

Transcript of George Edwards, Ph.D., Volume 2

Date: December 6, 2019

Case: American National Manufacturing Inc. -v- Sleep Number Corporation, et al. (PTAB)

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WORLDWIDE COURT REPORTING & LITIGATION TECHNOLOGY

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UNITED STATES PATENT AND TRADEMARK O ICE
                                                                                   APPEARANCES:
                                                                                       On Behalf of Petitioner:
                                                                                        SPENCER FANE LLP
500 Granite Parkway
           BE ORE THE PATENT TRIAL AND APPEAL BOARD
                                                                                       Suite 650
Plano, TX 75024
By: Jaspal S. Hare, Esq.
            AMERICAN NATIONAL MANU ACTURING, INC.,
                                                                                       On Behalf of Patent Owner:
                                                                                       FOX ROTHSCHILD, LLP
222 South Ninth Street
Suite 2000
Minneapolis, MN 55402
By: Luke Toft, Esq.
                           Petitioner
                               ٧.
                   SLEEP NUMBER CORPORATION
                                                                                       ALSO PRESENT: Joshua Phinney, Ph.D.
Kyle Stolis, Videographer
               f/k/a SELECT COM ORT CORPORATION,
                                                                               12
                         Patent Owner
                                                                               13
2
           Case IPR20 9 00497, Patent No. 8,769,747 Case IPR20 9 00500, Patent No. 9,737,54 Case IPR20 9 005 4, Patent No. 5,904,72
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                     VIDEOTAPED DEPOSITION
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                     GEORGE EDWARDS, Ph.D.
9
                 VOLUME II PAGES 306 467
20
                       December 6, 20 9
    Job No. 273575
22 Reported by: Amy L. Larson, RPR
                                                                                   INDEX:
                                                                                   EXAMINATION BY:
                                                                                   Mr. Hare.....3
   VIDEOTAPED DEPOSITION O GEORGE EDWARDS, Ph.D.,
                                                                                   EXHIBITS MARKED OR IDENTI ICATION:
                                                                                   taken on this 6th day of December, 20 9,
                                                                                   Original retained by Counsel
No Copy Provided
   commencing at approximately 8:57 a.m., at
   the law offices of ox Rothschild, LLP, 222 South
                                                                                   Ninth Street, Suite 2000, Minneapolis, Minnesota.
5
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	Conducted o	יוי דיי	cember 6, 2019
2	P R O C E E D I N G S	1 2	done anything to prepare for today's session? A. No.
3		3	Q. Okay. Did you look at any documents related
1	THE VIDEOGRAPHER: Good morning.	4	to this matter?
5	Here begins day 2 in the videotaped	1	A. No.
ŝ	deposition of Dr. George Edwards in the	5	
7	matter of American National Manufacturing,	6	, , , , ,
В	Incorporated vs. Sleep Number Corporation,	7	matter?
9	et al., in the United States Patent and	8	
0	Trademark Office before the Patent Trial and	9	Q. All right. I want to just clean up one
	Appeal Board, Case Numbers IPR20 9 00497,	10	0 thing. We may and it may or may not need
2	IPR20 9 00500, and IPR20 9 005 4.	1	1 cleanup, but we talked a lot about ANM
3	Today s date is riday,	12	2 products yesterday, right?
4	December 6th, 20 9. The time on the video	1.	3 A. Yes.
5	monitor is 8:58 a.m. The videographer today	12	4 Q. All right. In your report you make clear
6	is Kyle Stolis representing Planet Depos.	1:	
7	This video deposition is taking place at at	10	
8	the office of ox Rothschild, LLP, in	1	
9	Minneapolis, Minnesota.	18	-
20	Would counsel please voice identify	19	•
2	themselves and state whom they represent.	20	· ·
22	MR. HARE: Jaspal Hare with		
		2	1
		22	
	31	١.	MD HADE: Olean
_	Spencer ane representing petitioner		MR. HARE: Okay.
2	American National Manufacturing.	2	BY MR. HARE:
3	MR. TO T: Luke Toft,	3	Q. Would it be fair to say that in the context
5	ox Rothschild, representing Sleep Number	4	we re discussing the ANM products, our
6	Corporation.	5	discussion should be read in the context of
7	THE VIDEOGRAPHER: Thank you.	6	your report that if we re talking about a
3	The court reporter today is Amy Larson representing Planet Depos.	7	certain element infringing, we re talking
9	Would the reporter please swear in	8	about the ones you accuse, not necessarily
9	the witness.	9	every ANM product?
۰	the withess.	10	
2	GEORGE EDWARDS, Ph.D.,	1	3
3	a witness in the above entitled action,	12	1 10 111 0111 11 1111 11 1111 1111 1111 1111
4	after having been first duly sworn, was	11	
5	deposed and says as follows:	1.	-
6			_
7	EXAMINATION	1:	
	BY MR. HARE:	10	· · · · · · · · · · · · · · · · · · ·
9	Q. Good morning. So since we concluded the	1	C , 1
20	deposition, have you done anything to prepare	13	
2	for today s since we concluded the	19	9 regarding infringement with respect to any
22	deposition yesterday, the session, have you	20	O ANM product or source code.
_	, ,	2	1 BY MR. HARE:
		2	2 Q. So if we just, in my question, replaced

	Conducted on December 6, 2019		
	3 4	3 6	
1	infringement with meeting the elements, would	1 A. That	
2	that be a fair statement then?	2 MR. TOFT: Same objections.	
3	MR. TOFT: Same objections.	3 THE WITNESS: It is it is	
4	THE WITNESS: Can you can you	4 correct to say that I do not have opinions	
5	repeat the question with	5 regarding any ANM products that are not	
6	MR. HARE: Let me just try to	6 referred to in my report or any ANM source	
7	reread it.	7 code that s not referred to in my report.	
8	And, Counsel, I m going to warn you	8 BY MR. HARE:	
9	your objections are way out of line. We may	9 Q. Is there a reason you're not answering my	
10	need to have a call with the Board if this	10 questions? I looked over the rough, and this	
11	continues.	11 seems to be a continuing issue that you're	
12	MR. TOFT: I disagree. They re	12 answering your own questions, not mine.	
13	appropriate objections based on the	MR. TOFT: Object to the extent it	
14	questions, but we ll see.	14 mischaracterizes.	
15	MR. HARE: We may need to have a	15 THE WITNESS: I believe I just did	
16	call with the Board.	16 answer your question.	
17 E	BY MR. HARE:	17 BY MR. HARE:	
18 (Q. Would it be fair to say in the context we	18 Q. I believe you changed my question and	
19	were discussing when we were discussing	19 answered a slightly different question. Are	
20	ANM products yesterday, that that discussion	20 you doing that intentionally?	
21	should be read in the context of your report?	21 A. I'm doing my best to answer your questions.	
22	And by way of example, if we were talking	22 Q. Are you capable of answering my questions	
	3 5	3 7	
1	about certain elements, claim elements	1 correctly?	
2	meeting being met in the ANM products, we	2 MR. TOFT: Objection to form to	
3	were talking about the ones you accused, not	3 the extent it s harassment.	
4	necessarily all ANM products?	4 THE WITNESS: I my answer is	
5	MR. TOFT: Object to the extent it	5 the same, I m doing my best to answer your	
6	mischaracterizes testimony and to form.	6 questions.	
7	THE WITNESS: I think that s	7 BY MR. HARE:	
8	generally fair. The the opinions I ve	8 Q. Do you recall we talked about claim 1 of	
9	given are with respect to how the source code	9 the 747 yesterday?	
10	I analyzed meets the software-related	10 A. Yes, I do recall that.	
11	elements of claims of the patents at issue.	11 Q. Okay. And we also talked about certain	
12	MR. HARE: Okay.	12 elements of claim 1 and various portions of	
	BY MR. HARE:	13 the infringement contentions related to	
). I wasn't trying to make this really	14 claim 1, correct?	
15	complicated. You're not trying in	15 A. Yes, that's correct.	
16	yesterday s testimony, you're not trying to	16 Q. If those same elements appear in another	
17	accuse any extra products that you didn t	17 claim, would your analysis or testimony about	
18	accuse	18 those elements change?	
19	MR. TOFT: Same objections.	19 MR. TOFT: Object to form and to	
	BY MR. HARE:	20 the extent it calls for speculation and an	
) of meeting claim elements that aren t	•	
1	specified in your report, correct?	1 71	
22	specified in your report, correct?	22 MR. HARE: Again, Counsel, I find	

	Conducted on D	ecen	nber 6, 2019
	3 8		320
1	your objections, speaking objections and	1 Q	. Do you recall any any of those claims that
2	inappropriate.	2	are different? And in particular I'm talking
3	MR. TOFT: If you want to give a	3	about independent claims.
4	specific example, Jaspal, feel free to do so.	4 A	. Okay. That that does change the question.
5	But this is a very broad, generalized	5	I the example I was about to give was that
6	question, and I can t not object	6	some of the claims require an additive
7	MR. HARE: with speaking	7	pressure adjustment factor and some claims
8	objection and disrupting the deposition.	8	require a multiplicative pressure adjustment
9	Please answer the question.	9	factor, so that was the example I was
10	THE WITNESS: I think that where	10	thinking of of where there can be differences
11	claim elements of different claims are	11	in claims with respect to the pressure
12	identical, my the source code that I	12	adjustment factor.
13	identified as meeting those claims is the		. Okay. As far as the independent claims, you
14	same.	14	don't recall any differences?
15	In some cases there are slight		. I–
16	differences between claims and the wording of	16	MR. TOFT: I'm just going to
17	claim elements that are generally similar,	17	object to the extent it's he doesn't have
18	but not identical, and I would not be able to	18	them in front of him.
19	say make a blanket statement that there	19	THE WITNESS: I can't recall off
20	are no differences without reviewing the two	20	the top of my head whether there are any
21	claims side by side.	21	independent claims that have differences in
22	MR. HARE: Okay. Thank you.	22	wording with respect to the pressure
22	3 9	22	32
1 B	Y MR. HARE:	1	adjustment factor as compared to claim 1 of
1	. And I m just trying to save time with if	2	the 747, which I believe is the claim we
$\frac{1}{3}$	we need to go every single claim one by one	3	were looking at yesterday.
4	and do the same analysis, we can. But do you	4	MR. HARE: Okay.
5	want to take a quick look at the patents,	5	Can I could I ask the court
6	would that help? And I m just going to have	$\frac{1}{6}$	reporter to please hand the witness Edwards
7	one probably one or two questions of would	7	Exhibits 9 and 10, which are the 15 sorry,
8	your analysis of pressure adjustment	8	Edwards Exhibit 8 and 9, which is the 747
9	change sorry, pressure adjustment factor	9	patent and the 154 patent.
10	change?	10	THE COURT REPORTER: (Complies.)
11	MR. TOFT: Object to form.		Y MR. HARE:
12	THE WITNESS: There are		. My understanding is the stuff we discussed is
13	differences in the claims with respect to the	13	in all independent claims of the those two
14	pressure adjustment factor in some cases.	14	patents I just handed you. If you see
1	And where there are differences in the claim	15	anything significantly different than the
15			elements we discussed yesterday, can you
16	with respect to the pressure adjustment	16	· · · · · · · · · · · · · · · · · · ·
17	factor in some cases, I believe I identified	17	please let me know, in the independent
18	different code as meeting that claim element	18	claims?
19	when there are differences in the wording of		. Okay.
20	the claim element.	20	MR. TOFT: Object to form.
21	MR. HARE: Okay.	21	THE WITNESS: Just a moment,
22 B	Y MR. HARE:	22	please. (Reviews document.)

	Conducted on D	December 6, 2019
	322	324
1	So I think one one example I	1 that I do not see explicitly in claim 1 of
2	found of a different so far is that in	2 the '747.
3	claim independent claim 18 of the 154,	3 Q. Anything else?
4	claim element H refers to an updated pressure	4 A. There are, I think – I think there's at
5	adjustment factor. I don't believe that	5 least one independent claim that I did not
6	claim 1 of the 747 uses the phrase "updated	6 identify source code for in the infringement
7	pressure adjustment factor."	7 contentions. I believe
8 E	BY MR. HARE:	8 Q. Which one is that?
9 (So that s just something extra that claim	9 A. I believe it is independent — independent
10	requires, correct, that s more than claim 1,	10 claim 20 of the '154 is not included in the
11	correct?	11 infringement contentions, if I am remembering
12	MR. TOFT: Object to the extent it	12 correctly.
13	calls for a legal conclusion.	13 Again, I don't have the infringement
14	THE WITNESS: That is something	14 contentions in front of me at the moment, but
15	that claim 18 of the 154 requires that	my recollection is that independent claim 20
16	claim 1 of the 747 does not explicitly	16 of the '154 is not included in those
17	require.	17 infringement contentions.
18	Another difference that I see is	18 Q. You're not asserting an opinion that claim 20
19	that claim 1 of the 747 explicitly requires	19 meets sorry. Strike that.
20	an inflate pressure adjustment factor and a	20 You're not asserting an opinion that
21	deflate pressure adjustment factor. Claim 1	21 the ANM product any ANM product meets the
22	of the 154, as an example, does not use the	22 claim limitations of claim 20; is that
	323	325
1	phrases "inflate pressure adjustment factor"	1 correct?
2	and "deflate pressure adjustment factor," it	2 A. That is correct. At this time I'm not
3	uses the shorter and more general pressure	3 offering an opinion regarding the claims that
4	adjustment factor.	4 are not included in the infringement
5	MR. HARE: Okay.	5 contentions.
6 E	BY MR. HARE:	6 Q. Thank you.
7 (2. Anything else?	7 MR. HARE: Could I ask the court
8 A	A. Claim 12 of the '154 also includes a modified	8 reporter to please hand the witness Edwards
9	pressure adjustment factor. Claim 12 of	9 Exhibit 7. Those are the unredacted
10	the '154 also includes the limitation wherein	10 infringement contentions.
11	the manifold pressure target is calculated to	11 BY MR. HARE:
12	approximate the desired pressure set point	12 Q. Could you please confirm for me that claim 20
13	for the air chamber as modified by the	13 is not being
14	pressure adjustment factor to account for	14 THE COURT REPORTER: (Hands
15	differences between the sensing pressure and	15 document.) I'm sorry, can you restate that?
16	the manifold and sensing pressure in the air	16 I wasn't
17	chamber.	17 MR. HARE: Sorry.
18	So that clause is clearly related to	18 BY MR. HARE:
19	the pressure adjustment factor and explicitly	19 Q. Could you please confirm for me that the
20	refers to differences between sensing	20 claim 20 of the '154 patent is not being
21	pressure in the manifold and sensing pressure	21 asserted as meeting the claim elements of
22	in the air chamber, which again is something	22 for any ANM product?
	/ 1 NB 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

Conducted on I	December 6, 2019
326	328
1 A. Yes. Now with this in front of me, it	1 chamber, and I do not see the phrase
2 appears my recollection was correct —	2 "configured to more accurately account for
3 Q. Okay.	3 differences between sensing pressure in the
4 A. — that claim 20 is not included.	4 manifold and sensing pressure in the air
5 Q. Going back to my questions of any other	5 chamber" –
6 differences, did we finish the finish that	6 Q. Okay.
7 out?	7 A in claim 1
8 MR. TOFT: Object to form.	8 Q. Anything else?
9 BY MR. HARE:	9 A. – of the '747.
10 Q. And that question was referring to the	10 Q. All right. Any other claims?
11 difference between the discussion of claim 1	11 A. There is a slight difference in wording in
12 of the '174.	12 claim 18 of the '154 which recites
13 MR. TOFT: And I'll object to the	13 calculating an updated pressure adjustment
14 extent it calls for a legal conclusion.	14 factor based upon the adjustment factor
15 THE WITNESS: Those are the	15 error, whereas claim 1 of the '747 uses the
16 differences that I see right now regarding	16 word "modifying the pressure adjustment
17 the pressure adjustment factor specifically	17 factor based upon the adjustment factor
and limited to the independent claims.	18 error."
19 BY MR. HARE:	19 Q. Anything else?
20 Q. How about the differences for with respect	20 A. I just noticed another difference regarding
21 to the adjustment factor?	21 the pressure adjustment factor from the
MR. TOFT: Object to form.	22 previous –
327	329
1 BY MR. HARE:	1 Q. Go ahead and
2 Q. Did you understand my question? Same	2 A. – question that you were asking.
3 exercise, but with respect to the claim	3 Q. You can go ahead and tell me.
4 element adjustment factor.	4 A. Claim 10 of the '747 includes a limitation of
5 A. I understand that you're asking me what	5 storing the modified pressure adjustment
6 differences there are among the independent	6 factor, and I do not think that there is a
7 claims of the '747 and '154 with respect to	7 limitation of storing the modified pressure
8 the adjustment factor error?	8 adjustment factor in claim 1 —
9 Q. That's correct.	9 Q. Okay. Anything else?
10 MR. TOFT: And object to the	10 A. — of the '747.
11 extent it calls for a legal conclusion.	11 MR. TOFT: Object to form.
12 BY MR. HARE:	12 THE WITNESS: Claim 16 of the '747
13 Q. To be clear, I'm asking with respect to your	13 also uses the wording "calculating an updated
14 analysis.	14 pressure adjustment factor based upon the
15 A. So one difference that I see with claim 12 of	15 adjustment factor error," which is again,
16 the '154 is that claim 12 includes modifying	16 it's a slight difference in the wording from
17 the pressure adjustment factor based upon the	17 claim 1 of the '747.
18 pressure adjustment factor error to create a	18 MR. HARE: Okay.
19 modified pressure adjustment factor	19 BY MR. HARE:
20 configured to more accurately account for	20 Q. Anything else?
21 differences between sensing pressure in the	21 A. Those are the differences that I see right
22 manifold and sensing pressure in the air	22 now.

	Conducted on D	ece	ember 6, 2019
	330		332
1). All right. Thank you.		Q. And if you could just turn to the cover of
2	With the caveats you just noted,	2	Edwards Exhibit 8, which is the '747 patent.
3	would it be fair to say that the independent		A. (Complies.)
4	claims of the '747 and the '154 patent are		Q. And you can put the '154 to the side for now.
5	substantially similar with respect to the		A. (Complies.)
6	with respect at least to the elements	6	Q. Could you turn to Figure 1, please. It's the
7	pressure adjustment factor and error	7	second page, sir.
8	adjustment factor?	8	A. (Complies.)
9	MR. TOFT: Object to form and to	9	Q. Are you familiar with that diagram?
10	the extent I believe you mean adjustment	10	A. Yes.
11	factor error, if	11	Q. Do you understand that diagram?
12	MR. HARE: That's correct. I	12	A. I have some understanding of this diagram,
13	thought that's what I said, but	13	but my understanding is that this diagram
14 B	Y MR. HARE:	14	refers primarily to structural and mechanical
15 Q	. Would you like me to just read the question	15	elements.
16	back?	16	Q. I understand you may not understand Figure 1
17 A	. Sure. Yeah, I also think you misspoke there.	17	in the level of detail as an engineer, but do
18	I think you meant pressure adjustment factor	18	you understand Figure 1 at least as in the
19	error, so if you could state your question	19	level of simplicity that it's drawn in?
20	again.	20	MR. TOFT: Object to form.
21 Q	Let me see if I can clean those two things	21	THE WITNESS: I am familiar with
22	up.	22	it and have I have read and generally
	33		333
1	With the caveats you noted, would it	1	understand the description of it provided in
2	be fair to say that the independent claims of	2	the disclosure.
3	the 747 and the 154 patents are	3	MR. HARE: All right.
4	substantially similar with respect to the	4	BY MR. HARE:
5	elements pressure adjustment factor and	5	Q. So on Figure 1 you know where the bed is,
6	adjustment factor error?	6	right, you'd know where to sleep?
7	MR. TOFT: Object to form.	7	MR. TOFT: Object to form.
8	THE WITNESS: There are certainly	8	THE WITNESS: Yes, I believe I can
9	significant similarities with respect to	9	generally identify the bed in this diagram.
10	those claim terms.	10	MR. HARE: Okay.
11	MR. HARE: Can we take a 30-second	11	BY MR. HARE:
12	break.	12	Q. And you can identify a hand controller to
13	THE VIDEOGRAPHER: We re off the	13	adjust pressure, correct?
14	record at 9:31 a.m.	14	A. Yes, I believe I can.
15	(Recess.)	15	Q. You can identify the pump, correct?
16	THE VIDEOGRAPHER: We re back on		A. Yes, I believe I can.
17	the record at 9:32 a.m.		Q. You can identify a control box, correct?
	SY MR. HARE:		A. Yes, I believe so.
19 C). Could you do me a favor and hand Edwards		Q. What what number is the pump?
20	Exhibit 7, the contentions, back to the court		A. I believe the pump is number 20, and I'll
21	reporter, please.	21	just confirm that by checking the disclosure.
	a. (Complies.)	22	(Reviews document.) Yes. The in
	* * /		

Conducted on December 6, 2019		
334	336	
paragraph 3, I'm excuse me, column 3, the	1 A. (Complies.)	
2 pump is identified as item 20 in Figure 1.	2 Q. Do you see 14-A and 14-B, those are air	
3 Q. I'm going to would it be better if I just	3 chambers, correct, or air bladders?	
4 write pump next to it or would you prefer for	4 A. 14-A is identified as the first air chamber,	
5 me to just let you mark that exhibit?	5 and 14-B is identified as the second air	
6 A. Um	6 chamber.	
7 Q. Let me state that again.	7 Q. You see item 22, right?	
8 A. — if you want to write — write on here, I'm	8 A. Yes, I do.	
9 happy to hand this to you.	9 Q. That's the remote control, correct?	
10 Q. Sure.	10 A. Yes.	
11 A. (Hands document.)	11 Q. And that would be used to send commands to	
12 Q. I would like the record to reflect that I am	the pump to increase pressure or potentially	
writing the words "pump" next to 20.	13 decrease pressure, correct?	
14 I'd like the record to reflect I'm	14 MR. TOFT: Object to form.	
actually going to highlight the item by 20	15 THE WITNESS: What's stated is	
16 with blue highlighter.	16 that the remote control includes pressure	
MR. HARE: Would you like to see	increase and decrease buttons and allows the	
18 it, Counsel? (Indicating).	18 user to in increase or decrease the pressure.	
19 MR. TOFT: Okay.	The description that I see of	
20 BY MR. HARE:	20 element 22 of Figure 1 doesn't explicitly	
21 Q. I'm going to hand the exhibit back to the	21 refer to how it controls a pump directly in	
22 witness. (Hands document.)	22 the way that you stated.	
335	337	
1 Did I properly identify in blue	1 MR. HARE: Fair enough.	
2 highlighter the pump	2 BY MR. HARE:	
3 A. I believe so.	3 Q. Could you could you write it's a	
4 Q on that exhibit? All right.	4 handheld remote control, correct, 22? And	
5 And you can read my handwriting,	5 I'm looking at column 3, line	
6 correct?	6 A. It is referred to	
7 A. Yes, I can.	7 Q 46 about	
8 Q. All right. Number 12, that's the bed,	8 A. It is referred to as a handheld remote	
9 correct? If it's easier, you can flip	9 control in column 3.	
10 back	10 Q. Okay. That's it refers to that because	
11 A. That is	that's what it's supposed to be, correct?	
12 Q. Sorry. I was going to say you can use the	MR. TOFT: Object to the extent it	
other patent to flip back and forth.	13 calls for speculation.	
14 A. That is correct, in Figure 1, item 12 is	14 THE WITNESS: I I think that	
15 identified as the bed.	15 yes, that's what that's what it says in	
16 Q. Do you have clear handwriting if or as	16 column 3.	
17 clear as mine, do you think?	17 MR. HARE: All right.	
18 A. I believe I can write legibly, if that's what	18 BY MR. HARE:	
19 you're asking.	19 Q. Could you write "handheld remote control" by	
20 Q. Yeah. Could you write "bed" next to	20 22?	
21 Figure 12, please? I'm going to hand you a	21 A. (Complies.)	
22 red pen. (Hands pen.)	22 Q. Twenty-four is a control box, correct?	
22 Tod poli. (Talido poli.)	22 Q. I wonty-lour is a control box, contect:	

Conducted on December 6, 2019		
338	340	
1 A. Twenty-four is a control box.	1 figures?	
2 Q. Could you write "control box" by 24?	2 MR. TOFT: Object to form.	
3 A. (Complies.)	3 BY MR. HARE:	
4 Q. Could you turn your attention to	4 Q. Do you not understand that?	
5 approximately columns 3 and 4, and this may	5 MR. TOFT: Same.	
6 make it go a little faster, and I'm just	6 THE WITNESS: I understand that	
7 going to list some of the components in the	7 typically a disclosure can describe	
8 control box and confirm that that's what's in	8 alternative embodiments and alternative forms	
9 there. And it's approximately column 3	9 of an invention. So the inclusion of an	
10 starting at paragraph or line 44.	10 element in one figure does not necessarily	
The control box includes the power	11 mean that it is required in all forms or	
12 supply, correct?	12 embodiments that might be depicted in other	
13 A. (Reviews document.)	13 figures.	
MR. TOFT: Just to oh, sorry.	14 BY MR. HARE:	
15 THE WITNESS: I see I see that	15 Q. I m going to ask you a yes or no question,	
16 control box comprises power supply, which is	and if you can t answer it with a yes or no,	
17 element 34. And this is now referring to	17 just say I cannot answer it with a yes or no,	
18 Figure 2.	18 otherwise I don't want anything else. Am I	
19 BY MR. HARE:	19 clear?	
20 Q. Control box on Figure 1 that identifies 24	20 A. Okay.	
21 includes a power supply, correct?	21 Q. Do you understand the basic concept in	
22 A. I do not see the depiction of the power	patents that when the same numeral is used in	
339	34	
1 supply in Figure 1, if that's what you're	1 multiple figures, they refer to the same	
2 asking. Maybe I'm just not seeing it right	2 component?	
3 now.	3 A. I can't answer that with a yes or no.	
4 Q. It's not depicted in there, but it includes	4 Q. Again, I'm going to ask you a yes or no	
5 it, correct?	5 question. Please answer it with a yes or no	
6 A. The control box depicted in Figure 2 includes	6 answer or you cannot answer it.	
7 it. So to the extent that those are the same	7 Referring to the '747, the items,	
8 control box, then the control box in Figure 1	8 the pump 20 and the control box 24 strike	
9 would include it also.	9 that.	
10 Q. The control box depicted in Figure 2 is also	Referring to the '747, the control	
11 numbered 24, correct?	box 24 in Figure 1 is the same component as a	
12 A. Yes, it is.	12 control box in Figure 2, correct?	
13 Q. Okay. Figure 1 control box is 24, correct?	13 A. I can't answer that with a yes or no.	
14 A. Yes.	14 Q. Thank you. The pump reflected in Figure 1,	
15 Q. Those are the same component, correct?	15 is that depicted anywhere else in the figures	
16 A. Regarding the mechanical and structural	16 in the '747 patent? I believe Figure 2.	
17 elements, I that's not something that is	17 A. Figure 2 includes an element 20 that's	
18 incorporated in my –	18 identified as a pump.	
19 Q. You understand if you read a basic patent	19 Q. Okay. I'm going to do the same thing, I'm	
20 that one you when use the same number for	20 going to ask another yes or no question, same	
21 the same thing, they're the same thing	21 conditions, if you can't answer, just say so.	
22 whether they're in two two different	The pump depicted in Figure 1,	
22 Whether they to in two two different	1 no pump depicted in rigure 1,	

Transcript of George Edwards, Ph.D., Volume 2 Conducted on December 6, 2019

Conducted on D	December 6, 2019
342	344
1 number 20, is that the same component as	1 Q. What other options would you need other than
2 number 20 depicted in Figure 2 in the '747	2 yes, no, or I can't answer it with a yes or
3 patent?	3 no, other than giving your own narrative,
4 A. Both of them are pumps.	4 which I believe you're attempting to do here?
5 Q. But is it the same pump?	5 A. If you would like me to simply say that your
6 A. Not necessarily.	6 question is not a yes or no question, then I
7 Q. So back to my previous yes or no question you	7 am willing to do that.
8 answered without a yes or no, did you do that	8 Q. Okay. Well, I believe my instruction was you
9 on purpose?	9 cannot fairly answer it with a yes or no. I
10 A. I – I don't think that I'm required to	don't believe I'm asking you to tell me if my
11 answer questions with simply a yes or no. My	11 question is a yes or no. Is that fair?
12 understanding is that when you ask a	12 A. It depends on the question.
13 question, I am allowed to provide the answer	13 Q. So you're refusing to comply with my
14 that I think is the best answer to your	14 instruction?
15 question.	MR. TOFT: Objection to the extent
16 Q. I believe I'm conducting this deposition and	16 it calls for an incomplete hypothetical.
17 I my instruction was I believe fair,	17 THE WITNESS: No, I'm not refusing
answer it with a yes or no, or if you cannot	18 to comply with your instruction.
19 answer it with a yes or no, say so. You're	19 MR. HARE: Thank you.
20 not entitled to pour out a narrative of your	20 BY MR. HARE:
21 choosing at a deposition.	21 Q. So turning to the '747 patent, is the pump
22 A. I'm entitled to answer the questions.	depicted in Figure 1, number 20, the same
343	345
1 Q. In compliance with your oath.	1 component as number 20 depicted in Figure 2?
2 A. Correct, and that's what I'm doing.	2 Yes or no.
3 Q. And I find the way you're answering the	3 A. I don't believe I can completely answer that
4 questions isn't in compliance with your oath.	4 question with just a yes or a no.
5 So I'm going to ask my yes or no question	5 Q. Thank you. What information would you need,
6 again, and can you answer it with a yes or no	6 such as reading the patent more to be able to
7 or say you cannot answer it with a yes or no.	7 answer that question?
8 And if I want to ask more follow up, I will.	8 A. I do not believe that the mechanical and
9 And if I don't, I won't.	9 structural components of the invention fall
Do you understand?	10 within my area of expertise or the analysis
11 A. I understand that I'm going to answer your	11 that I performed.
12 question truthfully giving the answers that	12 Q. Okay. Thank you.
13 I-	Turning to Figure 2, and I'm going
14 Q. Are you refusing to comply with my	14 to draw your attention to to paragraph
15 instructions?	or column 3 around lines 45, "The pump 20
16 A. I'm re — I'm refusing to let you tell me	16 includes a motor 42, pump manifold 43, relief
17 what my answer should be.	17 valve 44, first control valve 45-A, second
18 Q. So are you refusing to comply with that	18 control valve" "control valve 45-B, and a
19 instruction to answer a yes or no question?	19 pressure transducer 46"; is that correct?
20 A. No.	20 A. That is what it says here.
21 Q. So you will comply with that instruction?	21 Q. Is that correct?
22 A. If appropriate and truthful.	22 MR. TOFT: Object to form.
	A. Control of the Con

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Conducted on December 6, 2019		
THE WITNESS: Is that correct that	348 1 THE COURT REPORTER: I'm sorry	
THE WITNESS: Is that correct that that's what it says?	THE COURT REPORTER. This only THE WITNESS: Let me finish my	
3 BY MR. HARE:	3 answer.	
4 Q. No, I'm asking is that what	4 THE COURT REPORTER: I can only	
5 A. Maybe I need you to repeat the question.	5 take one person at a time.	
6 Q is depicted in Figure 2?	6 THE WITNESS: I do not have formal	
7 MR. TOFT: Object to the extent	7 knowledge and training in mechanical	
8 it's outside the scope of the direct	8 engineering and, therefore, I am not offering	
9 testimony.	9 any expert opinions regarding mechanical and	
10 THE WITNESS: Yes, that is what is	10 structural elements.	
11 depicted in Figure 2.	11 MR. HARE: Okay.	
12 BY MR. HARE:	12 BY MR. HARE:	
13 Q. Would those components be present in the pump	13 Q. Did you offer an opinion regarding an element	
14 of Figure 1 as well?	14 determining an initial pressure within the	
15 A. They certainly could be.	15 housing?	
16 Q. Do you believe them to be?	16 A. Yes, I did.	
17 A. That is beyond the scope of my opinion,	17 Q. Are there structural elements in that	
	18 element?	
	122	
	19 A. Yes, but there are also software elements in	
20 Q. So are you refusing to answer my question?	20 it.	
21 A. I'm telling you that I cannot answer that 22 question with an expert opinion about	21 Q. Okay. But you were able to do provide an opinion on determining initial pressure	
22 question with an expert opinion about	<u> </u>	
1 mechanical elements, because I am a computer	1 within a pump housing?	
2 science software engineering and embedded	2 A. I offered an opinion on the software aspects	
3 systems expert, and you are asking me about	3 of that claim element.	
14 mechanical and structural elements of the	4 O. But not the hardware aspects?	
4 mechanical and structural elements of the invention, which I have stated again and	4 Q. But not the hardware aspects? 5 A. Not the mechanical elements, that's right.	
5 invention, which I have stated again and	5 A. Not the mechanical elements, that's right.	
5 invention, which I have stated again and 6 again are beyond my area of expertise and	5 A. Not the mechanical elements, that's right.6 Q. So you couldn't tell me where the pump	
5 invention, which I have stated again and 6 again are beyond my area of expertise and 7 beyond the opinions that I've offered.	 5 A. Not the mechanical elements, that's right. 6 Q. So you couldn't tell me where the pump 7 housing is; is that correct? 	
5 invention, which I have stated again and 6 again are beyond my area of expertise and 7 beyond the opinions that I've offered. 8 Q. They're also beyond your capabilities to	 5 A. Not the mechanical elements, that's right. 6 Q. So you couldn't tell me where the pump 7 housing is; is that correct? 8 MR. TOFT: Object to the extent it 	
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	Conducted on D	ec	ember 6, 2019
	350		352
1	the pressure sensor was not within the scope	1	Q. And if you turn to page 12.
2	of my analysis.	2	A. (Complies.)
3 B	Y MR. HARE:	3	Q. You discussed that you you state that,
4 Q	You can well, you can hang on to those.	4	"Certain versions of ANM software are
5	Could you turn your attention to	5	substantially similar to Sleep Number
6	and I d ask the court reporter to hand you	6	software," correct? And that's in bullet
7	Edwards Exhibit 3, please. You can give him	7	point 3.
8	the whole binder, I believe. And if you need	8	A. Yes, and there is an incorrect word that I
9	to look at any other exhibits in the binder,	9	used here in the — so I should put this
10	feel free.	10	
11	THE COURT REPORTER: (Hands	11	-
12	document.)	12	
13	MR. HARE: Do you guys want to	13	
14	take a break before we go on?	14	- · · · · · · · · · · · · · · · · · · ·
15	MR. TOFT: I m okay. It s up to	15	•
16	you.		Q. Okay. Duly noted.
17	THE WITNESS: I m fine to	17	
18	continue.	18	
19	MR. HARE: Okay. We re	19	*
20	probably this is going to be my last	20	•
1	thing, so it ll probably be an hour at most,	21	•
21	I think at most an hour.	22	* *
22		22	
1	MR. TOFT: I don't believe you	1	you mean by does it include the Sleep Number
2	have an hour left.	2	software.
3	MR. HARE: How much time is left	3	BY MR. HARE:
4	or how much time have we gone?	4	Q. Do you attach the Sleep Number software?
5	THE VIDEOGRAPHER: Today?	5	A. The – the Sleep Number software source code
6	MR. HARE: Yup.	6	is not attached to the report.
7	THE VIDEOGRAPHER: Today we have	7	Q. Did you make that decision not to attach it
8	gone just about an hour.	8	or to attach it
9	MR. HARE: And how much yesterday?	9	MR. TOFT: Objection.
1	THE VIDEOGRAPHER: Seven hours and	1	•
10		10	BY MR. HARE: Sorry, let me repnrase.
11	20 minutes.		
12	MR. HARE: Okay.		Q. Who made the decision whether or not to
13	MR. TOFT: Twenty-one minutes,	13	1
14	right?		A. I don't recall having a specific discussion
15	THE VIDEOGRAPHER: Twenty-one	15	· · · · · · · · · · · · · · · · · · ·
16	minutes.	16	
17	MR. HARE: All right. Well, we'll	17	
18	just finish it up then in 30 minutes or so.	18	·
1	Y MR. HARE:	19	e
1	. Could you turn to Edwards Exhibit 3, which is	20	•
21	your declaration, correct?		Q. Are you relying on Sleep Number source code
22 A	. That's right.	22	for your opinions in your report?

Conducted on December 6, 2019		
354	356	
1 A. I am relying on my inspection of that source	1 Do you did you identify any	
2 code.	2 variable names in your report or exhibits	
3 Q. Do you provide your analysis or thought	3 thereto with respect to any Sleep Number	
4 processes to support your opinion stated in	4 software products?	
5 bullet point 3 on page 12 of your	5 A. No.	
6 declaration?	6 Q. If you weren't provided source code with	
7 A. Yes, I believe I do.	7 respect to the ANM products, could you have	
8 Q. Where?	8 conducted your analysis that's in Edwards	
9 A. That is supported with the discussion in	9 Exhibit 7, which is the unredacted	
10 section 6 which discusses the Sleep Number	10 infringement contentions?	
11 software. And then bullet point number 3 is	11 A. No, that that analysis focused heavily on	
12 referring specifically to claims 12 and 16 of	12 the source code, so I could not have	
13 the '172 patent. So with respect to the ANM	13 conducted that analysis without the source	
14 software and source code, there – that	14 code.	
15 discussion is in section 7.	15 Q. So an end user of the product, he couldn't	
16 Q. So with respect to the Sleep Number side of	determine whether or not the claim elements	
the opinion, that's exclusively in paragraph	17 are being sorry, strike that.	
18 33, correct, the analysis to support the	An end user of the products could	
19 Sleep Number side?	19 not determine whether or not all the claim	
MR. TOFT: Object to the extent it	20 elements, for example, the '747, claim 1, are	
21 mischaracterizes.	21 being practiced by an ANM product?	
22 THE WITNESS: No, it's paragraphs	MR. TOFT: Object to form,	
355	357	
1 33 and 34.	1 incomplete hypothetical and speculation.	
2 MR. HARE: Okay.	2 THE WITNESS: I I think that as	
THE WITNESS: It's also referenced	3 I sit here right now, I would not know a way	
in paragraph 39, for example.	4 to conclusively determine whether all the	
5 BY MR. HARE:	5 claim elements of claim 1 were met without	
6 Q. Did you provide any charts or similar type of	6 access to the source code. I m not prepared	
analysis with respect to Sleep Number code or	7 to entirely rule out that possibility,	
8 products?	8 because it s something it s a question I	
9 A. I did not create any charts with respect to	9 hadn t considered until this moment.	
10 the Sleep Number software.	But as I sit here right now, the	
11 Q. Okay. Do you identify any source code files	11 source code seems like the the obvious way	
12 in your report or exhibits with respect to	12 that you would determine whether some of the	
13 any Sleep Number software?	13 claim elements are met.	
14 A. I did not identify any files by file name.	14 MR. HARE: Okay. Thank you.	
15 Q. Did you identify any function names in your	15 BY MR. HARE:	
16 report or exhibits thereto with respect to	16 Q. I m going to try to ask the same question and	
17 any Sleep Number software or products?	17 fix fix a couple of things in this	
18 A. I don't think that I did. I believe that the	18 question. It s going to be similar to	
19 infringement contentions refer to the	19 just the question I asked.	
20 Sleep Number products, but do not identify	20 So an end user of an ANM product	
21 specific functions.	21 using the ANM product wouldn't know whether	
22 Q. Thank you.	22 all the claim elements of, for example,	

Conducted on I	Conducted on December 6, 2019		
358	360		
1 claim 1 of the 474 patents are being	1 copying; is that correct?		
2 practiced, correct?	2 A. Section 9 does relate to copying, but is also		
3 MR. TOFT: Give me one second to	3 discussed in other places in the report.		
4 read this.	4 Q. Do		
5 Object to the extent it s an	5 A. And I need to also note the same correction		
6 incomplete hypothetical, calls for	6 that I noted earlier appears in paragraph 45,		
7 speculation. That s it.	7 first sentence, the phrase, "Sleep Number		
8 BY MR. HARE:	8 software that post dates patent" - "patent		
9 Q. And, actually, I m going to have to reread	9 issuance," should read, "Sleep Number		
10 the question, because I I think I messed	10 software that post dates patent filing."		
11 up the patent number.	11 Q. Thank you. Duly noted.		
An end user of an ANM product that s	12 A. And I'll also just note that those		
13 being that uses the code that practices	13 corrections were made in my supplemental		
14 one of these strike that.	14 declaration.		
15 So an end user of an ANM product	15 Q. Okay.		
using the ANM product wouldn't know whether	MR. HARE: Can we go off the		
all the claim elements of, for example,	17 record for 30 seconds.		
18 claim 1 of the 747 patent are being	18 THE VIDEOGRAPHER: We're off the		
19 practiced, correct?	19 record at 10:18 a.m.		
20 MR. TOFT: Object to the extent it	20 (Recess.)		
21 calls for speculation and is an incomplete	21 THE VIDEOGRAPHER: And we are back		
22 hypothetical.	on the record at 10:22 a.m.		
359	36		
1 THE WITNESS: I agree that simply	1 BY MR. HARE:		
2 using an ANM product is would not provide	2 Q. We were focusing on the copying opinions		
3 sufficient information to conclusively	3 sorry, strike that.		
4 determine whether all the claim elements are	4 Just to get back to where we were,		
5 met.	5 could I draw your attention to your copying		
6 MR. HARE: Thank you.	6 opinions in your report?		
7 BY MR. HARE:	7 A. Okay.		
8 Q. You provide an opinion regarding copying,	8 Q. Do you provide any kind of comparison, like a		
9 correct?	9 side-by-side chart comparing ANM products or		
10 A. Yes.	10 ANM code to Sleep Number products or		
11 Q. Could you just turn to that section of your	11 Sleep Number code?		
12 report.	12 A. Not in the form of a side-by-side chart.		
13 I'm just going to read the last two	13 Q. Okay. I'm going to just rephrase that		
14 questions over again, because I didn't have	14 question.		
15 my mic on.	In support of your copying opinions,		
16 You provide an opinion regarding	do you provide a comparison of ANM products		
17 copying, correct?	or ANM code to Sleep Number products or		
18 A. Yes.	18 Sleep Number code?		
19 Q. And could you turn to that section of your	19 A. Yes.		
20 report.	20 Q. Where is that?		
21 A. Which section are you referring to?	21 A. So, for example, paragraph 39, for example,		
22 Q. I believe it's section 9 relates to the	22 talks about the similarities.		
22 V. 1 cone to it a accitoff a foldier to the	wind about the difficulties.		

Conducted on D	December 6, 2019
362	364
1 Q. Anything else?	opinions regarding copying, correct?
2 A. Paragraph 45 identifies the aspects in which	2 MR. TOFT: Same objection.
3 they're similar. And this is also referred	3 THE WITNESS: Well, I think the
4 to in paragraphs 48 and 49, for example.	4 the report itself is the work product that
5 Q. Anything else?	5 describes the findings for my inspection of
6 A. Paragraph 50, 51, 52, and then it's kind of	6 that code.
7 summarized at the end of paragraph 54.	7 BY MR. HARE:
8 Q. Okay. As far as strike that.	8 Q. Other than the report itself, which is your
9 Other than the paragraphs you	9 declaration, is there any other work product?
10 just to let you know, I'm just going to ask	10 MR. TOFT: Object to form.
11 that question again, because it looks like	11 THE WITNESS: Aside from the
12 there's a typo in it or I misspoke.	declaration and the exhibits and materials
Other than the paragraph you just	13 referenced, there s no other work product
14 listed, is there anything else that supports	14 that I am relying on.
15 your opinions regarding copying?	15 BY MR. HARE:
16 A. Yes, there is.	16 Q. In support of the the copying opinions,
17 Q. What's that?	17 you don't provide any kind of side-by-side
18 A. The other things that support that opinion	18 comparison of ANM products, ANM code or
19 are the – Sleep Number's contentions, as	19 Sleep Number products or Sleep Number code,
20 well as the Sleep Number source code, the ANM	1 1
21 source code, and the documents that are	21 MR. TOFT: Object to the extent it
22 referenced in my declaration that identify	22 mischaracterizes and to form.
363	365
1 the timeline when products were released and	1 THE WITNESS: I m not sure exactly
2 the versions of source code that were	2 what you mean by side-by-side. I compared
3 incorporated into different products, that -	3 the two software programs with respect to
4 Q. You don't provide any Sleep Number source	4 their functionality. I did not do a a
5 code to support your copying contentions,	5 diffing analysis, which is what I would think
6 correct?	of as a side-by-side analysis, because it was
7 A. I'm not sure what you mean by I didn't	7 not an appropriate analysis in this in
8 provide it. I –	8 this context.
9 Q. I'll rephrase it.	9 BY MR. HARE:
10 A. Sleep Number provides the code, I analyze the	10 Q. In support of your copying opinions, your
11 code.	11 report and exhibits don't cite any
12 Q. You don't rely on any Sleep Number code to	12 Sleep Number source code, correct?
support your opinions regarding copying,	MR. TOFT: Object to the extent it
14 correct?	14 mischaracterizes.
MR. TOFT: Object to the extent it	15 THE WITNESS: It cites to the
16 mischaracterizes.	16 source code generally and the the
17 THE WITNESS: No, that's not	17 different folders of source code that were
18 correct.	18 produced. It does not cite to specific files
19 BY MR. HARE:	19 within those folders.
20 Q. Your report or any exhibits thereto don't	20 BY MR. HARE:
21 provide any kind of work product analyzing	21 Q. And it doesn't cite to any specific line
22 the Sleep Number code to support your	22 numbers or variable names or function names,

Conducted on D	Conducted on December 6, 2019			
366	368			
1 correct?	1 you the source code itself?			
2 MR. TOFT: Object to form.	2 A. Yes, I do.			
THE WITNESS: That's correct.	3 Q. And do you recall yesterday			
4 MR. HARE: Okay. Thank you. I	4 MR. HARE: Objection; form.			
5 I believe I m done, but if you want to start	5 BY MR. TOFT:			
6 prepping, I ll just double check.	6 Q when counsel asked you questions about			
7 MR. TOFT: Okay.	7 Sleep Number's contentions related to the			
8 MR. HARE: Can we go off the	8 source code without showing you those			
9 record, please.	9 contentions?			
THE VIDEOGRAPHER: We re off the	10 MR. HARE: Objection; form.			
11 record at 10:32 a.m.	11 THE WITNESS: Yes, I do.			
12 (Recess.)	MR. TOFT: What is your objection?			
THE VIDEOGRAPHER: And we re back	MR. HARE: You're not specific as			
14 on the record at 10:35 a.m.	14 to what you're talking about.			
MR. HARE: Thank you, Dr. Edwards,	MR. TOFT: In what regard?			
16 I have no further questions at this time.	MR. HARE: So for both those			
17 I ll pass the witness.	objections, you're talking generally about			
MR. TOFT: And I d like to go off	18 some testimony, you haven t laid a foundation			
19 the record.	19 specifically for what which part of the			
THE VIDEOGRAPHER: We re off the	20 conversation you're talking about or if any			
21 record at 10:35 a.m.	21 particular particular question.			
22 (Lunch recess.)	22 BY MR. TOFT:			
THE VIDEOGRAPHER: And we re back	369			
on the record at 12:16 p.m. MR. HARE: Before we start, I d	2 counsel asked you questions about the line 3 numbers and functions of source code with			
<u>'</u>	4 respect to the ANM source code that you			
like to make a note on the record. We agreed to a 45-minute break. We think now over an				
6 hour and a half of coaching the witness is	analyzed in this proceeding without showing you the source code itself?			
7 excessive and too far. Go ahead.	7 MR. HARE: Objection; form.			
8 MR. TOFT: I we agreed to take	8 Objection; foundation.			
9 a break so that I could prepare for my	9 THE WITNESS: Yes, I recall that.			
10 redirect. I apologize if it went longer than	10 BY MR. TOFT:			
11 I initially anticipated, but I let you know	11 Q. And do you recall yesterday when counsel			
12 that I would be taking longer, and I believe	12 asked you questions about Sleep Number s			
13 I m entitled to as much time as I need to	13 infringement contentions, which are the			
14 prepare.	14 contentions that are referenced in your			
15 With that said, I will proceed.	15 declaration, without showing you those the			
16 With that said, I will proceed.	16 unredacted contentions?			
17 EXAMINATION	17 MR. HARE: Objection; form.			
18 BY MR. TOFT:	18 Objection; foundation.			
19 Q. Good afternoon, Dr. Edwards.	19 THE WITNESS: Yes, I recall			
20 Do you recall yesterday when counsel	20 receiving questions about those contentions			
21 asked you questions about the line numbers	21 while I was not able to look at the			
22 and functions of source code without showing	22 contentions.			
22 and functions of source code without showing	ZZ COMUNICION.			

Conducted on December 6, 2019			
370	372		
1 BY MR. TOFT:	1 confirm the correctness of my answers rather		
2 Q. And there was a indeed, you didnt have a	2 than going based only on my recollections.		
3 single exhibit in front of you for several	3 But as I sit here today, I believe all my		
4 hours; is that your recollection?	4 answers were correct, and so I do not wish to		
5 MR. HARE: Objection; leading.	5 change any of them.		
6 Objection; form. Objection; foundation.	6 BY MR. TOFT:		
7 MR. TOFT: I m just laying	7 Q. And how, if at all, would your testimony have		
8 foundation.	8 changed if you had been given the unredacted		
9 THE WITNESS: I I recall being	9 infringement contentions, I believe that was		
10 questioned for numerous hours yesterday	10 marked as Exhibit 1 and 7, in front of you		
11 without any documents to use to answer those	11 during your testimony yesterday?		
12 questions.	12 MR. HARE: Objection; form.		
13 BY MR. TOFT:	13 Objection; foundation.		
14 Q. How, if at all, would your testimony have	14 THE WITNESS: I think I would say		
15 changed if you had the actual printed source	15 that give the same answer. My testimony		
16 code that you analyzed of ANMs in front of	16 would not change, because I believe all the		
17 you for that testimony?	17 answers that I gave were correct. Having the		
18 MR. HARE: Objection; form.	document in front of me is helpful to confirm		
19 Objection; foundation.	19 that my answers are correct. But, again, as		
20 THE WITNESS: I	20 I as I sit here now, I don t know of any		
21 MR. TOFT: I m sorry, let me	21 testimony that I would give differently.		
22 just what is your objection to form?	22 MR. TOFT: Okay.		
37	373		
1 MR. HARE: You're not specific as	1 BY MR. TOFT:		
2 to what testimony you're talking about,	2 Q. Would having the source code in front of you		
you're covering a whole	allowed you to be more specific in answering		
4 MR. TOFT: He has already	4 any of the questions that you were asked?		
5 testified that he remembers the the	5 A. Yes.		
6 testimony.	6 MR. HARE: Objection; leading.		
7 MR. HARE: Okay. I dont believe	7 THE WITNESS: I think that it s		
8 it's clear. Merely because he remembers it,	8 difficult for me as I sit here right now to		
9 it s not clear on the record what we re	9 remember every question that was asked, but		
10 talking about.	10 certainly the source code is the fundamental		
11 BY MR. TOFT:	11 basis for much of the analysis that I did.		
12 Q. How, if at all, would your testimony related	12 And so having that available to look at when		
to ANM source code have changed if you had	answering questions about it, is helpful and		
14 the actual printed source code from ANM that	14 allows for the greatest degree of certainty		
15 you analyzed in this proceeding in front of	15 and specificity.		
16 you?	16 MR. TOFT: Okay.		
MR. HARE: Objection; form.	17 MR. HARE: I m also going to		
18 Objection; foundation.	object to the answer to the extent a		
THE WITNESS: I don't believe that	19 narrative was provided in response to a yes		
20 any of my answers would have changed. If I	20 or no question. And to the extent the form		
21 had had the source code in front of me, I	21 was unclear of the question, objection to		
22 would have simply been able to further	22 form to the previous question.		

	Conducted on December 6, 2019		
	374		376
1	MR. TOFT: Jaspal, if you agree it	1	whether there - it has achieved success in
2	was a yes or no question, then it s not a	2	the marketplace, whether it has technical
3	leading question, so I would appreciate it if	3	value, and those are the – the ones that I
4	you would make only appropriate objections in	4	can think of.
5	the future.	5	Q. Okay. And I believe this is it's already
6	MR. HARE: I don t know if that	6	in front of you. Can I have you open up your
7	makes any sense. And the way you conducted	7	Exhibit 3, Deposition Exhibit 3, which I
8	your objections during the cross was	8	believe is your declaration in the '154
9	absolutely inappropriate and it s not even	9	proceeding.
10	close to what you were doing.	10	A. (Complies.)
11	MR. TOFT: I disagree. And feel	11	MR. HARE: If you could just give
12	free to make appropriate objections in the	12	me a second to get there too.
13	future, but I m going to continue with the	13	MR. TOFT: Well, now I have lost
14	redirect.	14	my Exhibit 3.
15	MR. HARE: My objections are	15	
16 B	SY MR. TOFT:	16	you're saying Edwards Exhibit 3, correct?
17 Q). You were asked	17	MR. TOFT: Edwards depo Exhibit 3.
18	MR. HARE: Go ahead.	18	Okay. I will pull it up.
19 B	SY MR. TOFT:	19	BY MR. TOFT:
20 Ç). You asked several questions yesterday about	20	Q. And can I have you turn to I believe it's
21	your analysis regarding the how ANMs	21	paragraph 29, but let me just confirm.
22	products that practiced the versions of	22	Bullet point 2 is an opinion that
	375	Т	377
1	source code that you analyzed read on the	1	you've offered in this case, correct?
2	functionality of various claims of the	2	MR. HARE: Objection to form.
3	patents.	3	THE WITNESS: Yes, that s correct.
4	Do you remember that?	4	BY MR. TOFT:
5	MR. HARE: Objection to form.	5	Q. And is that opinion do you still hold that
6	THE WITNESS: Yes, I	6	opinion?
7	MR. HARE: Objection; foundation.	7	A. Yes, I do.
8	THE WITNESS: Yes, I do recall	8	Q. Counsel also asked you about copying. I
9	that.	9	believe bullet point can you identify the
	Y MR. TOFT:	10	bullet points in paragraph 29 that relate to
11 Q	2. And you were also asked if you had an	11	
12	understanding of secondary considerations?	12	A. Sure.
	. Yes, I recall that as well.	13	ÿ
14 Q	2. What is that understanding? What is your	14	
15	understanding of secondary considerations?	15	· · · · · · · · · · · · · · · · · · ·
16 A	. My understanding is that there are certain	16	
17	considerations that may be considered in	17	•
18	determining obviousness of an invention or a	18	
19	claim that are termed secondary	19	•
20	considerations, and those secondary	20	And the bullet the fourth bullet
21	considerations include things such as whether	21	point also relates to that for the same
22	an invention or product has been copied,	22	reasons.

	Conducted on D	ece:	mber 6, 2019
	378		380
1	The fifth bullet point, which is now	1	conclusions and findings associated with it.
2	on page 13 of my declaration, also relates to	2	So it would be helpful if you could
3	that.	3	clarify your question with respect to
4 E	BY MR. TOFT:	4 I	BY MR. TOFT:
5 (2. And you say that the the software versions	5 (Q. So let me break this down. How did you
6	that you analyzed have substantial	6	MR. HARE: Just a second. Give me
7	similarities. How did you determine whether	7	a second to look over this answer.
8	or not one version of source code that you	8	I m going to object on the scope as
9	looked at was similar to another version of	9	well to that question. Go ahead.
10	source code?	101	BY MR. TOFT:
11	MR. HARE: Objection to form.	110	Q. So let me break down your answer there. How
12	Objection; foundation.	12	did you determine whether or not there was
13	MR. TOFT: What are your	13	any similarities between version 1.8 and
14	foundation objections?	14	version 1.97?
15	MR. HARE: There s no foundation		A. The way
16	for what version of source code you're	16	MR. HARE: Objection; scope.
17	talking about.	17	THE WITNESS: The way that that
	BY MR. TOFT:	18	was done was during my inspections of ANM
	2. Dr. Edwards, how did you determine any	19	source code it which I had access to
20	similarities between ANM's source code that	20	electronic copies of all of the source code
	you analyzed?	21	on a computer with various source code
21	A. So	22	analysis tools.
ZZ F	379	22	38
1	MR. HARE: Objection to form.	1	In particular, one of the tools that
2	THE WITNESS: regarding the	2	I requested and was made available to me
3	regarding similarities between different	3	during that inspection is known as a diffing
4	versions, I think it s helpful to be precise	4	tool. This is a tool that allows you to
5	about what we re talking about. So there is	5	select different files or folders and it will
6	a portion of the declaration that discusses	6	automatically compare those files and folders
7	similarities among versions of ANM's source	7	and show you the places within the files and
8	code, meaning similarities between one	8	folders that have changed and the places that
9	version of ANM source code to another version	9	are the same.
	of ANM source code.		
10		10	So using that tool, I was able to do
11	For example, I noted that there was	11	comparisons of the different versions of
12	a high degree of similarity between ANM s	12	ANM's source code and determine that there
13	versions 1.8, 1.97 and 2.0, and there was	13	was a high degree of similarity between, for
14	also a high degree of similarity between	14	example, version 1.8 and version 1.97.
15	version 1.9 and 1.92. So that is one		BY MR. TOFT:
16	analysis of version similarity that is		Q. Did you use that same methodology to
17	described in the declaration.	17	determine any differences and similarities
18	Separately from that, there was an	18	between 1.8 and 2.0?
19	analysis of the degree of similarity between		A. Yes, I did.
20	versions of Sleep Number's software and ANM's	20	MR. HARE: Objection; leading.
21	software that was based on a slightly	21 I	BY MR. TOFT:
	1:00	1000	

22

different type of analysis and had different

22 Q. And did you use that same methodology for any

Conducted on December 6, 2019			
382	384		
similarities between 1.97 and 2.0?	1 MR. HARE: Objection; foundation.		
2 A. Yes, I did.	2 THE WITNESS: It s a tool that s		
3 MR. HARE: Objection; leading.	3 very commonly used both in academia and in		
4 BY MR. TOFT:	4 industry. It's been used reliably for for		
5 Q. And how did you determine whether or not	5 many, many years. It s a I guess one		
6 there were any differences between any of	6 example of a type of static analysis, which		
7 those versions of source code, versions 1.8,	7 is what is described in my declaration as the		
8 1.97 and 2.0, to version 1.9, for instance?	8 analysis method that was applied in this		
9 MR. HARE: Objection; scope.	9 in this case.		
10 THE WITNESS: So the the same	MR. HARE: I m also going to		
11 process was followed. What I recall doing	11 object on form to that previous question		
12 was these pair-wise comparisons across, you	12 BY MR. TOFT:		
13 know, the various pairs of versions that were	13 Q. And did you		
14 provided for inspection.	MR. HARE: and scope.		
So I think this is this is over a	15 BY MR. TOFT:		
16 year ago, but my what I recall doing and	16 Q. And did you reliably apply the diffing		
what my normal process would be would be to,	analysis to the source code in this case?		
18 you know, compare 1.8 to 1.9, 1.9 to 1.92,	MR. HARE: Objection; leading.		
19 et cetera, and then start doing some	19 Objection; scope. Objection; foundation.		
20 comparisons of of the other versions that	20 THE WITNESS: I believe I did. I		
21 are, you know, further apart in time or in	21 essentially, you know, systematically went		
22 numbering to get a sense of which versions	22 through and compared did pair-wise		
383	385		
look the same, which look different, what are	1 comparisons between these different versions,		
2 the significant aspects of the code that have	and I believe that to be a reliable method.		
3 changed from one version to the next.	3 BY MR. TOFT:		
4 That's the general process that I	4 Q. And what differences, if any, were there		
5 I used in comparing all those versions of	5 between the different versions of ANM code		
6 code.	6 that you analyzed?		
7 BY MR. TOFT:	7 MR. HARE: Objection; scope.		
8 Q. And you mentioned this diffing analysis. Is	8 Objection; foundation.		
9 that a was there sufficient data, source	9 MR. TOFT: What is your objection		
10 code for you to be able to perform the	10 to scope?		
11 diffing analysis?	MR. HARE: We didn't ever talk		
MR. HARE: Objection; leading.	12 about the differences between the ANM code in		
THE WITNESS: With respect to the	13 the manner you are.		
14 ANM versions that are referenced in my	MR. TOFT: You discussed that		
declaration, yes, there was sufficient source	15 he you asked him questions about the		
16 code, what appeared to be to be substantially	16 different ANM code that he analyzed and you		
17 complete source code for those products, so,	pointed that out in the declaration.		
18 yes.	MR. HARE: I don't believe in the		
19 BY MR. TOFT:	manner you are asking questions or the scope		
20 Q. And is diffing a tool that is considered	20 of your questions. We asked questions about		
21 reliable in the art of source code?	21 certain certain versions and certain parts		
22 A. Yes, it	22 of his declaration. You're going into the		
——————————————————————————————————————	<u> </u>		

	Conducted on December 6, 2019			
	386		388	
1	differences between, I believe actually, code	1	extent you deem it necessary after my	
2	that s not even accused or we even discussed	2	question so that we can proceed in an orderly	
3	yesterday or today during cross.	3	fashion?	
4	MR. TOFT: Which code was not	4	MR. HARE: I m not doing it to	
5	discussed yesterday?	5	every question. If you dont ask	
6	MR. HARE: I don't believe we	6	objectionable questions, I wont have to.	
7	discussed 1.9.	7	MR. TOFT: Please object after my	
8	MR. TOFT: At all?	8	question.	
9	MR. HARE: I don't believe we did.	9	MR. HARE: And certain of your	
10	MR. TOFT: Okay. Your objection	10	questions, it s because the answer, he	
11	is noted. I will reask my question.	11	provides a narrative that s not even	
12 B	Y MR. TOFT:	12	MR. TOFT: I m not asking for an	
13 Q	. What differences, if any, were there between	13	explanation, I m just asking you to stop	
14	the different versions of ANM code that you	14	disrupting.	
15	analyzed in this proceeding?		Y MR. TOFT:	
	Well		. And this difference that you identified in	
17	MR. HARE: Again, same objections.	17	the 1.9, did you identify any differences in	
18	THE WITNESS: I those	18	any other versions of code?	
19	differences are stated in starting around	19	MR. HARE: Objection; leading.	
20	paragraph 47 of my declaration. And so	20	Objection; scope.	
21	what what I found is that version 1.9 and	21	THE WITNESS: Yes. So what that	
22	1.92 do not incorporate the software-based	22	showed me was that those the modifications	
	387	-	389	
1 c	ontrol functions of the 154 and 747	1	that I described took place between	
	atents that are necessary to implement what	2	version 1.8 and 1.9, were also present in	
_	referred to in my declaration as the	3	version 1.92.	
	mproved target pressure system.	4	In other words, version 1.92 also	
5	In other words, they did they	5	did not have the software control functions	
	ere the code had been modified between	6	disclosed in the 154 and 747 patents, and	
	ersion 1.8 and 1.9, modifications were made	7	is similar to version 1.9 in that respect,	
	the code to remove necessary logic for the	8	then those when we look at version 1.97,	
	mproved target pressure system, namely,	9	those that those control functions are	
	ogic that uses an adjustment pressure	10	reincorporated back into the code.	
	djustment factor to allow the system to	11	In other words, it looks like that	
	each a desired pressure more quickly and	12	the changes that were implemented when moving	
			to version 1.9 were reverted or undone such	
	rith less turning on and off of the motor to	13		
	each that target pressure.	14	that version 1.97 is highly similar to version 1.8. And the same can be said of	
15	MR. HARE: Just to be clear, I	15		
	ink I believe I said same objections. I	16	version 2.0, it is also similar to versions	
	rant to be clear my objections are	17	1.97 and 1.8 in that respect.	
	oundation, form and scope.		Y MR. TOFT:	
19	MR. TOFT: Jaspal, if you're going	1	. Are there differences between versions 1.8	
	o object after every question and every	20	and 1.97?	
	nswer, this is starting to get very		. There are	
[22 d:	isruptive. Can you please object to the	22	MR. HARE: Objection; scope.	

Conducted on December 6, 2019		
390	392	
1 THE WITNESS: There are other	1 in the code, the foreign language comments,	
2 differences, but those differences are more	2 that is, would you have been able to would	
3 superficial in nature and not directly	3 that have affected your analysis?	
4 relevant to any of the opinions that I ve	4 MR. HARE: Objection; leading.	
5 offered in this declaration.	5 THE WITNESS: No, that wouldn t	
6 BY MR. TOFT:	6 have affected my analysis. I m not able to	
7 Q. Are there differences between versions 1.8	7 read the foreign language comments anyway.	
8 and 2.0?	8 In the case where comments are in English,	
9 MR. HARE: Objection; scope.	9 again, that that doesn't affect my	
10 THE WITNESS: It's the same	analysis, because source code comments do not	
11 same thing I just said is is true again,	11 have any impact on the behavior of the	
12 yes, there are some other changes that were	12 program.	
13 made to the the source code.	They are notations made by a	
14 For example, I think one that we	14 programmer to add text within the program	
discussed yesterday was that comments that	15 that can be read by other programmers, but	
16 had previously been written in a foreign	16 they are ignored by the computer when the	
language, in many cases had been rewritten in	17 source code is actually executed.	
18 English. But there were also changes to the	18 And in particular, the my	
19 source code itself. However, many of those	19 declaration gave a had a little background	
20 changes again are more super either	20 section talking about the process of	
21 superficial in nature or were just not	21 compilation, and when the when source code	
22 changes that had some material relation or	22 is piled into object code, the comments are	
39	393	
1 impact to the to the opinions that I	1 removed from that, so my my analysis is	
2 provided in my declaration.	2 based on what the actual source code does and	
3 MR. TOFT: Okay.	3 not what it says in the comments.	
4 BY MR. TOFT:	4 BY MR. TOFT:	
5 Q. And were there any differences between the	5 Q. And were any of the comments necessary to	
6 1.9 and 1.92 that you noted that would impact	6 perform your analysis?	
7 your opinion?	7 MR. HARE: Objection; leading.	
8 MR. HARE: Objection; scope.	8 THE WITNESS: For the for the	
9 THE WITNESS: There my	9 same reason, I would say no, they re not	
10 recollection is that the the two those	10 necessary to the analysis.	
11 two versions are not identical, but the	11 BY MR. TOFT:	
12 answer to your question would be no, the	12 Q. Can I have you turn to section 9 of your	
differences between 1.9 and 1.92 were not	13 declaration?	
material to the opinions that I offered in	14 A. (Complies.) Okay.	
15 this declaration.	15 Q. Did you what is your opinion that is	
16 BY MR. TOFT:	16 expressed in section 9?	
17 Q. You just mentioned the testimony yesterday	MR. HARE: Objection to form.	
18 about a comments foreign language	18 THE WITNESS: The key opinions	
19 comments, and I believe you said some of them	19 that are expressed in section 9 relate to the	
20 were translated to English; is that right?	20 important changes that occurred in ANM s	
21 A. Yes.	21 source code and the timing of those changes	
22 Q. Would if those comments were not present	22 and how those changes relate to the 154	

Transcript of George Edwards, Ph.D., Volume 2 Conducted on December 6, 2019

Conducted on December 6, 2019			
394	396		
and 747 patents.	1 and industry for for many years in which I		
So, for example, it was it s my	2 know that the normal process of software		
3 opinion stated in paragraph 48 that version	3 development is that successive versions of		
4 1.8 reads on the claims of the 154 and 747	4 software add and improve on functionality		
5 patents, and for that reason has a high	5 that was in previous versions. There are		
6 degree of similarity with the Sleep Number	6 generally new features are added, bugs and		
7 software that I inspected with the exception	7 flaws in the software are removed and the		
8 of one very early version that s I	8 software evolves over time in a way that its		
9 referred to as the Winland code in the	9 overall quality improves.		
10 earlier section talking about the the	10 It is unusual for a software product		
11 Sleep Number software. So that was one of	11 at a later version to undo or revert changes		
12 the key opinions.	12 that were made in the prior versions and		
I also provided an opinion that	13 essentially go back to something that existed		
14 those changes appear to be what I called a	14 longer before that.		
15 step backwards from a design perspective,	15 The the I would say the		
16 because they don't allow the system to	16 typical reason that that happens, in my		
17 achieve a target pressure with the same speed	17 experience, is that there was some kind of a		
18 and convenience as the source code of	18 problem or issue that was created by some		
19 version 1.8.	19 changes that were made and, therefore, those		
20 And if you give me just a moment,	20 changes needed to be undone because there was		
21 let me see if there s any other key opinions	21 a realization made that those that those		
22 expressed in section 9. (Reviews document.)	22 changes were not beneficial and, therefore,		
395	397		
So I guess the the only other	the engineers decided to undo those changes.		
2 thing that I would mention that s an	2 That's based on my experience why		
3 important opinion in section 9 is the final	3 software versions are reverted. And so that,		
4 sentence of paragraph 53, which states	4 I think, is circumstantial evidence that that		
5 that my opinion that the ANM s reversion	5 is what has occurred in this case, and that		
6 to a prior version of the source code after	6 the changes that were made between version		
having removed the improved target control	7 1.8 and 1.9 were later determined to be not		
8 system functionality, I think is evidence	8 beneficial and perhaps even harmful in some		
9 that that functionality had a technical	9 sense.		
10 benefit or solved the problem.	10 BY MR. TOFT:		
11 BY MR. TOFT:	11 Q. Is it your opinion that version 1.8 has		
12 Q. What is your basis for your opinion that it	benefits that 1.9 does not?		
13 had a sorry, let me that ANM s	13 MR. HARE: Objection; leading.		
14 reversion is evidence of a technical benefit,	14 Objection; scope.		
15 or has technical value, as you state here in	15 THE WITNESS: Yes, that s what		
16 paragraph 53?	16 that s what my my declaration says, that		
MR. HARE: Objection; scope. And	17 version 1.8 has the software control		
18 objection, leading.	18 functions disclosed in the 154 and 747		
THE WITNESS: My basis for that is	19 patents, and for that reason, it provides the		
20 my knowledge and experience as a software	20 feature of an improved target pressure		
21 engineer generally and my work in the	21 system, what I what I referred to as an		
22 software engineering community in academia	22 improved target pressure system, meaning it		

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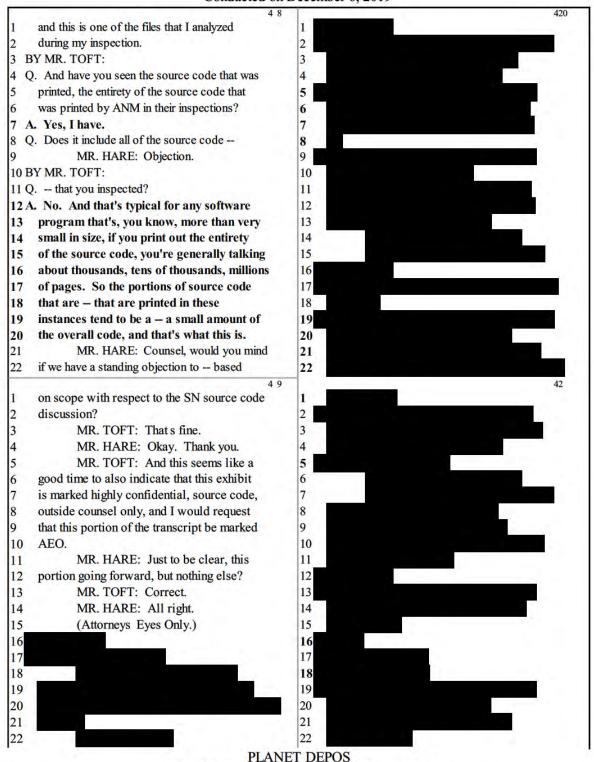
	Conducted on December 6, 2019			
	398		400	
1	each a target pressure with greater	1	is that correct?	
_	d and convenience, and that feature and	2	A. Yes	
	fit is not present in version 1.9 of	3	MR. HARE: Objection; form.	
4 ANN	As software.	4	Objection; foundation.	
5 BY MR	R. TOFT:	5	BY MR. TOFT:	
6 Q. Was	s there a benefit that you're aware of in	6	Q. Why is that why would a diffing analysis	
7 1.9 th	hat is not present in version 1.8?	7	not have been appropriate between ANM and	
8	MR. HARE: Objection; leading.	8	Sleep Number's source code that you reviewed?	
9 Obje	ction; scope.	9	MR. HARE: Objection; foundation.	
10	THE WITNESS: I was not able to	10	Objection; leading. Objection; form.	
11 ident	ify a technical benefit to those changes	11	THE WITNESS: The for starters,	
12 that v	would justify the drawbacks of those	12	I did not I never had access to a computer	
13 chang	ges. In fact, I wasn t able to identify	13	that had both sets of source code on it. I	
	echnical benefit at all, so I I don t	14	performed separate inspections of each of the	
1 *	that this was at least I was not	15		
16 able	to to find any evidence that this was	16	protective order. And so in order to do the	
17 a situ	nation where there was some type of a	17	diffing, you have to have both sets of code	
18 trade	off occurring, and one drawback was	18	on the same computer. So there s just a	
1	pted in exchange for some other benefit	19		
	was achieved.	20	MR. TOFT: Okay.	
21	In terms of the the technical	21	THE WITNESS: Secondly, I did not	
22 the te	echnical benefits and the behavior of	22		
	399	г	40	
1 the co	ode itself, it seems like the changes	1	appropriate or needed analysis, because to my	
2 that v	were made between version 1.8 and	2	knowledge, I ve not seen any evidence to date	
3 versi	on 1.9 were had no had no benefit.	3	that ANM had direct access to Sleep Number s	
4 BY MR	R. TOFT:	4	source code, and I ve not been made aware of	
5 Q. And	did 1.92 restore those benefits?	5	any allegation of literal source code theft	
6	MR. HARE: Objection; leading.	6	or copying, therefore, the diffing analysis,	
7 Obje	ction; scope.	7	which operates at the level of source code	
8	THE WITNESS: No. 1.92 is similar	8	and lines of source code, is not going to	
9 to ve	ersion 1.9, and then the the benefits	9	show the similarity that I was interested in	
10 of the	e improved target pressure system were	10	investigating.	
11 resto	red in version 1.97.	11	I was interested in investigating	
12 BY MR	R. TOFT:	12	similarity at the level of the software s	
13 Q. And	1 2.0?	13	functionality, and in particular, the	
14 A. Yes	.	14	functionality that is taught in the 154	
15	MR. HARE: Objection; leading.	15	and 747 patents, which can generally be	
16 BY MR	R. TOFT:	16	referred to as the improved target pressure	
17 Q. We	talked about the the diffing analysis	17	system, but more specifically includes the	
18 that y	you performed an ANM s source code.	18	use of a pressure adjustment factor to	
19	Did you perform a diffing you	19	calculate a target pressure and update the	
20 testif	ied earlier today that a diffing	20		
21 analy	ysis would not have been appropriate	21	pressure adjustment factor error.	
	een ANM and Sleep Number's source code;	22	And so that is the the the	

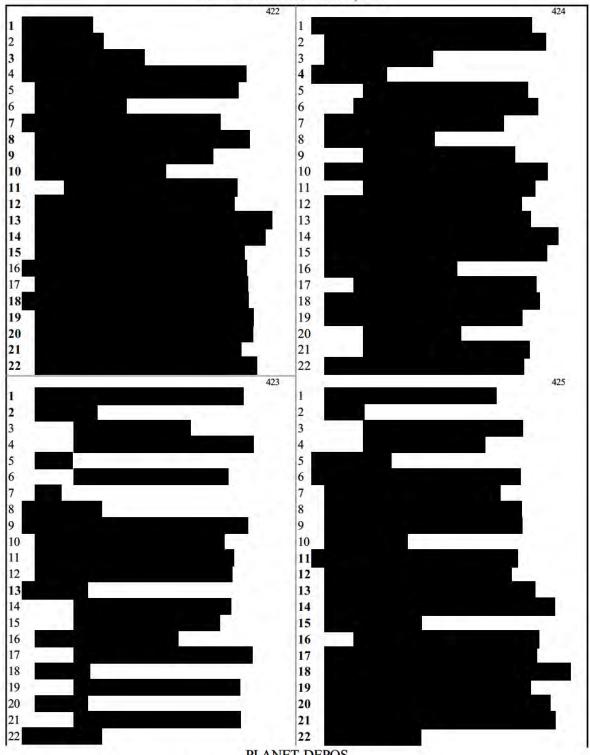
Conducted on December 6, 2019		
402	404	
1 type of similarity that I was looking for,	1 Sleep Number source code you reviewed.	
2 and that is not a similarity that would be	2 MR. TOFT: I was using his	
3 determined through the use of a diffing	3 language from the previous answer.	
4 operation.	4 MR. HARE: Okay.	
5 BY MR. TOFT:	5 MR. TOFT: It s not a leading	
6 Q. And did you conduct an analysis to see if	6 question. Please stop objecting on those.	
7 there was a level of software s functionality	7 MR. HARE: Ill make my	
8 between the ANM source code you reviewed and	8 objections.	
9 the Sleep Number source code you reviewed?	9 THE WITNESS: Okay. I need to be	
MR. HARE: Objection; foundation.	10 reminded what the question is.	
11 I m sorry, strike that.	MR. TOFT: Yup, no problem.	
12 Objection; scope. Objection just	12 BY MR. TOFT:	
13 a second.	13 Q. So the question is: Did you conduct any	
14 Objection; leading. That s it.	14 analysis to see if there is a level of	
MR. TOFT: Jaspal, why do you	15 software functionality similarities between	
think that there s an objection to scope?	16 ANM source code that you reviewed in this	
MR. HARE: I don't believe we	17 proceeding and Sleep Number source code that	
18 discussed that during the cross.	18 you reviewed?	
MR. TOFT: You asked about	19 A. Yes, I did.	
20 copying.	20 MR. HARE: Same objections.	
MR. HARE: Not not the way	21 BY MR. TOFT:	
22 you're asking it or the level you are.	22 Q. And how did you conduct that analysis?	
403	405	
1 MR. TOFT: But you agree you asked	1 A. I conducted that analysis by my	
2 about copying?	2 examination	
3 MR. HARE: Yeah, of course.	3 MR. HARE: Objection; foundation.	
4 MR. TOFT: And what is your	4 And objection, scope.	
5 objection to leading?	5 THE WITNESS: Okay. I conducted	
6 MR. HARE: Because you're leading	6 that analysis by through my inspection of	
7 him to that there s a level I m sorry, the	7 each set of source code that was produced.	
8 screen jumped. That there was a level of	8 In particular, I went through the source code	
9 software s functionality between the ANM	9 files carefully using the the static	
10 code	analysis tools that I requested that are	
11 MR. TOFT: I just asked if he	11 listed in my my declaration in order to	
MR. HARE: Sleep Number	determine how that code works and what it	
13 MR. TOFT: conducted an	does, what are the main components within the	
14 analysis to see if there was a level of	14 software, how are they how do they relate	
15 functionality. Where do you think the	15 to each other and what do they do. And I, in	
16 suggestion in that question is?	16 particular, investigated whether the claims	
17 MR. HARE: That portion I just	and claim elements that are disclosed in	
18 read you.	18 the 154 and 747 patents were present.	
MR. TOFT: Can you read it again?	19 I did that separately for each	
20 MR. HARE: You're suggesting that	20 version of ANM's code that is listed in my	
21 there s a level of software s functionality	21 declaration, and I did that for the versions	
22 between the ANM source code reviewed and the	22 of Sleep Number s code that I was provided to	

	406	December 6, 2019
l	inspect.	1 and one was named Winland Board
,	I determined, as it says in my	2 Documentation.
	declaration, that some of the versions, which	3 And so my inspection determined that
	are, you know, listed in the in the	4 all of them implemented the improved target
	declaration, do include all the claim	5 pressure system except for the one that was
5	elements of many of the claims of those	6 named Winland.
7	patents and that they implement the improved	7 BY MR. TOFT:
3	target pressure system that allows for	8 Q. And is there any particular, for example,
)	achieving a target pressure with greater	9 claim that you believe is representative of
10	speed and convenience.	10 the improved target pressure system that
11	And so based on that analysis, I	11 you're referring to?
12	made the conclusions listed in the	12 MR. HARE: Objection to form.
13	declaration that they are substantially	13 Objection; scope.
14	similar in terms of those software-based	14 BY MR. TOFT:
15	control functions.	15 Q. Or is sorry. Go ahead.
16 E	BY MR. TOFT:	16 A. I think that the improved target pressure
170	Q. And which versions of ANM code did you	17 system is present in all of the independent
18	determine implement the what you referred	18 claims of the '154 and '747, but -
19	to as the improved target pressure system?	19 Q. So would it be fair to say that if a if
20	MR. HARE: Objection; scope.	20 you reviewed the source code and you felt it
21	THE WITNESS: That's versions 1.8,	21 read on claim 1 of the '154, for instance,
22	1.97 and 2.0.	22 that you would conclude that it practiced the
	407	409
	BY MR. TOFT:	1 improved target pressure system?
	Q. And were there any versions of Sleep Number s	2 MR. HARE: Objection; leading.
3	code that you determined also implemented	3 THE WITNESS: Yes, if a – if a
4	the as you referred to it, the improved	4 system practiced claim 1 of the '154, then I
5	target pressure system?	5 would agree that the improved target pressure
	A. Yes, there were.	6 system would be present, that that feature
7	MR. HARE: Objection to form.	7 would be present.
8	Objection	8 BY MR. TOFT:
	BY MR. TOFT:	9 Q. You testified earlier that you did not
100	Q. Which were those?	10 perform a side-by-side comparison chart of
11	MR. HARE: scope. Same	11 ANM source code to Sleep Number source code;
12	objections.	12 is that correct?
13	THE WITNESS: Those are identified	13 A. Yes.
14	in paragraphs 33, and I guess more	14 MR. HARE: Objection to the extent
15	particularly 34. And I think they there	15 it mischaracterizes testimony.
16	is some additional specificity in my	16 BY MR. TOFT:
17	supplemental declaration regarding that	17 Q. Why did you not?
18	question. Yes.	18 A. Well, for – again, the – the side-by-side
19	So there were four main folders in	19 comparison, as I believe I testified earlier,
20	the Sleep Number source code. One had the	20 to me that sounds like a diffing type
21	name Logic PD, one was named Sleep Number,	21 analysis. And for the reasons I've already
22	one was named Sleep Number and Sleep IQ,	22 stated, that analysis was helpful in terms of

4 0	December 6, 2019
understanding the changes that were made to	1 And well, maybe just to make this more
ANM's code between different versions, but	2 efficient, are you only going to put this
was neither possible nor would have been	3 exhibit or do you have multiple source code
helpful in determining the functional	4 exhibits?
similarities regarding software-based control	5 MR. TOFT: This exhibit.
elements that are claimed in the '154	6 MR. HARE: This is the only one?
7 and '747 and — and the similarities with	7 MR. TOFT: Well, for now.
respect to those control functions.	8 MR. HARE: Okay. So you might as
Q. Okay.	9 well if you want to give me them all, Ill
MR. TOFT: Can I have this marked?	10 just consult with Kyle and see what
What are are we on 12?	11 MR. TOFT: I don't have any others
12 MR. HARE: I think we only got to	12 that I intend to at this time.
13 10.	13 MR. HARE: Okay. All right. So
Counsel, what is this exhibit?	14 this is the only one you want me to do you
MR. TOFT: This is excerpts of the	15 mind if we just go off the record then?
16 Sleep Number code that he reviewed and opined	16 MR. TOFT: That's fine.
	17 MR. HARE: Thank you. Let me talk
MR. HARE: We're going to object	18 to Kyle and 19 THE VIDEOGRAPHER: We re off the
to using this code at all. This is not part	
20 of the record. You're adding new exhibits	20 record at 1:10 p.m.
21 after he's already filed his report. We	21 (Recess.)
22 think this is completely improper. We're not	22 (Exhibit 11 marked.)
4	1 THE VIDEOGRAPHER: And we are back
going to allow this to be entered in as an	그 [1일 : 19] 이 나는 그는 그는 그들은 사람들이 되었다. 그는 그는 그는 그는 그는 그는 그를 보는 것이다. 그는
2 exhibit.	2 on the record at 1:33 p.m.
MR. TOFT: You asked him questions	3 MR. HARE: All right. We re going
about his analysis of the Sleep Number code	4 to object to the use of Edwards Exhibit 11,
5 and didnt allow him to put it in front of	5 which is select pages from printed source
6 him. Im not allowed to put the ANM code in	6 code of Sleep Number that ANM had printed in
7 front of him, but I am allowed to put the	7 the district courts
S Sleep Number code in front of him and ask	8 MR. TOFT: Just for the record,
about his analysis of this code.	9 can we make this clear, can I enter the
MR. HARE: Do you only intend to	10 Bates-stamped numbers so that it's clear what
1 put the Sleep Number code in front of him,	11 the exhibit is?
2 not the ANM?	12 MR. HARE: Go ahead.
MR. TOFT: You're free to put the	13 MR. TOFT: So Exhibit 11 to the
4 ANM code in front of him.	14 Edwards deposition is Bates-stamped documents
MR. HARE: Okay. But you're not	15 SNISC 0015, 16, 27, 28, 29 and 30.
16 going to attempt to put any ANM code in front	16 MR. HARE: Okay. And, again, the
17 of him?	17 Petitioner is going to object
MR. TOFT: I can't pursuant to the	18 MR. TOFT: It should be a comma
19 protective order.	19 between each of the 15, 16
MR. HARE: Okay. Let me let me	20 MR. HARE: on the grounds of
21 confer with the higher-ups then and let me	21 scope. And, further, it's extremely

Conducted on December 6, 2019				
1 months to manage its wasmans, and managed	어느 네 그는 아이는 아이를 하는 것이 없는 그 생산이 있다면 그들이 아이들이 살아 있다는 것 같아. 아이들이 가입니다.			
1 months to prepare its response, and prepared	1 confidentiality. The proceedings allow for			
2 a declaration, they used infringement	2 the filing of under seal of documents			
3 contentions, they cited no source code, even	3 under seal that are confidential in nature,			
though this is their own source code, they	4 which this one is and remains.			
5 have no restrictions on how they can use it	5 And to the extent there is any			
because it is their own code, and now on	6 waiver of confidentiality, I would insist			
7 redirect they re trying to introduce this	7 that the same apply to the same degree as to			
3 partial exhibit.	8 the unredacted infringement contentions that			
We ve also had no time to prepare,	9 were introduced by opposing counsel,			
10 and we may need to re-depose Dr. Edwards	10 Mr. Hare, Exhibits 1 and 7, the unredacted			
11 regarding the Sleep Number code based on	11 infringement contentions.			
12 this.	MR. HARE: Just one clarification.			
We also believe there s an issue of	13 During cross-examination we only talked about			
14 completeness given that these are select	14 the lack of source code, particularly lack of			
15 pages cherry-picked out of a larger set of	15 Sleep Number source code that was in the			
16 printed source code, which is also out of a				
	16 report, we didn't actually talk ever talk			
17 larger set of source code that was produced.	17 about actual source code, because there was			
We also believe Sleep Number may	18 none			
19 have waived confidentiality. The PTO	MR. TOFT: I can remember			
20 proceedings are generally supposed to be	20 MR. HARE: described or			
21 public. And by introducing this code, it	21 attached to Dr. Edwards report.			
22 potentially enters more issue of	22 You can proceed.			
4				
1 confidentiality and goes against the openness	1 BY MR. TOFT:			
2 of the proceeding.	2 Q. Dr. Edwards, you've received what has been			
Thank you. That's all I have.	3 marked as Exhibit 11. Do you recognize this			
4 MR. TOFT: And I would just	4 document?			
5 respond that Sleep Number's position is that	5 A. Yes, I do.			
it's within the scope of this testimony	6 Q. What is it?			
because they repeatedly asked Dr. Edwards	7 A. This is a printout of a source code file that			
3 about his analysis of the Sleep Number code	8 is part of Sleep Number's software. And in			
yesterday.	9 particular, it's a file that's found in the			
10 I offered to provide the code	10 Logic PD folder. And it's my understanding			
11 yesterday, and counsel refused. Dr. Edwards	11 that this file was printed by ANM or Sizewise			
12 asked for the code, I believe, and wasn t	12 during their inspection of the source code.			
13 allowed to review it during the	13 Q. And does this – does the source code that's			
14 cross-examination, but instead was forced to	14 depicted in Exhibit 11 fairly and accurately			
15 try and remember it from memory.	15 depict the source code that you reviewed of			
	16 Sleep Number's?			
17 Petitioner has had access to this code at	MR. HARE: Objection; form.			
18 least since they reviewed it in October of	18 THE WITNESS: Yes, this is a a			
19 2018, and could have introduced it as an	19 portion of the source code that I I			
20 exhibit during the cross-examination.	20 analyzed. Of course, during my inspection I			
The and as for confidentiality, I	21 was able to view the entirety of the source			
22 disagree that there s any waiver of	22 code, which included many files and folders,			

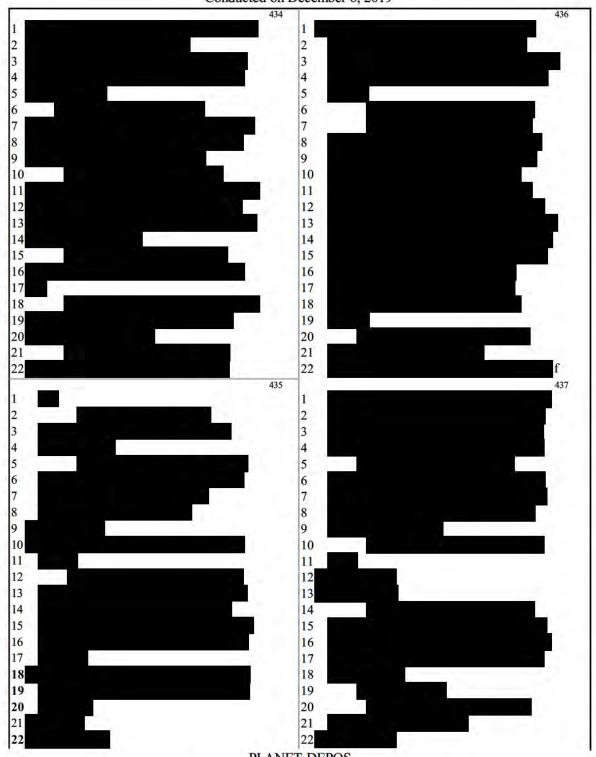


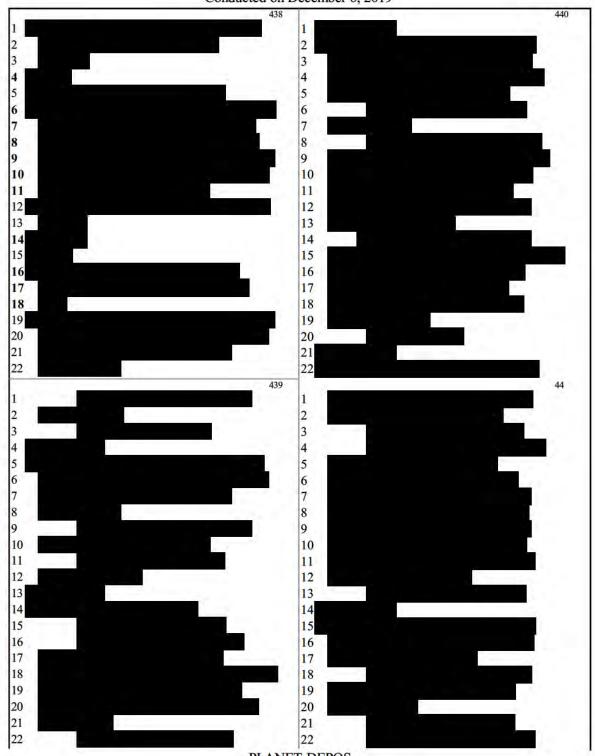


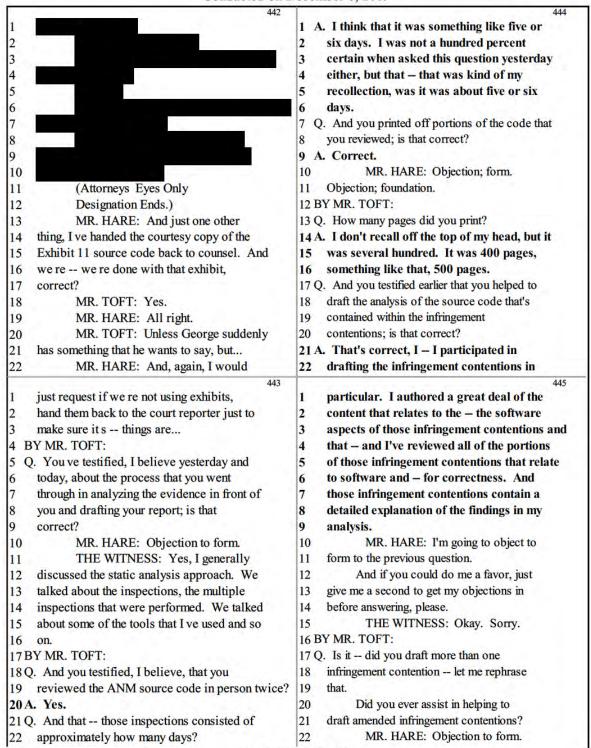


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446	December 6, 2019
1 Objection to foundation.	1 the infringement contentions before signing
THE WITNESS: Yes, I assisted with	2 your declarations in these proceedings?
drafting, I believe, several versions of the	3 A. Yes, I did.
4 infringement contentions.	4 Q. And did you review other documentation before
5 BY MR. TOFT:	5 signing those declarations?
6 Q. And what is your over what period of time	6 A. Yes, I did.
7 were you assisting to draft these several	7 Q. What other documentations did review or
8 versions of the infringement contentions?	8 documents did you review?
9 MR. HARE: Same objections.	9 A. The –
10 THE WITNESS: My recollection is	10 MR. HARE: Objection to form.
11 that it was an ongoing activity between the	11 THE WITNESS: The documents that
12 fall of 2018 and January of 2019.	12 are identified in my declaration, so the
13 BY MR. TOFT:	13 timelines of the product releases, which are
14 Q. And when drafting these infringement	14 identified by Bates number, the declarations
15 contentions, did you	15 of Dr. Abraham, which I relied on, to the
16 A. It might have been – it might have – it	16 extent that they — I relied on Dr. Abraham's
17 might have extended beyond January of 2019.	17 opinions that the mechanical and structural
18 I forget the exact period.	18 elements of the claims are present in the
19 Q. Okay. And you said that you independently	19 the ANM products. I reviewed the
20 reviewed the contentions?	20 contentions, and I – I – that's all that
21 A. That's correct.	21 I'm remembering right now, but it's all
22 Q. And if you disagreed with anything in the	22 identified in the declaration what I
22 Q. Tind it you abagreed war anything it the	449
1 contentions, would you have said anything?	1 reviewed.
2 MR. HARE: Objection; leading.	2 MR. TOFT: Okay.
THE WITNESS: Yes, I would have.	3 BY MR. TOFT:
4 BY MR. TOFT:	4 Q. And do you believe that the documents and
5 Q. Is there anything in the contentions that you	5 the documents you reviewed sufficiently
6 disagree with, sitting here today?	6 allowed you to make the opinions expressed in
7 MR. HARE: Objection to form.	7 your declaration?
8 THE WITNESS: No, there s not.	8 A. Yes
9 There is content within the infringement	9 MR. HARE: Objection; leading.
10 contentions that I did not evaluate the	10 THE WITNESS: Yes, I do.
11 correctness of, and I m speaking particularly	11 BY MR. TOFT:
12 of content within the infringement	12 Q. Yesterday you were asked about the inflate
13 contentions that relates to the structural	13 pressure adjustment factor. Do you remember
14 and mechanical elements of the products. And	14 discussions related to that?
15 the correctness of those aspects was not part	15 A. Yes, I do.
16 of my analysis, but I carefully checked all	MR. HARE: Just a second.
17 the software-related content within the	MR. TOFT: He gave you time.
18 infringement contentions, and as I sit here	18 MR. HARE: I know that. Okay.
19 today, am not aware of any mistakes or	19 You can proceed. Sorry.
20 anything that I disagree with.	20 BY MR. TOFT:
21 BY MR. TOFT:	21 Q. And in particular, counsel asked you about a
22 Q. And did you review the unredacted versions of	22 variable, and I apologize if I m if I m

Conducted on December 6, 2019 450 452			
messing these names up, but I believe it's a	1 basically exactly what it says in the		
variable named inflate need add. Do you	2 contentions.		
remember discussions related to that?	3 MR. TOFT: Okay.		
A. Yes, I do. I think it's inflating.	4 BY MR. TOFT:		
Q. Inflating need add?	5 Q. Yesterday you when counsel was asking you		
A. Need add.	6 about your understanding of infringement, one		
Q. And I believe you testified that with respect	of the things that you said was that the		
	8 patent would need to be valid.		
to this variable — is variable the right word?	9 Do you remember that?		
10 A. Yes, it is.	10 A. Yes, I do.		
11 Q. That with respect to this variable, that the			
	11 Q. Are you offering any opinions on the validity		
2 adjustment factor error does not have an	12 of any of the patents-in-suit or patents at		
a explicit variable in the source code. Is	13 issue?		
that a fair characterization of what you said	14 A. No, I'm not.		
or would you if not would you mind	MR. HARE: Objection; scope.		
MR. HARE: Objection to form.	MR. TOFT: And I believe I am		
7 Objection; leading.	17 done, but can I have a minute break just to		
8 BY MR. TOFT:	18 check?		
9 Q restating it in your own words?	19 MR. HARE: We ll just go chat too		
20 A. Sure. Yeah, what you said is – is generally	20 and get do our prep.		
21 what I stated, which is that the — that	21 THE VIDEOGRAPHER: We are off the		
value is calculated, but is not assigned and	22 record at 2:26 p.m.		
45	453		
stored in a named variable.	1 (Recess.)		
Q. Based upon your analysis of the code, is an	2 THE VIDEOGRAPHER: And we re on		
g error still computed?	3 the record at 2:41 p.m.		
MR. HARE: Objection; leading.	4 BY MR. TOFT:		
THE WITNESS: It is computed, but	5 Q. So I believe I only have one more question		
it is not assigned a variable name.	6 left.		
BY MR. TOFT:	7 Dr. Edwards, in your declaration		
R Q. And is the, you know, modification of the	8 I believe you testified to one of counsel s		
pressure adjustment variable based upon this	9 questions earlier that the declaration does		
0 error, in your opinion?	10 not contain line numbers or variables for		
MR. HARE: Objection objection;	11 Sleep Number's source code; is that correct?		
2 form. Objection; leading. Objection;	12 A. Yes.		
3 foundation.	13 Q. Why why does your declaration not		
4 THE WITNESS: In my opinion, the	14 include any line numbers or variables for		
5 modification is based upon that error.	15 Sleep Number source code?		
6BY MR. TOFT:	16 MR. HARE: Objection; leading.		
7Q. So just to so we have a clean record, is	17 THE WITNESS: For the same reason		
18 it your opinion that the modification of	18 that I didn t include file names, line		
19 inflating need add in the ANM source code, is	19 numbers, function names and variable names		
20 based upon an adjustment factor error?	20 for the ANM code. My understanding was that		
21 MR. HARE: Same objections.	21 the protective order and confidentiality		
THE WITNESS: Yes, and that s	22 considerations were such that I should not		

		December 6, 2019
	454	456
1	include those in the declaration. And in the	1 MR. TOFT: Sorry, I would just add
2	case of ANM code, those were contained in the	2 the objection to the extent it
3	unredacted contentions.	3 mischaracterizes, but I believe the witness
1	MR. TOFT: Okay. I have no	4 has got that.
5	further questions and I pass the witness.	5 BY MR. HARE:
5	MR. HARE: One thing. We re going	6 Q. Can you explain?
7	to object to the whole line of questioning on	7 MR. TOFT: Object to form.
3	redirect on the basis that the witness was	8 THE WITNESS: Yeah. My
)	heavily coached. There was an over	9 understanding is that I was allowed to use my
10	hour-and-a-half break between cross and	10 analysis and findings of that analysis of the
11	redirect. Many of his answers were to yes	11 source code in the declaration, but was not
12	and no questions contained extensive	12 permitted to identify specific variable
13	narratives, although only a yes or a no was	13 names, function names, file names and line
14	required to answer a question, which also	14 numbers, or describe the source code at the
15	evidences the heavily coaching nature of the	15 level of specificity that it is described in
16	testimony.	16 the unredacted infringement contentions.
17	MR. TOFT: I disagree with your	17 BY MR. HARE:
18	characterization, but note it for the record.	18 Q. And we re talking about the Sleep Number
19	MR. HARE: Thank you. We ll begin	19 source code, not ANM?
20	recross then.	20 A. I'm referring to both sets of source code.
21		21 Q. Where did your understanding come from?
22	FURTHER EXAMINATION	22 A. From counsel and from my yeah, from
	455	457
	BY MR. HARE:	1 counsel.
	2. During the break between cross and redirect,	2 Q. During our redirect, do you recall
3	did you talk to your attorney?	3 discussing, with respect to ANM products,
4	MR. TOFT: Objection to the extent	4 certain certain portions of the code would
5	it calls for privileged communication. But	5 result in something being faster or quicker?
5	to the extent you can answer the question	6 A. Yes, I do recall that.
7	without revealing any communication, you are	7 Q. Okay. Could you maybe, in a sentence, just
8	free to do so.	8 summarize what you were describing to be
9	THE WITNESS: Yes, we did talk.	9 faster and quicker?
10	And I guess I would clarify that he s not my	10 MR. TOFT: Object to form.
11	attorney.	11 THE WITNESS: Sure. So based on
12 E	BY MR. HARE:	12 my reading of the source code, usage of the
130	You talked to the attorney representing the	13 improved target pressure system, including
14	Patent Owner, correct?	14 use of an adjustment factor, would allow the
15 A	A. Yes.	15 software to achieve a target pressure with
160	Q. Okay. In that last question you stated	16 fewer attempts at inflation and deflation,
17	you and correct me if I m wrong, you	17 meaning fewer iterations of activating or
18	believe the protective order in the case	18 deactivating a motor and valves to reach a
19	prevented you from using Sleep Number code in	19 target pressure and, thus, achieve a target
20	your declaration or in a supporting exhibit;	20 pressure faster.
21	is that correct?	21 BY MR. HARE:
22 A	A. That's not what I said.	22 Q. You didn't conduct any tests to confirm that,

Conducted on E	December 6, 2019
1 did you?	1 right here. It's the exhibit why don't
2 A. No, that's based on my inspection of the	2 you just hand it to him to refresh his
source code.	3 recollection.
Q. Okay. Thank you.	4 MR. TOFT: (Hands document.)
Do you recall talking about the	5 MR. HARE: And I d like the record
Logic PD source code related to ANM products?	6 to reflect the witness is reviewing to
7 A. Yes, I do.	7 refresh his recollection in the what is,
8 Q. Strike the last question.	8 in the 514 proceeding, Exhibit 2079, and it
9 Do you recall talking about the	9 begins at Bates number SN 0021013.
10 Logic PD source code related to	10 MR. TOFT: And, sorry, just for
11 Sleep Number products?	11 the record, Ill just put in that it s
12 A. Yes, I do.	12 Exhibit 2058 in the 497 and 500 proceedings.
13 Q. Does your report identify what Sleep Number	13 MR. HARE: Thank you.
14 products the Logic source code that was	14 THE WITNESS: Okay. So
15 produced is actually used on?	15 MR. TOFT: Sorry, did you want to
16 A. My report references a document describing	16 make this an exhibit or did you just want to
17 the Sleep Number products and the times that	17 use this to refresh his recollection?
18 those products were developed, and so that	18 MR. HARE: Well, let's just see
19 can be indirectly associated with that code	19 what his answer is and decide.
20 by matching up the dates.	20 MR. TOFT: He s okay.
21 Q. Do you have any direct evidence that the	21 THE WITNESS: Okay. So based on
22 Logic source code was actually used in a	22 the dates indicated in that source code, I
22 Logic source code was actually used in a	22 the dates indicated in that source code, i
1 production product of Sleep Number's?	1 think that it was used in the performance FCS
2 A. I don't know exactly what you mean by "direct	2 and innovation FCS models.
3 evidence," but the source code does indicate	3 MR. HARE: Okay.
4 that it was used in a release version.	4 BY MR. HARE:
5 Q. Where in your report does it discuss anything	5 Q. You use the word "think" because you're not
6 about or any analysis about that release	6 100 percent sure, correct?
7 version?	7 MR. TOFT: Object to the extent it
8 A. My report references the – the folder that	8 mischaracterizes.
9 contains that source code, but does not	9 THE WITNESS: The the evidence
10 contain a discussion of the question you just	10 that I have is not 100 percent, but it does
11 asked.	11 indicate that.
12 Q. Can you tell me one product of Sleep Number's	12 MR. HARE: Okay.
13 that was commercially sold that used the	13 BY MR. HARE:
14 Logic PD source code?	14Q. You have no firsthand knowledge that the
15 A. I can if I'm provided with the document	15 Logic PD source code was used on those
16 that's referenced in my declaration.	16 products, correct?
17 MR. TOFT: Would you like me to	17 A. Correct.
18 hand that to him?	18 Q. All right. Do you want to hand counsel back
19 MR. HARE: Can I just see it?	19 his exhibit.
20 MR. TOFT: Yeah. (Hands	20 MR. TOFT: So I d actually liked
21 document.)	21 this marked this as Exhibit 12 then.
22 MR. HARE: Oh, I think I have it	22 MR. HARE: That's no problem.

1 Could we have the	1 And if I can take a second to confer
2 MR. TOFT: Can you just hand it to	2 with my my expert, I think we re going to
the court reporter.	3 be done.
4 MR. HARE: what we just	4 (Brief discussion.)
described as 2070 to refresh the witness s	5 MR. HARE: Thank you for your
	[2] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [- 12] [
6 recollection marked as Exhibit 12, please, to	
7 the Edwards deposition.	7 questions.
8 (Exhibit 12 marked.)	8 THE WITNESS: Okay.
9 MR. HARE: Would you mind if I	9 MR. TOFT: Oh, I m good as well.
10 take a browse and make sure this is the same	10 THE VIDEOGRAPHER: That concludes
11 thing I looked at?	11 our deposition at 2:59 p.m. Thank you.
Counsel, can you represent this is	12 (Off video record.)
13 just a clean copy of the exhibit?	13 (Brief discussion.)
MR. TOFT: Correct.	14 THE COURT REPORTER: So Mr. Hare,
MR. HARE: There s a marking here.	15 did you want the same order as yesterday, the
MR. TOFT: Oh.	16 realtime, the rough and three-day expedite
MR. HARE: I think I have it.	17 unless we can get it to you sooner?
MR. TOFT: Do we want to I can	18 MR. HARE: Yup.
19 grab a clean version.	19 THE COURT REPORTER: And Mr. Toft,
MR. HARE: I think I have it.	20 same as yesterday
MR. TOFT: Okay.	21 MR TOFT: Same as yesterday.
MR. HARE: Can we just go off the	22 THE COURT REPORTER: regular
1 record for 30 seconds and I ll grab it.	1 turnaround, no rough?
가 보고 그 아이들이 아이들이 되었다면 하는데 그렇게 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 그렇게 되었다.	
record at 2:55 p.m.	THE COURT REPORTER: Great, Thank
4 (Recess.)	4 you.
5 (Exhibit 12 marked.)	5 (Deposition concluded at 3:00 p.m.)
THE VIDEOGRAPHER: And we re back	
on the record at 2:57 p.m.	7
B BY MR. HARE:	8
Q. Do you recall, during your redirect, having a	9
discussion about the ANM products, starting	10
with the products that used version 1.8, code	11
implement insert in features related to	12
13 the 757 and 154 patent?	13
14 A. Yes.	14
15 Q. Okay. Does your report provide an opinion	15
that ANM products, prior to the version 1	16
point that used version 1.8, did not use	17
	18
MR. TOFT: Object to form.	19
	19 20
MR. TOFT: Object to form. THE WITNESS: I have not offered an opinion on that.	

		90000000 0, 2019
1	ACKNOWLEDGMENT OF DEPONENT	
2	I, GEORGE EDWARDS, Ph.D., do	
3 4	hereby acknowledge that I have read and	
	examined the foregoing testimony and the same	
	is a true, correct, and complete	
	transcription of the testimony given by me	
	and any corrections appear on the attached	
	errata sheet signed by me.	
10	A 10 10 10 10 10 10 10 10 10 10 10 10 10	
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3 o M 4 who 5 du y depc 6 be on give 7 8 S ee cour 9 10 Geco 11 Suith Decc 12 3 00 13 to ar 14 mary 15 in n the c 16 17 my l 18	, Amy arson, Registered Pro essiona orter and Notary Pub ic with and or the State finnesota, do hereby certi y That George dwards, Ph D, the witness se deposition is hereinho ere set orth, was a sed position is hereinho ere set orth, was a swom by me be ore the commencement o such sition and that such deposition was taken re me and is a true record o the testimony in by such witness urther certi y that the adverse party, po Number Corporation, was represented by see at the deposition, urther certi y that the deposition or one dwards, Ph D, Vo ume, occurred at the ses o Fox Rothschi d, 222 South Ninth Street, as 2000, Minnespo is, Minnesota on Thursday, ember 6, 2019, commencing at 8 57 am to 19 pm urther certi y that am not re ated my ot the parties to this action by b cod or riage, am not emp oyed by or an attorney to one the parties to this action, and that am or way interested, inancia y or otherwise, in outcome o this matter NW TN SS WH R OF, have hereunto set hand this 9th day o December, 2019 Amy arson, RPR My Commission xpires 01 31 20 NOTARY PUB C NAND FOR TH	
20	STAT OF M NN SOTA	
21 22		

A	abraham's	activity	328: 4, 328: 6,	
able	448: 6	446:	328: 7, 328:2 ,	
3 8: 8, 345:6,	absolutely	actual	329:5, 329:8,	
348:2 , 369:2 ,	374:9	370: 5, 37 : 4,	329: 4, 329: 5,	
37 :22, 38 : 0,	academia	393:2, 4 6: 7	330:7, 330:8,	
883: 0, 392:2,	384:3, 395:22	actually	330: 0, 330: 8,	
	accepted	334: 5, 358:9,	33 :5, 33 :6,	
392:6, 398: 0,	398: 9	86 ,	387: 0, 387: ,	
398: 3, 398: 6,	access	4 6: 6, 437: 7,	40 : 8, 40 :20,	
7:2 , 42 : 9,	357:6, 380: 9,	440:2, 458: 5,	40 :2 , 422: 4,	
25:7, 43:7,	400: 2, 40:3,	458:22, 46 :20	422: 5, 424: 3,	
33:20	4 5: 7, 43 :6	add	424: 4, 425:22,	
bout	according	392: 4, 396:4,	428: 2, 428: 6,	
2: , 3 3:6,	the state of the s	450:2, 450:5,	428:20, 429:7,	
3:8, 3 5: ,	433:8		429:20, 449: 3,	
5:3, 3 7:8,	account	450:6, 45 : 9, 456:	450: 2, 45:9,	
7: , 3 7: 7,	323: 4, 327:20,		45 :20, 457: 4	
20:3, 320:5,	328:2	added	adverse	
26:20, 337:7,	accurately	396:6	467: 2	
46:22, 347:3,	327:20, 328:2,	adding	aeo	
5 :8, 353: 5,	4 7: 4	4 0:20	7.65 (6	
6:22, 367:2,	accuse	additional	4 9: 0, 442:9	
68:6, 368: 4,	3 3:8, 3 5: 7,	407: 6, 429: ,	affect	
68: 7, 368:20,	3 5: 8	440:9	392:9	
69:2, 369: 2,	accused	additive	affected	
69:20, 37:2,	3 5:3, 386:2	320:6, 428: 2,	392:3, 392:6	
7:0,373:3,	accusing	428:2 , 429:7	after	
74:20, 377:8,	3 2: 5	adjust	3 : 4, 387:20,	
78: 7, 379:5,	achieve	333: 3, 428:6	388: , 388:7,	
85: 2, 385: 5,	394: 7, 436: 2,	adjust correctio-	395:6, 4 0:2 ,	
85:20, 39 : 8,	440: 5, 457: 5,	n value	434:2	
92:20, 394: 0,	457: 9	422: 0	afternoon	
99: 7, 402: 9,	achieved	adjust pressure -	367: 9	
03:2, 4 :4,	376: , 398:20	target	again	
:9, 4 :22,	achieving	426:3	3 7:22, 323:22,	
5:8, 4 6: 3,	406:9	adjustment	324: 3, 329: 5,	
6: 7, 4 8: 6,	acknowledge	3 9:8, 3 9:9,	330:20, 334:7,	
24:7, 424: 0,	466:4	3 9: 4, 3 9: 6,	34 :4, 343:6,	
43:6, 443: 3,			347:5, 347:6,	
43: 5, 444:5,	acknowledgment	320:7, 320:8,	359: 4, 362: ,	
49: 2, 449:2 ,		320: 2, 32: ,	372: 9, 386: 7,	
52:6, 456: 8,	across	322:5, 322:7,	390: , 390:20,	
58:5, 458:9,	382: 2	322:20, 322:2 ,	392:9, 403: 9,	
59:6, 463: 0	action	323: , 323:2,	409: 8, 4 3: 6,	
bove-entitled	3 : 3, 467:23,	323:4, 323:9,	426: 9, 442:22	
: 3	467:25	323: 4, 323: 9,	against	
braham	activate	326: 7, 326:2 ,	4 5:	
48: 5	436: 4	327:4, 327:8,	ago	
140: 3	activating	327: 7, 327: 8,	382: 6, 426:9,	
	457: 7	327: 9, 328: 3,	302: 0, 420:9,	
	17276 1 0 1			
		11.		
		All the second s	44	

428:5, 432:8	allow	among	422: 7, 437:
agree	387: , 394: 6,	327:6, 379:7	analyzing
359: , 374: ,	4:,4:5,	amount	363:2 , 443:7
403: , 409:5,	4 6: , 457: 4	4 8: 9	anm
4 9: 9	allowed	amy	3 2: , 3 2:20,
agreed	342: 3, 373:3,	306:24, 3 :8,	3 2:2 , 3 3:4,
			3 3:9, 3 3:20,
367:4, 367:8	4 :6, 4 :7,	467:2, 467:33	
ahead	4 5: 3, 449:6,	analysis	3 4:20, 3 5:2,
329: , 329:3,	456:9	3 2:20, 3 7: 7,	3 5:4, 3 6:5,
367:7, 374: 8,	allows	3 9:4, 3 9:8,	3 6:6, 324:2 ,
380:9, 408: 5,	336: 7, 373: 4,	327: 4, 345: 0,	325:22, 352:4,
1 3: 2	38 :4, 406:8,	0 ,	354: 3, 356:7,
air	436:	354: 8, 355:7,	356:2 , 357:20,
323: 3, 323: 6,	already	356:8, 356: ,	357:2 , 358: 2,
323:22, 327:22,	37 :4, 376:5,	356: 3, 365:5,	358: 5, 358: 6,
328:4, 336:2,	409:2 , 4 0:2 ,	365:6, 365:7,	359:2, 36:9,
336:3, 336:4,	440: 3, 44:5	373: , 374:2 ,	36 : 0, 36 : 6,
336:5, 425:2	also	379: 6, 379: 9,	36: 7, 362:20,
al	308: 5, 3 7: ,	379:22, 380:22,	364: 8, 369:4,
3 0:9	323:8, 323: 0,	383:8, 383: ,	37 : 3, 37 : 4,
11	329: 3, 330: 7,	384:6, 384:8,	377: 8, 379:9,
3 2:9, 3 2: 4,	339:9, 339: 0,	384: 7, 392:3,	379: 0, 380: 8,
3 2: 6, 3 5:4,	347:8, 348: 9,	392:6, 392: 0,	383: 4, 385:5,
32 : 3, 328: 0,	355:3, 360:2,	393: , 393:6,	385: 2, 385: 6,
330: , 333:3,	360:5, 360: 2,	393: 0, 399: 7,	386: 4, 399:22,
335:4, 335:8,	362:3, 373: 7,	399:2 , 400:6,	400:7, 40:3,
337: 7, 340: ,	375: , 377:8,	40:, 40:6,	402:8, 403:9,
35 : 7, 356: 9,	377:2 , 378:2,	402:6, 403: 4,	403:22, 404: 6,
357:4, 357:22,	379: 4, 384: 0,	404: 4, 404:22,	406: 7, 409: ,
358: 7, 359:4,	389:2, 389:4,	405: , 405:6,	4 :6, 4 : 2,
370: 4, 37: 2,	389: 6, 390: 8,	405: 0, 406: ,	4:4,4:6,
372:3, 372:7,	394: 3, 407:3,	409:2 , 409:22,	4 3:6, 4 7: ,
	4 4:9, 4 4: 3,	4 :4, 4 :9,	4 8:6, 422: 7,
372: 6, 380:20,		4 5:8, 420:4,	424:2, 424: 7,
383:5, 386:8,	4 4: 6, 4 4: 8,	423:9, 428:4,	426: , 426: 5,
398: 4, 406:5,	6, ,		427:7, 429:8,
108:4, 408: 7,	422: 9, 424: 5,	43: , 443: 2,	429: , 430:4,
1 0: 9, 4 2:9,	429:3, 43:5,	444: 8, 445:9,	43: 0, 43:22,
1 2: 3, 4 3:3,	435:4, 438:8,	447: 6, 45:2,	432: 6, 434: ,
1 5:3, 4 8:8,	440: , 454: 4	456: 0, 459:6	
9: 4, 425: 2,	alternative	analyze	437: , 438:20,
130: 0, 430: 3,	340:8	363: 0	439:6, 439: 9,
130:2 , 43 :8,	although	analyzed	443: 9, 448: 9,
13: 6, 442: 9,	454: 3	3 5: 0, 369:5,	45: 9, 453:20,
145:4, 447: 6,	amended	370: 6, 37 : 5,	454:2, 456: 9,
148:20, 448:2 ,	445:2	375: , 378:6,	457:3, 458:6,
16 : 8	american	378:2 , 385:6,	463: 0, 463: 6
allegation	306:5, 3 0:7,	385: 6, 386: 5,	anm's
40 :5, 432: 3	3 :2	4 7:20, 4 8: ,	370: 6, 374:2 ,

377: 6, 378:20,	445: 4	453: 4, 455:7,	274. 2 200.2
	answers	453: 4, 455:7, 457:22, 458:2,	374: 2, 399:2 , 400:7, 40 :
379:7, 379: 2, 379:20, 38 : 2,	343: 2, 37 :20,	459:6, 466:8,	approximate
393:20, 395:5,		467:23, 467:25	323: 2
395: 3, 398:4,	372: , 372:4, 372: 7, 372: 9,	anybody	approximately
399: 8, 405:20,	454:	3 2:6	
4 0:2, 422:20,	anticipated	anything	307:6, 338:5,
423:9, 429:22,	367:		338:9, 443:22
43: 6, 433: 4,		3 :20, 3 2: ,	area
439:3	any	32 : 5, 323:7,	345: 0, 347:6
anmi	3 2:3, 3 3: 7,	324:3, 328:8,	areas
439: 8	3 3: 9, 3 5: 7,	328: 9, 329:9,	347: 5
another	3 6:5, 3 6:6,	329:20, 340: 8,	aren't
	320: , 320: 4,	362: , 362:5,	3 5:2
3 7: 6, 322: 8,	320:20, 324:2 ,	362: 4, 428:2,	around
328:20, 34:20,	325:22, 326:5,	446:22, 447: ,	345: 5, 386: 9,
378:9, 379:9,	328: 0, 348:9,	447:5, 447:20,	426: 9
425: 6	350:9, 352: 7,	459:5	art
answer	352: 8, 355:6,	anyway	383:2
3 6: 6, 3 6:2,	355:9, 355: ,	392:7	articulated
3 7:4, 3 7:5,	355: 3, 355: 4,	anywhere	42 :2
3 8:9, 340: 6,	355: 5, 355: 7,	34 : 5	aside
340: 7, 34:3,	356: , 356:3,	apart	364: , 44 : 6
34 :5, 34 :6,	36 :8, 363:4,	382:2	asked
34:3,34:2,	363: 2, 363:20,	apologize	357: 9, 367:2,
342: , 342: 3,	363:2 , 364:9,	367: 0, 449:22	368:6, 369:2,
342: 4, 342: 8,	364: 7, 365: ,	appeal	369: 2, 373:4,
342: 9, 342:22,	365:2 , 368:20,	306:3, 3 0:	373:9, 374: 7,
343:6, 343:7,	370: , 37:20,	appear	374:20, 375: ,
343: , 343: 7,	372:5, 372:20,	3 7: 6, 394: 4,	377:8, 385: 5,
343: 9, 344:2,	373:4, 374:7,	466:8	385:20, 402: 9,
344:9, 345:3,	378: 9, 380: 3,	appearances	403: , 403: ,
345:7, 346:20,	38 : 7, 38 :22,	308:	4 :3, 4 5:7,
346:2 , 347:9,	382:6, 385:4,	appeared	4 5: 2, 444:3,
347:22, 348:3,	386: 3, 388: 7,	383: 6	449: 2, 449:2 ,
370: , 372: 5,	388: 8, 390:4,	appears	459:
373: 8, 380:7,	39 :5, 392: ,	326:2, 360:6,	asking
380: , 387:2 ,	393:5, 394:2 ,	424: 5, 439: 8	327:5, 327: 3,
388: 0, 39 : 2,	398: 4, 398: 6,	applied	329:2, 335: 9,
404:3, 435:6,	40 :2, 40 :5,	384:8	339:2, 344: 0,
437: 5, 437: 6,	404: 3, 407:2,		346:4, 347:3,
454: 4, 455:6,	408:8, 4 : 6,	apply	
460: 9	4 2: , 4 5:22,	384: 6, 4 6:7	347:20, 385: 9,
answered	4 6:5, 4 8: 2,	appreciate	388: 2, 388: 3,
3 6: 9, 342:8	42 : 9, 422: 6,	374:3	402:22, 452:5
answering	425:6, 427: 3,	approach	aspect
3 6:9, 3 6: 2,	432:9, 440:3,	443: 2	426:7
3 6:22, 343:3,	440:22, 447: 9,	appropriate	aspects
373:3, 373: 3,	452: , 452: 2,	3 4: 3, 343:22,	349:2, 349:4,
313.3, 313: 3,	102. , 102. 2,	365:7, 374:4,	362:2, 383:2,
			11 12 22 1
		46	
	_		-

425: 3, 430:9,	432:9, 432: 3,	basically	begin
43 : 2, 445:3,	447: 9	452:	454: 9
447: 5	В	basis	begins
asserted	b		0 , 60
325:2	336:2, 336:5,	395: 9, 433:2,	behalf
asserting	345: 8	440:3, 440:9,	308:2, 308:8
324: 8, 324:20	b-1	44:, 454:8	behavior
assigned	424: 0, 425: ,	bates	392: , 398:22,
450:22, 45 :6	426:20, 427:5,	309: , 426: ,	423:4
assist	429: 7	448: 4, 460:9	being
445:20	back	bates-numbered	3 5:2, 325: 3,
assisted	326:5, 330: 6,	422:5, 439: 8	325:20, 356: 7,
446:2	33 : 6, 33 :20,	bates-stamped	356:2 , 358: ,
assisting	334:2 , 335: 0,	4 3: 0, 4 3: 4	358: 3, 358: 8,
446:7	335: 3, 342:7,	because	370:9, 457:5
associated	360:2 , 36 :4,	337: 0, 346: 8,	believe
380: , 458: 9	366: 3, 367: ,	347: , 353: 5,	3 3: 8, 3 6: 5,
attach	389: 0, 396: 3,	357:8, 358: 0,	3 6: 8, 3 9: 7,
353:4, 353:7,	4 3: , 425:6,	359: 4, 362: ,	32 :2, 322:5,
353:8, 353: 3,	427: 3, 430: 7,	365:6, 37 :8,	324:7, 324:9,
353: 6	434: 2, 442:6,	372: 6, 377: 5,	330: 0, 333:8,
attached	442: 5, 443:2,	388: 0, 392: 0,	333: 4, 333: 6,
353:6, 4 6:2 ,	46: 8, 463:6	394: 6, 396:20,	333: 8, 333:20,
466:8	background	40 : , 403:6,	335:3, 335: 8,
attaching	392: 9	4 3:22, 4 4:6,	34 : 6, 342: 6,
353: 9	backwards	4 5:7, 4 6: 7,	342: 7, 344:4,
attempt	394: 5	434: 8, 437:3,	344:8, 344: 0,
4 : 6	barrier	46 :5	345:3, 345:8,
attempting	400: 9	bed	346: 6, 350:8,
344:4	based	333:5, 333:9,	35 : , 354:7,
attempts	3 4: 3, 327: 7,	335:8, 335: 5,	355: 8, 359:22,
457: 6	328: 4, 328: 7,	335:20	366:5, 367: 2,
attention	329: 4, 372:2,	been	37 :7, 37 : 9,
338:4, 345: 4,	379:2 , 393:2,	3 : 4, 37 :22,	372:3, 372:9,
350:5, 36 :5	397:2, 40 :20,	372:8, 375:22,	372: 6, 376:5,
attorney	406: , 4 4: ,	384:4, 387:6,	376:8, 376:20,
455:3, 455: ,	4 8:22, 422:4,	390: 6, 390: 7,	377:9, 384:20,
455: 3, 467:24	422: 5, 424: 4,	392:2, 399:2,	385:2, 385: 8,
attorneys	425:20, 436:3,	400:7, 40:4,	386: , 386:6,
4 9: 5, 442:	45 :2, 45 :9,	4 0:3, 4 7:2,	386:9, 387: 6,
authored	45 : 5, 45 :20,	430:9, 446: 6	39: 9, 402: 7,
445:	457: , 458:2,	before	408:9, 409: 9,
automatically	460:2	306:3, 3 0: 0,	4 4: 3, 4 4: 8,
38 :6	bases	350: 4, 367:3,	4 5: 2, 432: 5,
available	432:22, 440:3,	396: 4, 434:8,	438: 6, 443:5,
373: 2, 38 :2,	44 :	440:2, 445: 4,	443: 8, 446:3,
438:	basic	448: , 448:4,	449:4, 450: ,
438: aware	339: 9, 340:2	467:7, 467:9	450:7, 452: 6,
398:6, 40 :4,	333. 3, 310.2		
390:0, 40 :4,			

bladders 336:3 blanket 8 blood 467:23 blue 334: 6, 335: blueprint 437:2 board 306:3, 3 0: , 3 4: 0, 3 4: 6, 408: both 342:4, 368: 6, 384:3, 400: 3, 400: 7, 428: 9, 456:20 bottom 422:5 box 333: 7, 337:22, 338: , 338:2, 338: 8, 338: , 338: 6, 338:20,	377: 4, 377:20, 378: buttons 336: 7 C calculate 40: 9, 428:7 calculated 323: , 425:20, 450:22 calculating 328: 3, 329: 3, 425: 7 call 3 4: 0, 3 4: 6 called 394: 4 calls 3 3: 4, 3 7:20, 322: 3, 326: 4, 327: , 337: 3, 344: 6, 358:6, 358:2 , 455:5 came 438:20, 439:6	384: 7, 392:8, 397:5, 430: 4, 440:3, 454:2, 455: 8 cases 3 8: 5, 3 9: 4, 3 9: 7, 390: 7 caveats 330:2, 33: certain 3 2: 5, 3 2:20, 3 3:7, 3 5: , 3 7: , 352:4, 375: 6, 377: 6, 377: 8, 385:2 , 388:9, 444:3, 457:4 certainly 33:8, 346: 5, 373: 0, 429: 3 certainty 373: 4 certificate 467: certify
blanket 8 blood 467:23 blue 334: 6, 335: blueprint 437:2 board 306:3, 3 0: , 3 4: 0, 3 4: 6, 408: both 342:4, 368: 6, 384:3, 400: 3, 400: 7, 428: 9, 456:20 bottom 422:5 box 333: 7, 337:22, 338: , 338:2, 338: 8, 338: ,	buttons 336: 7 C calculate 40: 9, 428:7 calculated 323: , 425:20, 450:22 calculating 328: 3, 329: 3, 425: 7 call 3 4: 0, 3 4: 6 called 394: 4 calls 3 3: 4, 3 7:20, 322: 3, 326: 4, 327: , 337: 3, 344: 6, 358:6, 358:2 , 455:5 came 438:20, 439:6	440:3, 454:2, 455: 8 cases 3 8: 5, 3 9: 4, 3 9: 7, 390: 7 caveats 330:2, 33: certain 3 2: 5, 3 2:20, 3 3:7, 3 5: , 3 7: , 352:4, 375: 6, 377: 6, 377: 8, 385:2 , 388:9, 444:3, 457:4 certainly 33:8, 346: 5, 373: 0, 429: 3 certainty 373: 4 certificate 467: certify
8 colood 467:23 colue 334: 6, 335: colueprint 437:2 coard 306:3, 3 0: , 3 4: 0, 3 4: 6, 408: coth 342:4, 368: 6, 384:3, 400: 3, 400: 7, 428: 9, 456:20 cottom 422:5 cox 333: 7, 337:22, 338: , 338:2, 338:8, 338: ,	Ccalculate 40: 9, 428:7 calculated 323: , 425:20, 450:22 calculating 328: 3, 329: 3, 425: 7 call 3 4: 0, 3 4: 6 called 394: 4 calls 3 3: 4, 3 7:20, 322: 3, 326: 4, 327: , 337: 3, 344: 6, 358:6, 358:2 , 455:5 came 438:20, 439:6	455: 8 cases 3 8: 5, 3 9: 4, 3 9: 7, 390: 7 caveats 330:2, 33 : certain 3 2: 5, 3 2:20, 3 3:7, 3 5: , 3 7: , 352:4, 375: 6, 377: 6, 377: 8, 385:2 , 388:9, 444:3, 457:4 certainly 33 :8, 346: 5, 373: 0, 429: 3 certainty 373: 4 certificate 467: certify
blood 467:23 blue 334: 6, 335: blueprint 437:2 board 306:3, 3 0: , 3 4: 0, 3 4: 6, 408: both 342:4, 368: 6, 384:3, 400: 3, 400: 7, 428: 9, 456:20 bottom 422:5 box 333: 7, 337:22, 338: , 338:2, 338:8, 338: ,	C calculate 40:9,428:7 calculated 323:,425:20, 450:22 calculating 328:3,329:3, 425:7 call 3 4:0,34:6 called 394:4 calls 3 3:4,37:20, 322:3,326:4, 327:,337:3, 344:6,358:6, 358:2,455:5 came 438:20,439:6	cases 3 8: 5, 3 9: 4, 3 9: 7, 390: 7 caveats 330:2, 33 : certain 3 2: 5, 3 2:20, 3 3:7, 3 5: , 3 7: , 352:4, 375: 6, 377: 6, 377: 8, 385:2 , 388:9, 444:3, 457:4 certainly 33 :8, 346: 5, 373: 0, 429: 3 certainty 373: 4 certificate 467: certify
467:23 clue 334: 6, 335: clueprint 437:2 coard 306:3, 3 0: , 3 4: 0, 3 4: 6, 408: coth 342:4, 368: 6, 384:3, 400: 3, 400: 7, 428: 9, 456:20 cottom 422:5 cox 333: 7, 337:22, 338: , 338:2, 338:8, 338: ,	calculate 40:9,428:7 calculated 323:,425:20, 450:22 calculating 328:3,329:3, 425:7 call 3 4:0,34:6 called 394:4 calls 3 3:4,37:20, 322:3,326:4, 327:,337:3, 344:6,358:6, 358:2,455:5 came 438:20,439:6	3 8: 5, 3 9: 4, 3 9: 7, 390: 7 caveats 330:2, 33 : certain 3 2: 5, 3 2:20, 3 3:7, 3 5: , 3 7: , 352:4, 375: 6, 377: 6, 377: 8, 385:2 , 388:9, 444:3, 457:4 certainly 33 :8, 346: 5, 373: 0, 429: 3 certainty 373: 4 certificate 467: certify
Dlue 334: 6, 335: Dlueprint 437:2 Doard 306:3, 3 0: , 3 4: 0, 3 4: 6, 408: Doth 342:4, 368: 6, 384:3, 400: 3, 400: 7, 428: 9, 456:20 Dottom 422:5 DOX 333: 7, 337:22, 338: , 338:2, 338:8, 338: ,	40: 9, 428:7 calculated 323: , 425:20, 450:22 calculating 328: 3, 329: 3, 425: 7 call 3 4: 0, 3 4: 6 called 394: 4 calls 3 3: 4, 3 7:20, 322: 3, 326: 4, 327: , 337: 3, 344: 6, 358:6, 358:2 , 455:5 came 438:20, 439:6	3 9: 7, 390: 7 caveats 330:2, 33: certain 3 2: 5, 3 2:20, 3 3:7, 3 5: , 3 7: , 352:4, 375: 6, 377: 6, 377: 8, 385:2 , 388:9, 444:3, 457:4 certainly 33:8, 346: 5, 373: 0, 429: 3 certainty 373: 4 certificate 467: certify
334: 6, 335: clueprint 437:2 coard 306:3, 3 0: , 3 4: 0, 3 4: 6, 408: coth 342:4, 368: 6, 384:3, 400: 3, 400: 7, 428: 9, 456:20 cottom 422:5 cox 333: 7, 337:22, 338: , 338:2, 338:8, 338: ,	calculated 323: , 425:20, 450:22 calculating 328: 3, 329: 3, 425: 7 call 3 4: 0, 3 4: 6 called 394: 4 calls 3 3: 4, 3 7:20, 322: 3, 326: 4, 327: , 337: 3, 344: 6, 358:6, 358:2 , 455:5 came 438:20, 439:6	caveats 330:2, 33: certain 3 2: 5, 3 2:20, 3 3:7, 3 5: , 3 7: , 352:4, 375: 6, 377: 6, 377: 8, 385:2 , 388:9, 444:3, 457:4 certainly 33:8, 346: 5, 373: 0, 429: 3 certainty 373: 4 certificate 467: certify
olueprint 437:2 coard 306:3, 3 0: , 3 4: 0, 3 4: 6, 408: coth 342:4, 368: 6, 384:3, 400: 3, 400: 7, 428: 9, 456:20 cottom 422:5 cox 333: 7, 337:22, 338: , 338:2, 338:8, 338: ,	323: , 425:20, 450:22 calculating 328: 3, 329: 3, 425: 7 call 3 4: 0, 3 4: 6 called 394: 4 calls 3 3: 4, 3 7:20, 322: 3, 326: 4, 327: , 337: 3, 344: 6, 358:6, 358:2 , 455:5 came 438:20, 439:6	330:2, 33: certain 3 2: 5, 3 2:20, 3 3:7, 3 5:, 3 7: , 352:4, 375: 6, 377: 6, 377: 8, 385:2 , 388:9, 444:3, 457:4 certainly 33:8, 346: 5, 373: 0, 429: 3 certainty 373: 4 certificate 467: certify
437:2 coard 306:3, 3 0: , 3 4: 0, 3 4: 6, 408: coth 342:4, 368: 6, 384:3, 400: 3, 400: 7, 428: 9, 456:20 cottom 422:5 cox 333: 7, 337:22, 338: , 338:2, 338:8, 338: ,	450:22 calculating 328: 3, 329: 3, 425: 7 call 3 4: 0, 3 4: 6 called 394: 4 calls 3 3: 4, 3 7:20, 322: 3, 326: 4, 327: , 337: 3, 344: 6, 358:6, 358:2 , 455:5 came 438:20, 439:6	certain 3 2: 5, 3 2:20, 3 3:7, 3 5: , 3 7: , 352:4, 375: 6, 377: 6, 377: 8, 385:2 , 388:9, 444:3, 457:4 certainly 33 :8, 346: 5, 373: 0, 429: 3 certainty 373: 4 certificate 467: certify
moard 306:3, 3 0: , 3 4: 0, 3 4: 6, 408: moth 342:4, 368: 6, 384:3, 400: 3, 400: 7, 428: 9, 456:20 moth 422:5 mox 333: 7, 337:22, 338: , 338:2, 338:8, 338: ,	calculating 328: 3, 329: 3, 425: 7 call 3 4: 0, 3 4: 6 called 394: 4 calls 3 3: 4, 3 7:20, 322: 3, 326: 4, 327: , 337: 3, 344: 6, 358:6, 358:2 , 455:5 came 438:20, 439:6	3 2: 5, 3 2:20, 3 3:7, 3 5: , 3 7: , 352:4, 375: 6, 377: 6, 377: 8, 385:2 , 388:9, 444:3, 457:4 certainly 33 :8, 346: 5, 373: 0, 429: 3 certainty 373: 4 certificate 467: certify
306:3, 3 0: , 3 4: 0, 3 4: 6, 408: both 342:4, 368: 6, 384:3, 400: 3, 400: 7, 428: 9, 456:20 bottom 422:5 box 333: 7, 337:22, 338: , 338:2, 338:8, 338: ,	328: 3, 329: 3, 425: 7 call 3 4: 0, 3 4: 6 called 394: 4 calls 3 3: 4, 3 7:20, 322: 3, 326: 4, 327: , 337: 3, 344: 6, 358:6, 358:2 , 455:5 came 438:20, 439:6	3 3:7, 3 5: , 3 7: , 352:4, 375: 6, 377: 6, 377: 8, 385:2 , 388:9, 444:3, 457:4 certainly 33 :8, 346: 5, 373: 0, 429: 3 certainty 373: 4 certificate 467: certify
3 4: 0, 3 4: 6, 408: both 342:4, 368: 6, 384:3, 400: 3, 400: 7, 428: 9, 456:20 bottom 422:5 box 333: 7, 337:22, 338: , 338:2, 338:8, 338: ,	425: 7 call 3 4: 0, 3 4: 6 called 394: 4 calls 3 3: 4, 3 7:20, 322: 3, 326: 4, 327: , 337: 3, 344: 6, 358:6, 358:2 , 455:5 came 438:20, 439:6	3 7: , 352:4, 375: 6, 377: 6, 377: 8, 385:2 , 388:9, 444:3, 457:4 certainly 33 :8, 346: 5, 373: 0, 429: 3 certainty 373: 4 certificate 467: certify
408: both 342:4, 368: 6, 384:3, 400: 3, 400: 7, 428: 9, 456:20 bottom 422:5 box 333: 7, 337:22, 338: , 338:2, 338:8, 338: ,	425: 7 call 3 4: 0, 3 4: 6 called 394: 4 calls 3 3: 4, 3 7:20, 322: 3, 326: 4, 327: , 337: 3, 344: 6, 358:6, 358:2 , 455:5 came 438:20, 439:6	375: 6, 377: 6, 377: 8, 385:2, 388:9, 444:3, 457:4 certainly 33:8, 346: 5, 373: 0, 429: 3 certainty 373: 4 certificate 467: certify
342:4, 368: 6, 384:3, 400: 3, 400: 7, 428: 9, 456:20 bottom 422:5 box 333: 7, 337:22, 338: , 338:2, 338:8, 338: ,	call 3 4: 0, 3 4: 6 called 394: 4 calls 3 3: 4, 3 7:20, 322: 3, 326: 4, 327: , 337: 3, 344: 6, 358:6, 358:2 , 455:5 came 438:20, 439:6	377: 8, 385:2, 388:9, 444:3, 457:4 certainly 33:8, 346: 5, 373: 0, 429: 3 certainty 373: 4 certificate 467: certify
342:4, 368: 6, 384:3, 400: 3, 400: 7, 428: 9, 456:20 bottom 422:5 box 333: 7, 337:22, 338: , 338:2, 338:8, 338: ,	called 394: 4 calls 3 3: 4, 3 7:20, 322: 3, 326: 4, 327: , 337: 3, 344: 6, 358:6, 358:2 , 455:5 came 438:20, 439:6	388:9, 444:3, 457:4 certainly 33:8, 346:5, 373:0, 429:3 certainty 373:4 certificate 467: certify
384:3, 400: 3, 400: 7, 428: 9, 456:20 bottom 422:5 box 333: 7, 337:22, 338: , 338:2, 338:8, 338: ,	called 394: 4 calls 3 3: 4, 3 7:20, 322: 3, 326: 4, 327: , 337: 3, 344: 6, 358:6, 358:2 , 455:5 came 438:20, 439:6	457:4 certainly 33:8,346:5, 373:0,429:3 certainty 373:4 certificate 467: certify
400: 7, 428: 9, 456:20 bottom 422:5 box 333: 7, 337:22, 338: , 338:2, 338:8, 338: ,	394: 4 calls 3 3: 4, 3 7:20, 322: 3, 326: 4, 327: , 337: 3, 344: 6, 358:6, 358:2 , 455:5 came 438:20, 439:6	certainly 33:8,346:5, 373:0,429:3 certainty 373:4 certificate 467: certify
400: 7, 428: 9, 456:20 bottom 422:5 box 333: 7, 337:22, 338: , 338:2, 338:8, 338: ,	calls 3 3: 4, 3 7:20, 322: 3, 326: 4, 327: , 337: 3, 344: 6, 358:6, 358:2 , 455:5 came 438:20, 439:6	33 :8, 346: 5, 373: 0, 429: 3 certainty 373: 4 certificate 467: certify
456:20 bottom 422:5 box 333: 7, 337:22, 338: , 338:2, 338:8, 338: ,	3 3: 4, 3 7:20, 322: 3, 326: 4, 327: , 337: 3, 344: 6, 358:6, 358:2 , 455:5 came 438:20, 439:6	373: 0, 429: 3 certainty 373: 4 certificate 467: certify
oottom 422:5 oox 333: 7, 337:22, 338: , 338:2, 338:8, 338: ,	322: 3, 326: 4, 327: , 337: 3, 344: 6, 358:6, 358:2 , 455:5 came 438:20, 439:6	certainty 373: 4 certificate 467: certify
422:5 box 333: 7, 337:22, 338: , 338:2, 338:8, 338: ,	327: , 337: 3, 344: 6, 358:6, 358:2 , 455:5 came 438:20, 439:6	certainty 373: 4 certificate 467: certify
333: 7, 337:22, 338: , 338:2, 338:8, 338: ,	344: 6, 358:6, 358:2, 455:5 came 438:20, 439:6	373: 4 certificate 467: certify
333: 7, 337:22, 338: , 338:2, 338:8, 338: ,	358:2 , 455:5 came 438:20, 439:6	certificate 467: certify
338: , 338:2, 338:8, 338: ,	came 438:20, 439:6	467: certify
338:8, 338: ,	438:20, 439:6	certify
1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
	can't	467:4, 467: 2,
339:6, 339:8,	3 8:6, 320: 9,	467: 6, 467:22
339: 0, 339: 3,	340: 6, 34:3,	cetera
34 :8, 34 : ,	34 : 3, 34 : 2 ,	382: 9
34 : 2	344:2, 4 : 8	chamber
oreak	cannot	323: 3, 323: 7,
33 : 2, 350: 4,	340: 7, 34 :6,	323:22, 328: ,
367:5, 367:9,	342: 8, 343:7,	328:5, 336:4,
380:5, 380: ,		336:6, 425:2
44 :20, 452: 7,		chambers
		336:3
orief		change
164:4. 464: 3		3 7: 8, 3 9:9,
		3 9: 0, 320:4,
		372:5, 372: 6
		changed
		3 6: 8, 370: 5,
	carefully	
	405:9, 447: 6	37:3, 37:20,
	case	372:8, 38 :8,
	306: 3, 306: 4,	383:3
		changes
354: , 376:22,	377: , 384:9.	389: 2, 390: 2,
377:9, 377: 0,		390: 8, 390:20,
	14 :20, 452: 7, 154: 0, 455:2 brief 164:4, 464: 3 broad 8 8:5 browse 162: 0 bugs 1896:6 bullet 1852:6, 354:5,	380:5, 380: , 344:9, 346:2 , 349: 5 347:8 347:8 347:8 348:5 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 347:8 36:22 36:22 36:21 37:384:9

393:2, 393:22, 323:9, 324: 0, 324:5, 324: 0, 336:20, 336:20, 324:5, 324: 8, 336:22, 337: 324:22, 325: 2, 347: 7 392:8, 392:7, 398: 3, 399: , 326:4, 326: , 232: 8, 323: 8 classify 392: 393:3, 393: 5 commercially 392: 8, 393: 5 commercially 393: 8 sommercially 393: 8 sommerci	390:22, 393:20,	322:2 , 323:8,	clarify	comments
394: 4, 396: , 324: 5, 324: 0, 326: 0, 326: 2, 397: , 324: 22, 325: 2, 397: 6, 398: , 325: 20, 325: 2, 398: 399: , 326: 4, 326: , 328: 7, 328: 7, 328: 2, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329:				
396: 29, 396: 20, 324: 5, 324: 8, 347: 7 397: 6, 398: , 324: 22, 325: 2, clause 397: 6, 398: , 325: 20, 325: 2, clause 398: 3, 399: , 326: 4, 326: , 327: 3, 327: 5, 328: 8 398: 3, 399: , 327: 3, 327: 5, 328: 8 398: 3, 399: , 327: 3, 327: 5, 328: 7, 462: 3, 459: 3 150: 4, 454: 8 328: 2, 328: 5, 329: 8, 462: 9 160: 0, 424: 7 329: 4, 329: 8, 462: 9 160: 0, 424: 7 356: 6, 356: 9, 356: 20, 357: 5, 358: 7, 358: 7, 358: 7, 358: 7, 358: 7, 358: 7, 358: 7, 358: 7, 358: 7, 358: 7, 358: 7, 358: 7, 358: 7, 358: 7, 358: 7, 358: 7, 358: 7, 358: 7, 358: 7, 358: 7, 358: 7, 358: 7, 358: 7, 358: 7, 358: 7, 358: 7, 358: 7, 358: 7, 358: 7, 358: 7, 360: 0, 375: 9, 405: 7, 340: 9, 37: 8, 366: 6, 452: 8 375: 9, 405: 7, 406: 5, 408: 9, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421: 2, 421:	394: 4, 396: ,	324:5, 324: 0,		
396:22, 397: , 324:22, 325: 2 , 347: 7	396: 9, 396:20,	324: 5, 324: 8,	classify	
197:6, 398: , 325:20, 325:2 , 323:8 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 393:5 39	396:22, 397: ,	324:22, 325: 2,	347: 7	
388: 3, 399: , 326:4, 326: , 327: 5, 327: 5, 327: 5, 328: 7, 328: 7, 328: 7, 328: 7, 328: 7, 328: 7, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 329: 8, 3		325:20, 325:2,	clause	392:22, 393:3,
10: , 44: 9 327:3, 327: 5, 32: 6, 328: 7, 32: 9, 330: 2, 45: 328: 2, 328: 5, 36: 9, 36: 2, 329: 4, 329: 8, 36: 6, 355: 9 356: 20, 357: 5, 366: 6, 452: 8 406: 5, 408: 9, 408: 2, 424: 5, 426: 22, 428: 9, 42: 4, 42: 9 636: 6, 356: 2, 314: 32: 9 408: 2, 42: 4, 42: 9 636: 6, 35: 2, 33: 14: 3 32: 33: 14: 3 32: 33: 14: 3 32: 33: 14: 3 32: 33: 14: 3 32: 33: 14: 3 32: 33: 14: 3 32: 33: 14: 3 32: 33: 14: 3 32: 33: 14: 3 32: 33: 14: 3 32: 33: 14: 3 32: 33: 14: 3 32: 33: 14: 3 32: 33: 14: 3 32: 33: 14: 3 32: 33: 14: 3 32: 33: 14: 3 32: 33: 14: 3 32: 33: 14: 3 32: 33: 14: 3 32: 33: 14: 3 32: 33: 14: 3 32: 33: 14: 3 32: 33: 14: 3 32: 33: 14: 3 32: 33: 14: 3 32: 33: 14: 3 32: 33: 33: 14: 3 32: 33: 33: 14: 3 32: 33: 33: 14: 3 32: 33: 33: 14: 3 32: 33: 33: 33: 14: 3 32: 33: 33: 33: 33: 33: 33: 33: 33: 33:	398: 3, 399: ,	326:4, 326: ,	323: 8	
		327:3, 327: 5,		commercially
150: 4, 454: 8 328: 2, 328: 5,	characterization	327: 6, 328:7,	3 2:9, 330:2 .	459: 3
## ## ## ## ## ## ## ## ## ## ## ## ##	150: 4, 454: 8	328: 2, 328: 5,		commission
16 19 36 12 2 329 2 329 7 3 2 2 384 3 3 3 349 3 3 2 2 329 3 3 3 3 349 3 3 2 2 3 3 3 3 3 3				467:34
109: 0, 424:7 33 : 0, 349:3, 356: 6, 356: 9, 356: 20, 357: 5, 357: 3, 357: 22, 335: 6, 335: 7, 395: 22 376: 66: 66: 6, 452: 8 375: 9, 405: 7, 406: 5, 408: 9, 42: 2, 424: 5, 426: 22, 424: 5, 426: 22, 424: 5, 426: 22, 424: 2, 42: 9 42: 12 42: 4, 42: 9 42: 12 42: 4, 42: 9 42: 13 42: 4, 42: 9 42: 13 42: 4, 42: 9 42: 13 42: 4, 42: 9 42: 13 42: 4, 42: 9 42: 13 42: 4, 42: 9 42: 13 42: 13 42: 13 42: 13 42: 13 42: 14 43: 13 320: 1, 320: 3, 320: 3, 320: 6, 320: 7, 330: 5, 36: 2, 320: 3, 320: 3, 320: 4, 32: 9, 330: 4, 32: 9, 330: 4, 32: 9, 330: 4, 32: 9, 330: 9, 343: 9 367: 6, 454: 5 366: 8, 36: 6, 320: 7, 320: 3, 320: 3, 320: 6, 320: 7, 320: 3, 320: 3, 320: 6, 320: 7, 320: 3, 320: 3, 320: 6, 320: 7, 320: 3, 320: 3, 320: 6, 320: 7, 320: 3, 320: 3, 320: 6, 320: 7, 320: 3, 320: 3, 320: 6, 320: 7, 320: 3, 320: 3, 320: 6, 320: 7, 320: 3, 320: 3, 320: 6, 320: 7, 320: 3, 320: 3, 320: 6, 320: 7, 320: 3, 320: 3, 320: 6, 320: 7, 320: 3, 320: 3, 320: 6, 320: 7, 320: 3, 320: 3, 320: 6, 320: 7, 320: 3, 320: 6, 320: 7, 320: 3, 320: 6, 320: 7, 320: 3, 320: 6, 320: 7, 320: 3, 320: 6, 320: 7, 320: 3, 320: 6, 320: 7, 320: 3, 320: 6, 320: 7, 320: 3, 320: 6, 320: 7, 320: 3, 320: 6, 320: 7, 320: 3, 320: 6, 320: 7, 320: 3, 320: 6, 320: 7, 320: 3, 320: 6, 320: 7, 320: 3, 320: 6, 320: 7, 320: 3, 320: 6, 320: 7, 320: 3, 320: 6, 320: 7, 320: 3, 320: 6, 320: 7, 320: 3, 320: 6, 320: 7, 320: 3, 320: 6, 320: 7, 320: 3, 320: 6, 320: 7, 320: 3, 320: 6, 320: 7, 320: 3, 320: 7, 320: 3, 320: 7, 320: 3, 320: 7, 320: 3, 320: 7, 320: 3, 320: 7, 320: 3, 320: 7, 320: 3, 320: 7, 320: 3, 320: 7, 320: 3, 320: 7, 320: 3, 320: 7, 320: 3, 320: 7, 320: 3, 320: 7, 320: 3, 320: 7, 320: 3, 320: 7, 320: 3, 320: 7, 320: 3, 320: 7, 320: 3, 320: 7, 320: 3, 320: 7, 320: 3, 320: 7, 320: 3, 320: 7, 320: 3, 320: 7, 320: 3, 320: 7, 320: 3, 320: 7, 320: 3, 320: 7, 320: 3, 320: 7, 320: 3, 320: 7, 320: 3, 320: 7, 320: 3, 320: 7, 320: 3, 320: 7, 320: 3, 320: 7, 320: 3, 320: 7, 320: 3, 320: 7, 320: 3, 3	6 :9, 36 : 2,	329: 2, 329: 7,	The state of the s	commonly
communication 356: 6, 356: 9, 356:20, 357:5, 355: 9 356:20, 357:5, 355: 9 356:20, 357:5, 355: 9 356:20, 357:5, 355: 9 358: , 358: , 7, 340: 9, 37: 8, 395:22 366:6, 452: 8 375: 9, 405: 7, 406:5, 408: 9, 4 3: 9, 37: 8, 38: 6, 382: 8 36: 6, 452: 8 406:5, 408: 9, 4 3: 9, 37: 8, 38: 6, 382: 8 36: 6, 452: 8 406:5, 408: 9, 4 3: 9, 4 3: 0, 4 47: 6 408: 2, 409: 4, 42: 2, 233: 2 32: , 365: 2, 333: 2 424: 5, 426: 22, 43: 9, 430: 8, 430: 7, 430: 22, 43: 9, 430: 8, 430: 7, 430: 22, 43: 9, 430: 8, 430: 7, 430: 22, 43: 9, 430: 8, 430: 7, 430: 22, 43: 9, 430: 8, 430: 7, 430: 22, 43: 9, 430: 8, 430: 7, 430: 22, 43: 9, 430: 8, 430: 7, 430: 22, 43: 9, 430: 8, 430: 7, 430: 22, 43: 9, 430: 8, 430: 7, 430: 22, 43: 9, 430: 8, 430: 7, 430: 22, 43: 9, 430: 8, 430: 7, 430: 22, 43: 9, 430: 8, 430: 7, 430: 22, 43: 9, 430: 8, 430: 7, 430: 22, 43: 9, 430: 8, 430: 7, 430: 22, 43: 9, 430: 8, 430: 7, 430: 22, 43: 9, 430: 8, 430: 7, 430: 22, 43: 9, 430: 8, 430: 7, 430: 22, 43: 9, 430: 8, 430: 7, 430: 22, 43: 9, 430: 8, 430: 7, 430: 22, 43: 9, 430: 8, 430: 7, 430: 22, 43: 9, 430: 8, 430: 7, 430: 22, 43: 9, 430: 8, 430: 7, 430: 24, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 9, 42: 4, 42: 4, 42: 4, 42: 4, 42: 4, 42: 4, 42: 4, 42: 4, 42: 4, 42: 4, 42: 4, 42: 4, 42: 4, 42: 4, 42: 4, 42: 4, 42: 4, 42: 4, 42: 4, 42: 4, 42: 4, 42: 4, 4		33: 0, 349:3,	The state of the s	
356:20, 357:5, 356:20, 357:5, 357:22, 340:9, 37:8, 395:22 community 395:22 compare 386:66, 452: 8 375: 9, 405: 7, 406:5, 408:9, 406:5, 408:9, 42: 7, 42: 2, checking 42: 7, 42: 2, cherry-picked 430:8, 430: 7, 433:9, 432: 9, 434: 9, 434: 9 claimed 40:66, 420: 2, 42: 4, 42: 9 claimed 40:66, 432: 8 35: 3, 38: 3, 38: 6, 337: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 8, 37: 9, 37: 6, 32: 8, 32: 3, 32: 3, 33: 1, 345: 5, 32: 2, 32: 3, 32: 3, 32: 3, 32: 3, 32: 3, 32: 3, 32: 3, 32: 3, 32: 3, 32: 3, 32: 3, 32: 3, 32: 3, 32: 3, 32: 3, 32: 3, 32: 3, 32: 3, 32: 3, 32: 3, 32: 3, 32: 3, 32: 3, 33: 2, 35: 3, 32: 3, 33: 2, 35: 3, 32: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3, 33: 3		356: 6, 356: 9,		communication
## 357: 3, 357:22, 335: 6, 335: 7, 395:22 ## 358: 7, 358: 7, 340: 9, 37: 8, 395: 22 ## 375: 9, 405: 7, 387: 5, 387: 7, 38 : 6, 382: 8 ## 2006: 6, 452: 8 ## 375: 9, 405: 7, 387: 5, 387: 7, 38 : 6, 382: 8 ## 2006: 6, 452: 8 ## 375: 9, 405: 7, 387: 5, 387: 7, 38 : 6, 382: 8 ## 2006: 6, 452: 8 ## 375: 9, 405: 7, 387: 5, 387: 7, 38 : 6, 382: 8 ## 2006: 7, 408: 9, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3: 0, 4 3	355:6, 355:9	356:20, 357:5,		
358: , 358: 7, 340: 9, 37: 8, 395:22 compare 366:6, 452: 8 375: 9, 405: 7, 387: 5, 387: 7, 38: 6, 382: 8 408: 2, 409: 4, 49: , 422: 22 compare 32: , 365: 2, 363: 2 424: 5, 426: 22, 43: 9, 406: 7, 42: 2, 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 2 42: 4 42: 9 42: 4 42: 9 42: 4 42: 9 42: 4 42: 9 42: 4 42: 9 42: 44: 42: 9 42: 44: 42: 9 42: 44: 42: 9 42: 44: 42: 9 42: 44: 42: 9 42: 44: 42: 9 42: 44: 42: 9 42: 44: 42: 9 42: 44: 42: 9 42: 44: 42: 9 42: 44: 42: 9 42: 44: 42: 9 42: 44: 42: 9 42: 44: 42: 9 42: 44: 42: 9 42: 44: 42: 9 42: 44: 42: 9 42: 44: 42: 9 42: 44: 42: 9 42: 44: 42: 9 42: 44: 44: 9 42: 44: 42: 9 42: 44: 44: 9 42: 44: 44: 9 42: 44: 44: 9 42: 44: 44: 9 42: 44: 44: 9 42: 44: 44: 9 42: 44: 44: 9 42: 44: 44: 9 42: 44: 44: 9 42: 44: 44: 9 42: 44: 44: 9 42: 44: 44: 9 42: 44: 44: 9 42: 44: 44: 9 42: 44: 44: 9 42: 44: 44: 9 42: 44: 44: 9 42: 44: 44: 9 42: 44: 44: 9 42: 44: 44: 9 42: 44: 44: 9 42: 44: 44: 9 42: 44: 44: 9 42: 44: 44: 9 42: 44: 44: 9 42: 44: 44: 44: 9 42: 44: 44: 44: 9 42: 44: 44: 44: 9 42: 44: 44: 44: 44: 44: 44: 44: 44: 44:				
Sibeck 358: 8, 359:4, 375: 9, 405: 7, 376: 5, 387: 7, 38: 6, 382: 8 compare 366:6, 452: 8 406:5, 408:9, 406:5, 408:9, 408:2, 409:4, 43:9, 43:0, 42:222 32:, 365:2, checking 42: 7, 42: 2, clearly 384:22 32:, 365:2, s33:2 424: 5, 426:22, 323: 8 comparing s33:2 430:8, 430: 7, 430:82: 43: 9, 430:82: 43: 9, cherry-picked 430:22, 43: 9, 374: 0, 436: 3 comparing choosing 40:6, 420: 2, coached 36: 8, 36: 6, sircumstantial 40:6, 420: 2, coaching 409: 9 site 35: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: , 38: ,				The state of the s
375: 9, 405: 7, 406: 5, 408:9, 406: 5, 408:9, 42: 7, 42: 2, 424: 5, 426: 22, 43: 8, 430: 7, 430: 22, 43: 9, 436: 3, 36: 8, 36: 6, 382: 8, 365: 2, 365: 2, 365: 3, 36: 3, 38: 6, 382: 8, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 2, 365: 3, 36: 2, 365: 3, 36: 2, 365: 3, 36: 2, 365: 3, 36: 2, 365: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3, 36: 3,				Part of the second
## 106:5, 408:9, 408:4, 49: , 42:22 32: , 365:2, 383:2 ## 108:2, 409:4, 49: , 42:22 32: , 365:2, 383:2 ## 108:2, 409:4, 49: , 42:22 32: , 365:2, 383:2 ## 108:2, 409:4, 49: , 422:22 32: , 365:2, 383:32 ## 108:2, 430:8, 430: 7, 430:22, 43:9, 430:8, 430: 7, 430:22, 43:9, 430:8 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5 ## 108:4: 5				
## 47: 6	Control of the Contro			
2		408:2 , 409:4,	4 9: 422:22	
244: 5, 426:22, 430:8, 430: 7, 430:22, 43:9, 432:9 21		42 : 7, 42 : 2 ,	clearly	
## date	And the second s	424: 5, 426:22,		
## 430:22, 43:9, 436: 3 ## 45: 40:6, 420: 2, 42: 43: 9 ## 434: 9 ## 434: 9 ## 434: 9 ## 434: 9 ## 434: 9 ## 436: 3 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 40: 6, 420: 2, 42: 43: 9 ## 45: 6 ## 45: 6 ## 45: 9 ## 45: 6 ## 40: 6, 420: 2, 42: 43: 9 ## 45: 6 ## 45: 9 ## 45: 6 ## 45: 9 ## 45: 6 ## 45: 9 ## 45: 6 ## 45: 9 ## 45: 6 ## 45: 9 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 9 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ## 45: 6 ##			7.7.7.1.12	
## choosing claimed ## coached ##				
claimed 4 0:6, 420: 2, 42:4, 42: 9 claims 365: , 365: 8, 3 8: 3, 3 8: 6, 3 8: 2, 3 9: 3, 320: , 320: 3, 320: , 320: 3, 320: 2, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3, 32: 3, 320: 3				
circumstantial 397:4, 434:9 claims 365: , 365: 8, 365: 2 cited 38:2, 3 9: 3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320:3, 320: , 320: , 320:3, 320: , 320: , 320: , 320: , 320: , 320: , 320: , 320: , 320: , 320: , 320: , 320: , 32		claimed		
397:4, 434:9 claims 397:4, 434:9 claims 365: , 365: 8, 3 8: , 3 8: , 3 8: , 337: 5, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 382: 2, 38		4 0:6, 420: 2,		
claims 3 5: , 3 8: , 3 65: 2				
3 5: , 3 8: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3 3: , 3				
3 8: 3, 3 8: 6, 3 37: 9, 337: 6, 3 39: 22 3 8: 3, 3 8: 6, 3 38: 9, 345: 5 3 8: 2, 3 9: 3, 38: 9, 345: 5 3 8: 2, 3 9: 3, 38: 9, 345: 5 3 8: 3, 3 8: 6, 3 38: 9, 345: 5 3 8: 3 3 30: 3, 3 38: 9, 345: 5 3 8: 3 3 30: 3, 3 38: 9, 345: 5 3 8: 3 3 30: 3, 3 38: 9, 345: 5 3 8: 3 3 30: 3, 3 38: 9, 345: 5 3 8: 3 3 30: 3, 3 38: 9, 345: 5 3 8: 3 3 30: 3, 3 30: 3, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3 30: 4, 3		3 5: . 3 8: .		
3 8:2 , 3 9: 3, 3 37: 9, 337: 9, 338:9, 345: 5 cited 4 4:3 20: , 320: 3, 320: 3, 320: 3, 320: 2, 32: 3, 320: 2, 32: 3, 320: 2, 32: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3, 320: 3,				
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320:2, 32:3, 345:3, 40:22 comes 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 32:3, 33:3, 32:3, 33:3, 32:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3, 33:3				
32: 8, 325:3, 326: 8, 327:7, 328: 0, 330:4, 327: 7, 328: 0, 330:4, 327: 7, 328: 0, 330:4, 328: 0, 330:4, 328: 0, 330:4, 328: 0, 330:4, 338: 0, 330:4, 338: 0, 330:4, 338: 0, 330:4, 338: 0, 330:4, 338: 0, 330:4, 338: 0, 330:4, 338: 0, 330:4, 338: 0, 330:4, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0, 338: 0,				
36: 8, 327:7, 328: 0, 330:4, 37: 4, 37: 7, 328: 0, 330:4, 33: 2, 354: 2, 375: 2, 394: 4, 405: 6, 406: 6, 39: 8, 39: 20, 408: 8, 424: 6, 426: 22, 428: 9, 322: 3, 322: 4, 429: , 448: 8 clarification 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 3			100,600,00	
328: 0, 330:4, 37: 7, 33:2, 354: 2, 375:2, 394:4, 405: 6, 406:6, 408: 8, 424: 6, 426:22, 428: 9, 322: 3, 322: 4, 429: , 448: 8 commands 32: 0, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 336: 2 328: 0, 330:4, 330:4, 306: 0 compliance 343: , 343:4 complicated 343: 8 commands 35: 5 commands 35: 5 commands 36: 32: 0, 33: 22, 332: 6, 322: 9, 332: 6, 322: 9, 332: 5, 332: 6, 322: 9, 332: 6, 322: 9, 333: 32: 7 commencing 337: 2, 338: 3, 332:				
33:2, 354:2, 375:2, 394:4, 306:0 343:, 343:4 compliance 349:3, 39:5, 405:6, 406:6, 408:8, 424:6, 32:3, 32:2, 428:9, 32:3, 322:4, 429:, 448:8 commands 32:0, 32:9, 32:6, 322:9, 322:6, 322:9, 322:6, 322:9, 322:6, 322:9, 332:6, 322:9, 332:6, 322:9, 332:6, 322:9, 332:6, 322:9, 333:2, 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 332:8, 336: 33				4 4: 4, 4 5: 6
38: , 38: 7, 375:2, 394:4, 405: 6, 406:6, 408: 8, 424: 6, 426:22, 428: 9, 322:3, 322:4, 429: , 448: 8 clarification 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 332: 6, 322: 9, 332: 6, 322: 9, 333: 22, 333: 332: 6, 323: 9, 333: 22, 333: 333: 22, 333: 333: 333:				
3 9:3, 3 9:5, 405:6, 406:6, 408:8, 424:6, 426:22, 428:9, 322:3, 322:4, 429:, 448:8 clarification 4 6:2 commands 32:3, 332:5, 332:6, 322:9, 46:2 commencement 46:2 commencement 46:2 commencement 46:2 commencement 46:2 commencement 46:2 sommencement			306: 0	343: , 343:4
3 9: 8, 3 9: 20, 408: 8, 424: 6, 426: 22, 428: 9, 322: 3, 322: 4, 429: , 448: 8 commands 336: 32: 0, 33: 22, 332: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 332: 6, 322: 9, 332: 6, 322: 9, 333: 22, 333: 332: 5, 332: 6, 323: 9, 333: 2, 333: 3, 333: 2, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333: 3, 333	3 9:3, 3 9: 5,			complicated
32:, 32:2, 426:22, 428: 9, 429:, 448: 8 336: 32: 0, 32: 5, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 322: 6, 322: 9, 332: 6, 322: 9, 332: 6, 322: 9, 332: 6, 322: 9, 332: 8, 336: 7, 20mmencing 337: 2, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3, 338: 3,			4 3: 8	3 5: 5
322:3, 322:4, 322:6, 322:9, 322: 0, 322: 5, 322: 6, 322: 9, 322: 6, 322: 9, 336: commencement 46: 2 336: commencement 46: 2 332: 3, 332: 5, 332: 8, 336: , 332: 8, 336: , 333: 22, 332: 3, 332: 5, 332: 3, 332: 5, 332: 3, 332: 5, 333: 3, 332: 5,	32 : , 32 :2,			
322:6, 322:9, clarification 4 6: 2 commencement 332:3, 332:5, 332:6, 322: 6, 322: 9, 332: 6, 322: 9, 337:2, 338:3,	322:3, 322:4,		336:	
322: 0, 322: 5, 467:7 332:8, 336: , 322: 6, 322: 9, commencing 337:2, 338:3,			TOTAL TANKS OF THE PARTY OF THE	
322: 6, 322: 9, 4 6: 2 commencing 337:2, 338:3,				332:8, 336:
		4 0; 2		337:2 . 338:3.
307.6 467.20			307:6, 467:20	55,12 / 550.5/

352:2, 376: 0,	conducting	contentions	389:9, 395:7,
393: 4	342: 6	3 7: 3, 324:7,	397: 7, 406: 5,
comply	confer	324: , 324: 4,	4 0:5, 4 0:8,
343: 4, 343: 8,	, 6	324: 7, 325:5,	42 : 0, 43 :8
343:2 , 344: 3,	confidential	325: 0, 33:20,	controller
344: 8	4 6:3, 4 9:7	355: 9, 356: 0,	333: 2, 436:
component	confidentiality	362: 9, 363:5,	controls
339: 5, 34 :2,	4 4: 9, 4 5: ,	368:7, 368:9,	336:2
34: , 342: ,	4 5:2 , 4 6: ,	369: 3, 369: 4,	convenience
345:	4 6:6, 453:2	369: 6, 369:20,	394: 8, 398:2,
components	configured	369:22, 372:9,	406: 0
338:7, 345:9,	327:20, 328:2	4 4:3, 4 6:8,	conversation
346: 3, 405: 3	confirm	4 6: , 423: 2,	368:20
comprises	325: 2, 325: 9,	424: 9, 426: 8,	copied
338: 6	333:2, 338:8,	427: , 429: 4,	375:22
computed	372: , 372: 8,	444:20, 444:22,	copies
45 :3, 45 :5	376:2 , 424:22,	445:3, 445:5,	380:20
computer	457:22	445:7, 445:2 ,	copy
347: , 380:2 ,	considerations	6, 68,	309:8, 440: 5,
392: 6, 400: 2,	375: 2, 375: 5,	446: 5, 446:20,	442: 4, 462: 3
400: 8	375: 7, 375:20,	447: , 447:5,	copying
concept	375:2 , 453:22	447: 0, 447: 3,	359:8, 359: 7,
340:2	considered	447: 8, 448: ,	360: , 360:2,
conclude	357:9, 375: 7,	448:20, 452:2,	36 :2, 36 :5,
408:22	383:20	454:3, 456: 6	36: 5, 362: 5,
concluded	consisted	context	363:5, 363: 3,
3 : 9, 3 :2,	443:2	3 3:3, 3 3:5,	364: , 364: 6,
3 : 9, 3 :2, 465:5	constituting	3 4: 8, 3 4:2,	365: 0, 377:8,
concludes	42 :8	365:8, 434: 3	40 :6, 402:20,
		continue	403:2, 432: 6,
464: 0	consult	350: 8, 374: 3	432:20, 434:9,
conclusion	4 2: 0	continues	432:20, 434:9, 440:5, 440:9,
322: 3, 326: 4,	contain	3 4:	440:5, 440: 9,
327:	445:7, 453: 0,	continuing	
conclusions	459: 0	6	corporation
3 3: 4, 380: ,	contained	control	306:9, 306: 0,
406: 2	420:3, 423: ,	333: 7, 336:9,	3 0:8, 3 :5, 467: 3
conclusively	425: 4, 427: 5,	336: 6, 337:4,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
357:4, 359:3	427:20, 429: 6,	337:9, 337: 9,	correct
conditions	437:4, 438:20,	337:22, 338: ,	3 5:22, 3 6:4,
34 :2	439:6, 444: 9,	338:2, 338:8,	3 7: 4, 3 7: 5,
conduct	454:2, 454: 2	338: , 338: 6,	322: 0, 322: ,
402:6, 404: 3,	contains	338:20, 339:6,	325: , 325:2,
404:22, 420:4,	426:2, 426:6,	339:8, 339: 0,	326:2, 327:9,
457:22	459:9	339: 3, 34:8,	330: 2, 333: 3,
conducted	content	34: 0, 34: 2,	333: 5, 333: 7,
356:8, 356: 3,	445:2, 447:9,	345: 7, 345: 8,	335:6, 335:9,
374:7, 403: 3,	447: 2, 447: 7	387: , 389:5,	335: 4, 336:3,
405: , 405:5	contention	307. , 309.3,	336:9, 336: 3,
	445: 8		

337:4, 337: ,	350:5, 35 :20,	courts	december
337:22, 338: 2,	356:7, 356: 2,	4 3:7	306:2 , 307:5,
338:2 , 339:5,	356: 8, 359: ,		
		cover	3 0: 4, 467:20,
339: , 339: 3,	359: 9, 36 :5,	, 8	467:30
339: 5, 34 : 2,	367:9, 376: ,	covering	decide
343:2, 345: 9,	380:2, 4 5: 9,	37 :3	460: 9
345:2 , 346: ,	423: 5, 424: ,	create	decided
349:7, 35 :2 ,	424:22, 426: 5,	327: 8, 355:9	397:
352:6, 354: 8,	432:22, 435: 2,	created	decision
358:2, 358: 9,	435: 9, 436:3,	396: 8	353:7, 353: 2
359:9, 359: 7,	445: 2, 457:7,	creates	declaration
360: , 363:6,	462:	437:8	35 :2 , 353:20,
363: 4, 363: 8,	couldn't	cross	354:6, 360: 4,
364: , 364:20,	349:6, 356: 5	374:8, 386:3,	362:22, 364:9,
365: 2, 366: ,	counsel	402: 8, 454: 0,	364: 2, 369: 5,
366:3, 372:4,	309:7, 3 0:20,	455:2	376:8, 378:2,
372: 7, 372: 9,	3 4:8, 3 7:22,	cross-examination	379:6, 379: 7,
376: 6, 377: ,	334: 8, 367:20,	4 5: 4, 4 5:20,	383: 5, 384:7,
377:3, 400: ,	368:6, 369:2,	4 6: 3	385: 7, 385:22,
409: 2, 4 9: 3,	369: , 377:8,	25.000	386:20, 387:3,
420: 3, 425:2,	4 0: 4, 4 5: ,	D	390:5, 39 :2,
425:3, 427:	4 6:9, 4 8:2 ,	data	39:5, 392:9,
432: 7, 438: 4,	4 9:8, 424:6,	383:9	393: 3, 397: 6,
442: 7, 443:9,	442: 5, 449:2 ,	date	
444:8, 444:9,	452:5, 456:22,	3 0: 3, 40 :2,	405: , 405:2 ,
444:20, 444:2 ,	457: , 46: 8,	438:7, 438:9,	406:3, 406:5,
446:2 , 453: ,	462: 2, 467: 4	466: 2	406: 3, 407: 7,
455: 4, 455: 7,	counsel's	dated	4 4:2, 420:2 ,
455:2 , 46 :6,		420:22	432: 9, 433: ,
	453:8	dates	433: 7, 435:8,
46: 6, 46: 7,	couple	352: 2, 352: 4,	436:9, 440: ,
462: 4, 466:6		360:8, 360: 0,	44 : 2, 448: 2,
correction	course		448:22, 449:7,
352: 0, 360:5	403:3, 4 7:20,	433:9, 438: ,	453:7, 453:9,
corrections	420:6, 422:20,	438: 2, 458:20,	453: 3, 454: ,
360: 3, 466:8	424: 6, 425: ,	460:22	455:20, 456: ,
correctly	426:2	day	459: 6
3 7: , 324: 2	court	307:5, 3 0:5,	declarations
correctness	3 :7, 32 :5,	467:30	448:2, 448:5,
372: , 445:6,	32 : 0, 325:7,	days	448: 4
447: , 447: 5	325: 4, 33:20,	443:22, 444:2,	decrease
could	348: , 348:4,	444:6	336: 3, 336: 7,
32 :5, 325:7,	350:6, 350: ,	deactivate	336: 8
325: 2, 325: 9,	423: 7, 434: 3,	436: 4	deduce
330: 9, 33 : 9,	443:2, 462:3,	deactivating	433:2
332: , 332:6,	464: 4, 464: 9,	457: 8	deem
335:20, 337:3,	464:22, 465:3	deal	388:
337: 9, 338:2,	courtesy	445:	deflate
338:4, 346: 5,	442: 4	dealing	
330.4, 340. 3,	442: 4	4 9:20	322:2 , 323:2
		3 . 20	
		11 14	44
	-	127	

deflation	456: 5, 462:5	327: 5, 328: ,	disagree
128: 5, 428:22,	describes	328:20, 329: 6,	3 4: 2, 374: ,
129:2 , 457: 6	364:5	388: 6	4 5:22, 447:6,
degree	describing	differences	447:20, 454: 7
373: 4, 379: 2,	457:8, 458: 6	3 8: 6, 3 8:20,	disagreed
379: 4, 379: 9,	description	3 9: 3, 3 9: 5,	446:22
38 : 3, 394:6,	333: , 336: 9	3 9: 9, 320: 0,	disclosed
1 6:7, 434:7	design	320: 4, 320:2,	8 6, 8,
demonstrates	394: 5	323: 5, 323:20,	405: 7, 42:
14 : 0	designation	326:6, 326: 6,	disclosure
depends	442: 2	326:20, 327:6,	333:2, 333:2,
	desired	327:2 , 328:3,	0 , , ,
depict	323: 2, 387: 2,	329:2 , 38 : 7,	437:4, 437:5,
17:5	425:20	382:6, 385:4,	438:2, 438: 0
lepicted	detail	385: 2, 386: ,	disclosures
339:4, 339:6,	332: 7	386: 3, 386: 9,	436:4
339: 0, 340: 2,	detailed	388: 7, 389: 9,	discuss
34 : 5, 34 :22,	445:8	390:2, 390:7,	459:5
342:2, 344:22,	determine	39 :5, 39 : 3	discussed
345: , 346:6,	356: 6, 356: 9,	different	32 : 2, 32 : 6,
346: , 4 7: 4		3 6: 9, 3 8: ,	352:3, 360:3,
depiction	357:4, 357: 2,	3 9: 8, 320:2,	385: 4, 386:2,
338:22	359:4, 378:7, 378: 9, 380: 2,	32 : 5, 322:2,	386:5, 386:7,
lepo		339:22, 363:3,	390: 5, 402: 8,
376: 7	38 : 2, 38 : 7,	365: 7, 379:3,	434:4, 440: 3,
deponent	382:5, 405: 2,	379:22, 38 :5,	44 :6, 443: 2
	406: 8	38 : , 383: ,	discusses
166:	determined	385: , 385:5,	352:2 , 354: 0,
depos	397:7, 402:3,	385: 6, 386: 4,	379:6
3 0: 6, 3 :8	406:2, 407:3,	4 0:2, 422:2	
deposed	408:3, 42:9,	differently	discussing
3 : 5	422: 3, 422: 8,	372:2	3 3:4, 3 4: 9,
deposition	426:5	difficult	430: 0, 457:3
306: 7, 307:4,	determines	373:8	discussion
3 0:6, 3 0: 7,	349:2	diffing	3 3:5, 3 4:20,
3 :20, 3 :22,	determining	365:5, 38:3,	326: , 353: 4,
8 8:8, 342: 6,	348: 4, 348:22,	000 0 000	354:9, 354: 5,
342:2 , 376:7,	349: 4, 375: 8,	383:8, 383: , 383:20, 384: 6,	4 9:2, 440: 2,
1 3: 4, 42 : 4,	4 0:4	399: 7, 399: 9,	459: 0, 463: 0,
123: , 427:6,	developed	399:20, 400:6,	464:4, 464: 3
142: 0, 462:7,	458: 8	400: 7, 40 :6,	discussions
164: , 465:5,	development	402:3, 409:20	449: 4, 450:3
167:6, 467:8,	396:3	direct	disrupting
167: 4, 467: 6	diagram		3 8:8, 388: 4
describe	332:9, 332: ,	3 3: 3, 346:8,	disruptive
340:7, 456: 4	332: 2, 332: 3,	347: 2, 40:3,	387:22
described	333:9	458:2 , 459:2	district
379: 7, 384:7,	difference	directly	4 3:7
389: , 4 6:20,	322: 8, 326: ,	336:2 , 390:3	document
	a back water and the first of the same of		32 :22, 325: 5,

	Conducted on	December 6, 2019		51
333:22, 334: ,	446:3, 446: 4	35 :20, 356:8,	else	
334:22, 338: 3,	draw	366: 5, 367: 9,	323:7, 324:3,	
350: 2, 372: 8,	345: 4, 36 :5	369: , 376: 6,	328:8, 328: 9,	
394:22, 4 7:4,	drawback	376: 7, 378: 9,	329:9, 329:20,	
423: 8, 433: 0,	398: 8	4 3:4, 4 3: 4,	340: 8, 34 : 5,	
433: 9, 439: 7,	drawbacks	4 4: 0, 4 5:7,	349: 7, 362: ,	
458: 6, 459: 5,	398: 2	4 5: , 4 6:2 ,	362:5, 362: 4,	
459:2 , 460:4	drawn	4 7:2, 4 9: 7,	4 9: 2, 428:2	
documentation	332: 9	420:2, 432:8,	embedded	
408:2, 448:4	due	435:8, 453:7,	347:2	
documentations	400: 5	462:7, 464:6,	embodiments	
448:7	duly	466:3, 467:5,	340:8, 340: 2	
documents	3 : 4, 352: 6,	467: 7	employed	
3 2:3, 362:2 ,		efficient	467:24	
370: , 4 3: 4,	360: , 467:7	4 2:2	end	
4 6:2, 433:22,	during	either		
448:8, 448: ,	372: , 374:8,	390:20, 428: 7,	6 , 6 8,	
449:4, 449:5	380: 8, 38 :3,	435: 8, 436:4,	357:20, 358: 2,	
doing	386:3, 402: 8,	444:4	358: 5, 362:7,	
	4 5: 3, 4 5:20,	electronic	442:9	
3 6:20, 3 6:2 ,	4 6: 3, 4 7: 2,	380:20	ends	
3 7:5, 343:2,	4 7:20, 4 8:2,	element	442: 2	
374: 0, 382: , 382: 6, 382: 9,	428:3, 428: ,	3 3:7, 3 9: 8,	engineer	
388:4	428: 5, 428:2 ,		332: 7, 395:2	
	428:22, 429:8,	3 9:20, 322:4,	engineering	
done	43:, 43:5,	327:4, 336:20,	347:2, 348:8,	
3 :20, 3 2: ,	435:6, 455:2,	338: 7, 340: 0, 34: 7, 348: 3,	395:22	
366:5, 380: 8,	457:2, 463:9		engineers	
434: 2, 442: 6,	E	348: 8, 349:3, 430: 3	397:	
452: 7, 464:3	each		english	
double	400: 4, 405:7,	elements	390: 8, 39:20,	
366:6	405: 5, 405: 9,	3 4: , 3 5: ,	392:8	
down	4 3: 9, 433:22	3 5: , 3 5:2 ,	enough	
380:5, 380: ,	earlier	3 7: 2, 3 7: 6,	337:	
428: 3	360:6, 394: 0,	3 7: 8, 3 8: ,	enter	
dr	399:20, 409:9,	8 , 6,	4 3:9	
3 0:6, 366: 5,	409: 9, 420: 0,	325:2 , 330:6,	entered	
367: 9, 369: ,	444: 7, 453:9	33 :5, 332: 5,	4 :	
378: 9, 4 4: 0,	early	339: 7, 346: 9,	enters	
4 5:7, 4 5: ,	394:8	347: , 347:4,	4 4:22	
4 6:2 , 4 7:2,	easier	348: 0, 348: 7,	entirely	
4 9: 7, 420:2,	335:9	348: 9, 349:5,	357:7	
432:8, 448: 5,	edwards	356: 6, 356:20,	entirety	
448: 6, 453:7,	306: 9, 307:4,	357:5, 357: 3,	4 7:2 , 4 8:5,	
464:6	3 0:6, 3 : 2,	357:22, 358: 7,	4 8: 4, 420:5,	
draft	32 :6, 32 :8,	359:4, 405: 7,	42 :8, 422: 2,	
444: 8, 445: 7,	325:8, 33 : 9,	406:6, 4 0:6,	426:4, 43 :6	
445:2 , 446:7	332:2, 350:7,	427: , 430:8,	entitled	
drafting	552.27 550.77	447: 4, 448: 8	342:20, 342:22,	
443:8, 444:22,			, , , , , , , , , , , , , , , , , , , ,	

367: 3	459:2	35 :20, 353: 6,	347: 5, 347: 7,
errata	examination	353: 9, 356:9,	348:9, 349: ,
466:9	309:2, 3 : 7,	370:3, 372: 0,	464:2
error	367: 7, 405:2,	376:7, 376: 4,	expertise
327:8, 327: 8,	454:22	376: 6, 376: 7,	345: 0, 347:6
328: 5, 328: 8,	examined	4 0: 4, 4 :2,	expires
329: 5, 330:7,	466:5	4 2:3, 4 2:5,	467:34
330: , 330: 9,	example	4 2:22, 4 3:4,	explain
33 :6, 40 :2 ,	3 4:22, 3 8:4,	4 3: , 4 3: 3,	432:22, 456:6
422: 5, 424: 4,	320:5, 320:9,	4 4:8, 4 5:20,	explained
450: 2, 45 :3,	322: , 322:22,	4 7:3, 4 7: 4,	424: 8
45 : 0, 45 : 5,	355:4, 356:20,	4 9:6, 420:3,	
45 : 0, 45 : 5, 45 :20		420: 8, 42: 4,	explanation
	357:22, 358: 7,	42 :22, 423: ,	388: 3, 437:3,
esq	36:2,362:4,	423: 6, 423:2 ,	445:8
308:7, 308: 3	379: , 38 : 4,	425: , 425:6,	explicit
essentially	384:6, 390: 4,	426:20, 427:5,	450: 3
384:2 , 396: 3	394:2, 408:8,	427:6, 427:3,	explicitly
et	422:3, 422:7,		322: 6, 322: 9,
3 0:9, 382: 9	424: 5, 425: 6,	428:2, 429: 7,	323: 9, 324: ,
evaluate	426: , 428:8,	429: 8, 430:20,	336:20
147: 0	429:9, 429:22,	434:22, 435:5,	expressed
even	430: 7, 436:8	435:7, 442: 5,	393: 6, 393: 9,
374:9, 386:2,	except	442: 6, 455:20,	394:22, 430:2,
388: , 397:8,	408:5	460: , 460:8,	430:22, 449:6
4 4:3	exception	460: 2, 460: 6,	extended
ever	394:7	46: 9, 46:2,	446: 7
353: 6, 385: ,	excerpt	462:6, 462:8,	extensive
4 6: 6, 445:20	425: 2, 427: 6	462: 3, 463:5	454: 2
every	excerpts	exhibits	extent
3 3:9, 3 9:3,	4 0: 5	309:4, 32:7,	3 2: 7, 3 3: ,
373:9, 387:20,	excessive	350:9, 352: 8,	3 3: 2, 3 5:5,
388:5	367:7	355: 2, 355: 6,	3 6: 3, 3 7:3,
evidence	exchange	356:2, 363:20,	3 7:20, 320: 7,
395:8, 395: 4,	398: 9	364: 2, 365: ,	322: 2, 326: 4,
397:4, 398: 6,	exclusively	4 0:20, 4 2:4,	327: , 330: 0,
40 :2, 432: 6,	354: 7	4 6: 0, 434: 2,	337: 2, 339:7,
432:20, 434:9,	excuse	434: 6, 434:20,	344: 5, 346:7,
140:5, 443:7,	334:	443:	347: 0, 347: 2,
158:2 , 459:3,	executed	existed	349:8, 354:20,
16 :9	392: 7	396: 3	358:5, 358:20,
evidences	exercise	exists	363: 5, 364:2,
454: 5	327:3	426: 6, 427:8	365: 3, 373: 8,
evolves	exhibit	expedite	373:20, 388: ,
		464: 6	
396:8	309:5, 309: 0,	experience	409: 4, 4 6:5, 448: 6, 455:4,
exact	32 :8, 325:9,	395:20, 396: 7,	
446: 8	33 :20, 332:2,	397:2	455:6, 456:2, 46:7
exactly	334:5, 334:2 ,	expert	
365: , 452: ,	335:4, 350:7,	346:22, 347:3,	extra
		310.22, 311.31	3 5: 7, 322:9
			1

332:9, 332:2 fane 08, far 320: 3, 322:2, 362:8, 367:7 fashion 388:3 faster 338:6, 457:5, 457:9, 457:20 favor	34: 7, 34:22, 342:2, 344:22, 345: , 345: 3, 346:6, 346: , 346: 4 figures 340: , 340: 3, 34: , 34: 5 file 355: 4, 4 7:7, 4 7:9, 4 7: , 425: 5, 430: 0,	345: 7, 360:7 firsthand 46: 4 five 444: , 444:5 fix 357: 7 flaws 396:7 flip 335:9, 335: 3
fane 08 , far 320: 3, 322:2, 362:8, 367:7 fashion 388:3 faster 338:6, 457:5, 457:9, 457:20 favor	345: , 345: 3, 346:6, 346: , 346: 4 figures 340: , 340: 3, 34: , 34: 5 file 355: 4, 4 7:7, 4 7:9, 4 7: , 425: 5, 430: 0,	five 444: , 444:5 fix 357: 7 flaws 396:7 flip
08 , far 320: 3, 322:2, 362:8, 367:7 fashion 388:3 faster 338:6, 457:5, 457:9, 457:20 favor	346:6, 346: , 346: 4 figures 340: , 340: 3, 34: , 34: 5 file 355: 4, 4 7:7, 4 7:9, 4 7: , 425: 5, 430: 0,	444: , 444:5 fix 357: 7 flaws 396:7 flip
far 320: 3, 322:2, 362:8, 367:7 fashion 388:3 faster 338:6, 457:5, 457:9, 457:20 favor	figures 340:, 340: 3, 34:, 34: 5 file 355: 4, 4 7:7, 4 7:9, 4 7: , 425: 5, 430: 0,	<pre>fix 357: 7 flaws 396:7 flip</pre>
362:8, 367:7 fashion 388:3 faster 338:6, 457:5, 457:9, 457:20 favor	340: , 340: 3, 34: , 34: 5 file 355: 4, 4 7:7, 4 7:9, 4 7: , 425: 5, 430: 0,	<pre>fix 357: 7 flaws 396:7 flip</pre>
362:8, 367:7 fashion 388:3 faster 338:6, 457:5, 457:9, 457:20 favor	34:,34:5 file 355:4,47:7, 47:9,47:, 425:5,430:0,	<pre>flaws 396:7 flip</pre>
fashion 388:3 faster 338:6, 457:5, 457:9, 457:20 favor	34:,34:5 file 355:4,47:7, 47:9,47:, 425:5,430:0,	<pre>flaws 396:7 flip</pre>
faster 338:6, 457:5, 457:9, 457:20 favor	file 355: 4, 4 7:7, 4 7:9, 4 7: 425: 5, 430: 0,	flip
faster 338:6, 457:5, 457:9, 457:20 favor	4 7:9, 4 7: , 425: 5, 430: 0,	flip
338:6, 457:5, 457:9, 457:20 favor	4 7:9, 4 7: , 425: 5, 430: 0,	
457:9, 457:20 favor	425: 5, 430: 0,	000.3/ 000. 0
favor		focused
	453: 8, 456: 3	356:
33 : 9, 445: 2	filed	focusing
fcs	4 0:2	36 :2
ATT THE TOTAL CONTRACT OF THE PARTY OF THE P		folder
		4 7: 0, 420: 9,
		420:22, 459:8 folders
		365: 7, 365: 9,
		38 :5, 38 :6,
25 C T C 15		38 :8, 407: 9,
		4 7:22
	7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -	follow
		343:8
7887		followed
		382:
		follows
		3 : 5
		forced
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		4 5: 4
		foregoing
		466:5
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	foreign
		390: 6, 39 : 8,
AL SCALO (STATE)		392: , 392:7
	364:5, 380: ,	forget
		446: 8
		form
		3 3: 0, 3 5:6,
		3 7:2, 3 7: 9,
335:2 , 336:20,		3 9: , 32 :20,
338: 8, 338:20,		326:8, 326:22,
339: , 339:6,	finish	329: , 330:9,
		33 :7, 332:20,
339: 3, 340: 0,		333:7, 336: 4,
34: , 34: 2,	first	340:2, 345:22,
34: 4, 34: 6,	3 : 4, 336:4,	349: 9, 352:20,
A. C. M. L. M. L. Market		2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -
	46:, 46:2 feature 397:20, 398:2, 409:6, 433: 2, 433: 4, 436: 6, 436:2, 437:2, 440: 9 features 396:6, 463: 2, 463: 8 feel 3 8:4, 350: 0, 374: , 433: 8, 44: 6, 44: 7 felt 408:20 few 428: 4 fewer 457: 6, 457: 7 fifth 378: figure 332:6, 332: 6, 332: 8, 333:5, 334:2, 335: 4, 335:2 , 336:20, 338: 8, 338:20, 339: , 339:6, 339:8, 339: 0, 339: 3, 340: 0, 34: , 34: 2,	## files ##

356:22, 36: 2, 385:8, 387: 8, 40: 4, 402:7, 403:9, 403:5, 366:20, 364:22, 400:4, 400:9, 403:9, 403:5, 306: 9, 307:4, 368: 0, 369:7, 439: ,439: ,42: 20, 422: 6, 30: 6, 3: 2, 369: 7, 370: 6, 444: ,446: ,423: 0, 424: 3, 458: 8, 442: 20, 427: 8, 377: 2, 50: 407: 9 426: 6, 427: 8, 377: 2, 377: 2, 50: 427: 8, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 2, 377: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 377: 3, 378: 3, 378: 3, 378: 3, 378: 3, 378: 3, 378: 3, 378: 3, 378: 3, 378: 3, 378: 3, 378: 3, 378: 3, 378: 3, 378: 3, 378: 3, 378:
364: 0, 364:22, 400:4, 400:9, 403:9, 403:5, 306:9, 307:4, 368:0, 369:7, 439: 0, 405:3, 42:20, 422: 6, 30:6, 3:2, 369:7, 370:6, 444: ,446: ,423: 0, 424:3, 465:8, 467:5, 371:7, 372: 2, 407: 9, 425:9, 426: 0, 427:8, 377:3, 378: ,378: ,377:20, 430:20, 430:2, 430:20, 430:2, 379: ,384: ,50x 400:3, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403:9, 403
366:2, 368:4, 402: 0, 405:3, 439:9, 42:20, 422: 6, 30:6, 3: 2, 369:7, 370:6, 444: , 446: , 423: 0, 424:3, 425:7, 466:3, 467:5, 37: 7, 370: 6, 370: 6, 37: 2, 407: 9 426: 6, 427: 8, 379: 378: , 377: 20 420: 0, 430: 2, 407: 9 426: 6, 427: 8, 393: 7, 307: 7, 308: 9, 430: 20, 430: 2, 370: 3, 378: , 377: 20 430: 20, 430: 2, 370: 3, 378: , 377: 20 430: 20, 430: 2, 370: 3, 378: , 377: 20 430: 20, 430: 2, 370: 7, 308: 9, 436: 2, 467: 8, 393: 7, 307: 7, 308: 9, 436: 2 376: , 380: 6, 370: 7, 408: 2, 467: 8 355: 2, 367: 22, 423: 9, 436: 8, 42: 0, 42: 9, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1, 42: 1,
368: 0, 369:7,
369: 7, 370:6,
370: 8, 370:22,
37: 7, 372: 2, four 425: 9, 426: 0, 467: 7 373: 20, 373: 22, 407: 9 426: 6, 427: 8, give 375: 5, 377: 2, 50urth 420: 4, 430: 5, 38: 3, 320: 5, 377: 3, 378: , 377: 20 430: 20, 430: 2, 350: 7, 358: 3, 379: , 384: , fox 43: 6, 435: 3, 372: 5, 372: 2, 387: 8, 393: 7, 307: 7, 308: 9, 436: 2 376: , 380: 6, 400: 3, 400: 0, 30: 8, 3: 4, functions 394: 20, 42: 9, 407: 7, 408: 2, 467: 8 355: 2, 367: 22, 423: 9, 436: 8, 47: 7, 420: 4, free 369: 3, 387: , 445: 3 42: 6, 423: 7, 38: 4, 350: 0, 389: 5, 389: 9, given 424: 5, 427: 0, 374: 2, 4: 3, 397: 8, 406: 5, 359; 372: 8, 43: 20, 433: 3, 44: 7, 455: 8 43: 9 466: 7, 467: 0 43: 20, 433: 3, 44: 7, 455: 8 43: 9 466: 7, 467: 0 437: 5, 439: 0, fundamental giving 440: 7, 443: 0, 42: 8, 324: 4, 36: 6, 37: 22, 448: 0, 450: 6, 370: 6, 37: 5, 429: 3, 454: 5, 39: 3, 38: 6,
373:20, 373:22, fourth 427: 4, 430:5, 3 8:3, 320:5, 377: 2, 377: 2, 377: 20 430:20, 430:2, 350:7, 358:3, 372: 5, 372: 2, 387: 8, 393: 7, 307: 7, 308: 9, 436: 2 376: , 380: 6, 400: 3, 400: 0, 467: 8 467: 8 467: 22, 445: 7, 445: 3, 445: 3, 445: 2, 445: 7, 448: 0, 450: 6, 450: 450: 450: 450: 450: 450: 450: 450:
375:5, 377:2, fourth 427: 4, 430:5, 38:3, 320:5, 377: 3, 378: , 377:20 430:20, 430:2, 350:7, 358:3, 387: 8, 393: 7, 307:7, 308:9, 436:2 376: , 380:6, 400:3, 400: 0, 3 0: 8, 3 :4, functions 394:20, 4 2:9, 407: 7, 408: 2, 467: 8 355:2, 367:22, 423: 9, 436:8, 4 7: 7, 420: 4, free 369:3, 387: , 445: 3 42: 6, 423: 7, 3 8: 4, 350: 0, 389:5, 389:9, given 424: 5, 427: 0, 374: 2, 4 : 3, 397: 8, 406: 5, 35:9, 372:8, 427: 8, 43: 4, 433: 8, 44: 6, 4 0:8, 42: 0, 4 4: 4, 423: 6, 43: 20, 433: 3, 44: 7, 455:8 43: 9 466: 7, 467: 0 giving 437: 5, 439: 0, friday fundamental giving 440: 7, 443: 0, 3 0: 3 373: 0 343: 2, 344:3, 445: 22, 447: 7, 320: 8, 324: 4, 366: 6, 37: 22, 39:3, 329: , 45: 22, 456: 7, 370: 6, 37: 5, 429: 3, 454: 5, 329: 3, 338: 6, 45: 22, 456: 7, 370: 6, 37: 5, 429: 3, 454: 5, 329: 3, 338: 6, 47: 2, 348: 6 376: 6, 4: 5, 467: 22 366: 8, 366: 8, 6ormal 372: 8, 373: 2, 467: 22 380: 9, 396: 3,
377: 3, 378: , 379: , 384: , 379: , 384: , 387: 8, 393: 7, 307: 7, 308: 9, 400: 3, 400: 0, 407: 7, 408: 2, 467: 8 47: 7, 420: 4, 42: 6, 423: 7, 422: 6, 423: 7, 433: 8, 44: 6, 435: 3, 44: 7, 455: 8 436: 2 436: 2 439: 20, 423: 9, 436: 8 439: 0, 440: 7, 443: 0, 440: 7, 443: 0, 440: 7, 443: 0, 445: 22, 447: 7, 448: 0, 445: 7, 457: 0, 463: 9 formal 379: , 384: 4 30: 20, 430: 2 370: 7, 358: 3, 372: 5, 372: 2 376: 7, 380: 6, 394: 20, 42: 9, 394: 20, 42: 9, 394: 20, 42: 9, 394: 20, 42: 9, 394: 20, 42: 9, 394: 20, 394: 20, 42: 9, 394: 20, 42: 9, 394: 20, 394: 20, 42: 9, 394: 20, 394: 2 394: 2 394: 2 394: 2 394: 2 394: 2 394: 2 394: 2 394: 3 397: 8, 406: 5, 394: 2 394: 3 397: 8, 406: 5, 394: 2 394: 3 397: 8, 406: 5, 394: 2 394: 3 397: 8, 406: 5, 394: 2 394: 3 397: 8, 406: 5, 394: 2 394: 3 397: 8, 406: 5, 394: 2 399: 397: 8, 372: 8, 373: 0 343: 2, 344: 3, 466: 7, 467: 0 373: 0 343: 2, 344: 3, 444: 0, 445: 7 320: 8, 324: 4, 366: 6, 37: 22, 390 343: 2, 344: 3, 444: 0, 445: 7 320: 8, 324: 4, 366: 6, 37: 22, 390 343: 2, 344: 3, 436: 8 394: 2 394: 2 394: 2 394: 3 394: 2 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 2 394: 3 394: 3 394: 3 394: 2 394: 3 394: 2 394: 3 394: 2 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 394: 3 397: 8, 406: 5 30: 9, 396: 8 30: 9, 396: 3 30: 3 373: 0 343: 2, 344: 3, 44: 1, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,
379: , 384: , 393: 7, 307:7, 308:9, 436:2 , 376: , 380:6, 394:20, 42:9, 436:2 , 376: , 380:6, 394:20, 42:9, 42:8, 42:2, 48:6, 435: 3, 376: , 380:6, 394:20, 42:9, 42:8, 42:2, 48:6, 435: 3, 376: , 380:6, 394:20, 42:9, 42:8, 42:6, 423:7, 38:4, 350: 0, 389:5, 389:9, 374: 2, 4 : 3, 397: 8, 406: 5, 35:9, 372:8, 427: 8, 43: 4, 433: 8, 44: 6, 43: 9, 466: 7, 467: 0 giving 440:7, 443: 0, 445: , front further 445: 22, 447:7, 320: 8, 324: 4, 326: 2, 433: 2, 344:3, 445: 2, 445: 2, 456: 7, 370: 6, 37: 5, 429: 3, 456: 5, 366: 8, 366: 8, 366: 8, 37: 2, 376: 3, 380: 6, 37: 2, 376: 2, 376: 8, 372: 2, 376: , 380: 6, 376: 2, 376: 3, 380: 8, 44: 9, 445: 3 given 355: 2, 369: 3, 389: 9, 372: 8, 372: 8, 372: 8, 372: 8, 372: 8, 372: 8, 372: 8, 372: 8, 372: 8, 372: 8, 372: 8, 372: 8, 372: 8, 372: 8, 372: 8, 372: 8, 372: 8, 372: 8, 372: 8, 372: 8, 372: 8, 372: 8, 372: 8, 372: 8, 372: 8, 372: 8, 372: 8, 372: 8, 372: 8, 372: 8, 372: 8, 372: 8, 372: 8, 372: 8, 372: 8, 372: 8, 372: 9, 448: 9, 466: 5, 42: 8, 42: 9, 42: 8, 42: 9, 42: 8, 42: 9, 42: 8, 42: 9, 42: 8, 42: 9, 44: 9, 372: 9, 44: 8, 39: 6, 372: 2, 372: 9, 372: 8, 372: 8, 372: 2, 372: 9, 372: 8, 372: 8, 372: 2, 372: 9, 372: 8, 372: 8, 372: 2, 372: 9, 372: 8, 372: 8, 372: 2, 372: 9, 372: 8, 372: 8, 373: 2, 373: 9, 372: 8, 373: 2, 372: 8, 373: 2, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 373: 9, 37
387: 8, 393: 7, 400: 0, 3 0: 8, 3 : 4, 467: 8 355: 2, 367: 22, 423: 9, 436: 8, 427: 8, 433: 4, 438: 8, 44 : 6, 433: 9, 438: 2, 447: 7, 443: 0, 445: 7, 448: 0, 450: 6, 326: 8, 37: 2, 370: 6, 37: 2, 370: 6, 37: 2, 370: 6, 37: 2, 370: 6, 37: 2, 370: 6, 37: 2, 370: 8, 370: 429: 3, 488: 6, 408: 8, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9, 408: 9,
400:3, 400: 0, 3 0: 8, 3 : 4, functions 394:20, 4 2: 9, 407:7, 408: 2, 467: 8 355: 2, 367: 22, 423: 9, 436: 8, 42: 6, 423: 7, 3 8: 4, 350: 0, 397: 8, 406: 5, 3 5: 9, 372: 8, 427: 8, 43: 4, 433: 8, 44: 6, 4 0: 8, 42: 0, 4 4: 4, 423: 6, 43: 20, 433: 3, 44: 7, 455: 8 43: 20, 433: 3, 44: 7, 455: 8 43: 20, 433: 3, 44: 7, 455: 8 43: 20, 433: 3, 44: 7, 455: 8 43: 9 466: 7, 467: 0 giving 440: 7, 443: 0, 3 0: 3 373: 0 343: 2, 344: 3, 444: 0, 445: , front 445: 22, 447: 7, 320: 8, 324: 4, 366: 6, 37: 22, 320: 8, 324: 4, 366: 6, 37: 22, 320: 8, 324: 4, 366: 6, 37: 22, 320: 8, 324: 4, 366: 6, 37: 22, 320: 8, 324: 4, 366: 6, 37: 22, 320: 8, 324: 4, 366: 6, 37: 22, 320: 8, 324: 4, 366: 6, 37: 22, 320: 8, 324: 4, 366: 6, 37: 22, 320: 8, 324: 4, 366: 6, 37: 22, 320: 8, 324: 4, 366: 6, 37: 22, 320: 8, 370: 3, 382: 2, 43: 2, 39: 3, 332: 9, 338: 6, 370: 3, 454: 22, 456: 7, 370: 6, 37: 5, 429: 3, 454: 5, 329: 3, 338: 6, 370: 3, 37: 2, 372: 0, 454: 22, 464: 6, 350: 4, 360: 6, 60: 6, 60: 60: 60: 60: 60: 60: 60: 60: 60: 60:
407:7, 408: 2, 467: 8 355: 2, 367: 22, 423: 9, 436: 8, 4 7: 7, 420: 4, free 369: 3, 387: , 445: 3 42: 6, 423: 7, 3 8: 4, 350: 0, 389: 5, 389: 9, given 424: 5, 427: 0, 374: 2, 4: 3, 397: 8, 406: 5, 3 5: 9, 372: 8, 427: 8, 43: 4, 433: 8, 44: 6, 4 0: 8, 42: 0, 4 4: 4, 423: 6, 43: 20, 433: 3, 44: 7, 455: 8 43: 9 466: 7, 467: 0 437: 5, 439: 0, friday fundamental giving 440: 7, 443: 0, 3 0: 3 373: 0 343: 2, 344: 3, 444: 0, 445: , front further 434: 2 445: 22, 447: 7, 320: 8, 324: 4, 366: 6, 37: 22, 39 488: 0, 450: 6, 326: , 370: 3, 382: 2, 43: 2, 39: 3, 329: , 457: 0, 463: 9 37: 2, 372: 0, 454: 22, 464: 6, 350: 4, 360: 6, 50rmal 372: 8, 373: 2, 454: 22, 464: 6, 350: 4, 360: 6, 347: 2, 348: 6 376: 6, 4: 5, 467: 22 367: 7, 374: 8, 50rms 4: 7, 4: 8, 374: 5, 374: 3 408: 5, 42: 5, 40: 8, 42: 2, 43: 2, 430: 7,
4 7: 7, 420: 4, free 369:3, 387:, 445: 3 42: 6, 423:7, 3 8:4, 350: 0, 389:5, 389:9, given 424: 5, 427: 0, 374: 2, 4 : 3, 397: 8, 406: 5, 3 5:9, 372: 8, 427: 8, 43: 4, 433: 8, 44: 6, 4 0:8, 42: 0, 4 4: 4, 423: 6, 43: 20, 433: 3, 44: 7, 455: 8 friday 466: 7, 467: 0 437: 5, 439: 0, friday 30: 3 373: 0 343: 2, 344: 3, 440: 7, 443: 0, 3 0: 3 373: 0 343: 2, 344: 3, 445: 22, 447: 7, 320: 8, 324: 4, 366: 6, 37: 22, 30 488: 0, 450: 6, 326: , 370: 3, 382: 2, 4 3: 2, 3 9: 3, 329: , 457: 0, 463: 9 37: 2, 372: 0, 454: 22, 464: 6, 350: 4, 360: 6, 457: 0, 463: 9 37: 2, 372: 0, 454: 22, 464: 6, 350: 4, 360: 6, 56rmal 372: 8, 373: 2, 467: 22 36: 8, 366: 8, 347: 2, 348: 6 376: 6, 4: 5, 467: 22 36: 8, 366: 8, 56rth 4: 7, 4: 8, 374: 5, 374: 3 408: 5, 42: 5, 56rth 4: 6, 434: 6, 372: 7, 392: 9, 452: 9, 462: 22 56und
42:6, 423:7, 3 8:4, 350: 0, 389:5, 389:9, given 424:5, 427: 0, 374: 2, 4 : 3, 397: 8, 406: 5, 3 5:9, 372:8, 427: 8, 43: 4, 433: 8, 44: 6, 4 0:8, 42: 0, 4 4: 4, 423: 6, 437: 5, 439: 0, 44: 7, 455:8 466:7, 467: 0 giving 440:7, 443: 0, 3 0: 3 373: 0 343: 2, 344: 3, 444: 0, 445: , front further 434: 2 445:22, 447:7, 320: 8, 324: 4, 366: 6, 37: 22, 30 488: 0, 450: 6, 326: , 370: 3, 382: 2, 4 3: 2, 39: 3, 329: , 457: 0, 463: 9 37: 2, 372: 0, 454: 22, 464: 6, 350: 4, 360: 6, 457: 0, 463: 9 37: 2, 372: 0, 454: 22, 464: 6, 350: 4, 360: 6, 50rmal 372: 8, 373: 2, 467: 22 367: 7, 374: 8, 340: 8, 340: 4: 7, 4: 8, 376: 6, 4: 5, 4: 7, 4: 8, 380: 9, 396: 3, 340: 8, 340: 4: 6, 4: 6, 434: 6, 374: 5, 374: 3 408: 5, 42: 5, 4 9: 2 4: 6, 434: 6, 372: 7, 392: 9, 452: 9, 462: 22 5corward 49: 2 422: 9, 422: 3, 422: 9, 422: 3, 422: 8, 422: 2, 34: 8
424:5, 427: 0,
427: 8, 43 :4, 433: 8, 44 : 6, 4 0:8, 42 : 0, 4 4: 4, 423: 6, 43 : 20, 433: 3, 44 : 7, 455: 8 friday 437: 5, 439: 0, 5 friday 440: 7, 443: 0, 3 0: 3 front 445: 22, 447: 7, 320: 8, 324: 4, 366: 6, 37 : 22, 326: 7, 370: 6, 37 : 5, 429: 3, 454: 5, 329: 3, 338: 6, 457: 0, 463: 9 37: 2, 372: 0, 457: 2, 464: 6, 372: 2, 372: 0, 457: 2, 464: 6, 372: 2, 372: 0, 457: 2, 348: 6 376: 6, 4 : 5, 457: 2, 348: 6 376: 6, 4 : 5, 457: 2, 348: 6 376: 6, 4 : 5, 457: 2, 348: 6 376: 6, 4 : 5, 457: 2, 348: 6 376: 6, 4 : 5, 457: 2, 348: 6 376: 6, 4 : 5, 457: 2, 348: 6 376: 6, 4 : 5, 457: 2, 348: 6 376: 6, 4 : 5, 467: 22 367: 7, 374: 8, 340: 8, 340: 8, 340: 8, 340: 4 : 7, 4 : 8, 340: 8, 340: 4 : 7, 4 : 8, 350: 4, 360: 6, 374: 5, 374: 3 408: 5, 42: 5, 5, 365: 22, 449: 7 408: 5, 42: 5, 5, 365: 22, 449: 7 408: 5, 42: 2, 469: 7, 372: 7, 392: 9, 452: 29, 462: 22 469: 7, 372: 7, 392: 9, 452: 29, 462: 22 469: 7, 372: 7, 392: 9, 452: 22 469: 7, 372: 7, 392: 9, 452: 22 469: 7, 372: 7, 392: 9, 452: 22 469: 7, 372: 7, 392: 9, 452: 22 469: 7, 372: 7, 392: 9, 452: 22 469: 7, 372: 7, 392: 9, 452: 22 469: 7, 372: 7, 392: 9, 462: 22 469: 7, 372: 7, 392: 9, 462: 22 469: 7, 372: 7, 392: 9, 462: 22 469: 7, 372: 7, 392: 9, 462: 22 469: 7, 372: 7, 392: 9, 462: 22 469: 7, 372: 7, 392: 9, 462: 22 469: 7, 372: 7, 392: 9, 462: 22 469: 7, 372: 7, 392: 9, 462: 22 469: 7, 372: 7, 392: 9, 462: 22 469: 7, 372: 7, 392: 9, 462: 22 469: 7, 372: 7, 392: 9, 462: 22 469: 7, 372: 7, 392: 9, 462: 22 469: 7, 372: 7, 392: 9, 462: 22 469: 7, 372: 7, 392: 9, 462: 22 469: 7, 372: 7, 392: 9, 462: 22 469: 7, 372: 7, 392: 9, 462: 22 469: 7, 472: 7, 372: 7, 392: 9, 472: 7, 392: 9, 472: 7, 392: 9, 472: 7, 392: 9, 472: 7, 392: 9, 472: 7, 392: 9, 472: 7, 392: 9, 472: 7, 392: 9, 472: 7, 392: 9, 472: 7, 392: 9, 472: 7, 392: 9, 472: 7, 392: 9, 472: 7, 392: 9, 472: 7, 392: 9, 472: 7, 392: 9, 472: 7, 392: 9, 472: 7, 392: 9, 472: 7, 392: 9, 472: 7, 392: 9, 472: 7, 392: 9, 472: 7, 392: 9, 472: 7, 392: 9, 472: 7, 392: 9, 472: 7, 392: 9, 472: 7, 392: 9, 472: 7, 392: 9, 472: 7, 392: 9, 472: 7, 3
43 : 20, 433: 3, 44 : 7, 455: 8 finday 437: 5, 439: 0, friday 440: 7, 443: 0, 3 0: 3 444: 0, 445: , front 445: 22, 447: 7, 320: 8, 324: 4, 366: 6, 37 : 22, 382: 2, 4 3: 2, 344: 3, 434: 2 448: 0, 450: 6, 326: , 370: 3, 382: 2, 4 3: 2, 39: 3, 329: , 457: 0, 463: 9 5 formal 372: 8, 373: 0 5 forms 373: 0 7 forms 373: 0 7 forms 370: 6, 37: 5, 429: 3, 454: 5, 329: 3, 338: 6, 370: 6, 37: 5, 429: 3, 454: 5, 329: 3, 338: 6, 370: 6, 37: 2, 372: 0, 454: 22, 464: 6, 350: 4, 360: 6, 366: 8, 366: 8, 366: 8, 366: 8, 366: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 360: 8, 36
437: 5, 439: 0, friday 30: 3 373: 0 343: 2, 344:3, 440: 7, 443: 0, 30: 3 373: 0 343: 2, 344:3, 444: 0, 445: , front further 434: 2 445: 22, 447: 7, 320: 8, 324: 4, 366: 6, 37: 22, 30 448: 0, 450: 6, 326: , 370: 3, 382: 2, 43: 2, 39: 3, 329: , 45: 2, 456: 7, 370: 6, 37: 5, 429: 3, 454: 5, 329: 3, 338: 6, 457: 0, 463: 9 37: 2, 372: 0, 454: 22, 464: 6, 350: 4, 360: 6, formal 372: 8, 373: 2, 6, 6 6, 6 366: 8, 366: 8, 347: 2, 348: 6 376: 6, 4: 5, 467: 22 367: 7, 374: 8, 360: 9, 396: 3, 340: 8, 340: 4: 7, 4: 8, 374: 5, 374: 3 408: 5, 42: 5, forth 4: 6, 434: 6, 374: 5, 374: 3 408: 5, 42: 5, forward 4: 7, 4: 8, 372: 7, 392: 9, 452: 9, 462: 22 found 322: 2, 386: 2, 422: 8, 422: 2, 44: 9 34: 8, 39: 6,
440:7, 443: 0, 3 0: 3 373: 0 343: 2, 344:3, 444: 0, 445: , front further 434: 2 445:22, 447:7, 320: 8, 324: 4, 366: 6, 37:22, 390 448: 0, 450: 6, 326: , 370:3, 382:2 , 4 3:2 , 39:3, 329: , 45: 2, 456:7, 370: 6, 37: 5, 429:3, 454:5, 329:3, 338:6, 457: 0, 463: 9 37: 2, 372: 0, 454:22, 464:6, 350: 4, 360: 6, 5formal 372: 8, 373: 2, 6 , 6 6, 366:8, 366: 8, 347: 2 , 348:6 376: 6, 4: 5, 467: 22 367: 7, 374: 8, forms 4: 7, 4: 8, 380: 9, 396: 3, 340: 8, 340: 4: 4: 4, 374: 5, 374: 3 408: 5, 42: 5, forth 4: 6, 434: 6, 374: 5, 374: 3 408: 5, 42: 5, forward 4: 6, 434: 6, 372: 7, 392: 9, 452: 9, 462: 22 found 422: 9, 422: 3, 422: 8, 422: 2, 44: 9 34: 8, 3 9: 6,
444: 0, 445: , front further 434: 2 445:22, 447:7, 320: 8, 324: 4, 366: 6, 37:22, 390 448: 0, 450: 6, 326: , 370:3, 382:2 , 4 3:2 , 39:3, 329: , 45: 2, 456:7, 370: 6, 37: 5, 429:3, 454:5, 329:3, 338:6, 457: 0, 463: 9 37: 2, 372: 0, 454:22, 464:6, 350: 4, 360: 6, formal 372: 8, 373:2, 6 , 6 6, 366: 8, 366: 8, 347:2 , 348:6 376:6, 4:5, 467:22 367:7, 374: 8, forms 4: 7, 4: 8, 374:5, 374: 3 408: 5, 42: 5, forth 4: 6, 434: 6, 374:5, 374: 3 408: 5, 42: 5, forward 4: 6, 434: 6, 372: 7, 392: 9, 452: 9, 462:22 found 322: 2, 386: 2, 422: 9, 422: 3, 44: 9 34: 8, 39: 6,
445:22, 447:7, 320: 8, 324: 4, 366: 6, 37:22, go 448: 0, 450: 6, 326: , 370:3, 382:2 , 4 3:2 , 3 9:3, 329: , 45: 2, 456:7, 370: 6, 37: 5, 429:3, 454:5, 329:3, 338:6, 457: 0, 463: 9 37: 2, 372: 0, 454:22, 464:6, 350: 4, 360: 6, formal 372: 8, 373:2, 6, 6, 6, 6, 366: 8, 366: 8, 347: 2, 348: 6 376: 6, 4: 5, 467: 22 367: 7, 374: 8, forms 4: 7, 4: 8, 374: 5, 374: 3 380: 9, 396: 3, 340: 8, 340: 4: 4: 4, 374: 5, 374: 3 408: 5, 42: 5, forth 4: 6, 434: 6, 374: 5, 374: 3 408: 5, 42: 5, gave 372: 7, 392: 9, 452: 9, 462: 22 found 322: 2, 386: 2, 422: 8, 422: 2, 44: 9 34: 8, 39: 6,
448: 0, 450: 6, 326: , 370: 3, 382: 2 , 4 3: 2 , 3 9: 3, 329: , 45: 2, 456: 7, 370: 6, 37: 5, 429: 3, 454: 5, 329: 3, 338: 6, 457: 0, 463: 9 37: 2, 372: 0, 454: 22, 464: 6, 350: 4, 360: 6, formal 372: 8, 373: 2, 6, 6 6, 6 366: 8, 366: 8, 347: 2, 348: 6 376: 6, 4: 5, 467: 22 367: 7, 374: 8, forms 4: 7, 4: 8, 374: 5, 374: 3 380: 9, 396: 3, 340: 8, 340: 4: 4: 4, 374: 5, 374: 3 408: 5, 42: 5, forth 4: 6, 434: 6, 374: 5, 374: 3 408: 5, 42: 5, gave 372: 7, 392: 9, 452: 9, 462: 22 found 322: 2, 386: 2, 422: 9, 422: 3, 44: 9 329: 3, 329: , 329: 3, 338: 6, 329: 3, 338: 6, 350: 4, 360: 6, 366: 8, 366: 8, 367: 7, 374: 8, 380: 9, 396: 3, 367: 7, 374: 8, 380: 9, 396: 3, 374: 5, 374: 3 408: 5, 42: 5, 408: 5, 42: 5, 43: 2, 430: 7, 452: 9, 462: 22 goes 45: 45: 409: 2 422: 9, 422: 3, 44: 9
448: 0, 450: 6, 326: , 370: 3, 382: 2 , 4 3: 2 , 3 9: 3, 329: , 45: 2, 456: 7, 370: 6, 37: 5, 429: 3, 454: 5, 329: 3, 338: 6, 457: 0, 463: 9 37: 2 , 372: 0, 454: 22, 464: 6, 350: 4, 360: 6, 5ormal 372: 8, 373: 2, 6 , 6 6, 366: 8, 366: 8, 347: 2 , 348: 6 376: 6, 4 : 5, 467: 22 367: 7, 374: 8, forms 4 : 7, 4 : 8, 5tuture 380: 9, 396: 3, 340: 8, 340: 4 : , 4 : 4, 374: 5, 374: 3 408: 5, 42: 5, forth 4 : 6, 434: 6, 372: 7, 392: 9, 452: 9, 462: 22 forward 49: 2 355: 5, 365: 22, 449: 7 452: 9, 462: 22 found 322: 2, 386: 2 , 422: 8, 422: 2 , 44: 9 34: 8, 3 9: 6,
45: 2, 456:7, 370: 6, 37: 5, 429:3, 454:5, 329:3, 338:6, 457: 0, 463: 9 37: 2, 372: 0, 454: 22, 464: 6, 350: 4, 360: 6, 6 , 6 , 6 , 6 , 6 , 366: 8, 366: 8, 366: 8, 366: 8, 366: 8, 366: 8, 347: 2, 348: 6 376: 6, 4 : 5, 467: 22 367: 7, 374: 8, forms 4 : 7, 4 : 8, 374: 5, 374: 3 408: 5, 4 2: 5, forth 4 : 6, 434: 6, 374: 5, 374: 3 408: 5, 4 2: 5, forward 43: 7 374: 5, 374: 3 452: 9, 462: 22 found 372: 7, 392: 9, 452: 9, 462: 22 329: 3, 338: 6, 350: 4, 360: 6, 366: 8, 366: 8, 367: 7, 374: 8, 380: 9, 396: 3, 374: 5, 374: 3 408: 5, 4 2: 5, 4 : 6, 434: 6, 372: 7, 392: 9, 4 52: 9, 462: 22 449: 7 goes 4 5: 45: 4 5: 45: 4 5: 45: 4 5: 45: 4 5: 44: 9
457: 0, 463: 9 37 : 2 , 372: 0, 454: 22, 464: 6, 350: 4, 360: 6, formal 372: 8, 373: 2, 467: 22 366: 8, 366: 8, 347: 2 , 348: 6 376: 6, 4 : 5, 467: 22 367: 7, 374: 8, forms 4 : 7, 4 : 8, 340: 9, 396: 3, 374: 5, 374: 3 408: 5, 4 2: 5, forth 4 : 6, 434: 6, 374: 5, 374: 3 408: 5, 4 2: 5, 43: 2, 430: 7, forward 49: 2 355: 5, 365: 22, 449: 7 452: 9, 462: 22 45: found 322: 2, 386: 2 , 422: 8, 422: 2 , 44: 9 34: 8, 3 9: 6,
formal 372: 8, 373:2, 6 , 6 6, 366:8, 366: 8, 347:2 , 348:6 376:6, 4 :5, 467:22 367:7, 374: 8, forms 4 : 7, 4 : 8, 5tuture 380:9, 396: 3, 340:8, 340: 4 : , 4 : 4, 374:5, 374: 3 408: 5, 4 2: 5, forth 4 : 6, 434: 6, 374:5, 374: 3 408: 5, 4 2: 5, gave 43: 2, 430: 7, 452: 9, 462: 22 found 372: 7, 392: 9, 45: 322: 2, 386: 2 , 422: 8, 422: 2 , 44: 9 34: 8, 3 9: 6,
347:2 , 348:6 376:6, 4 :5, 467:22 367:7, 374: 8, forms 4 :7, 4 :8, 380:9, 396: 3, 340:8, 340: 4 : , 4 : 4, 374:5, 374: 3 408: 5, 4 2: 5, forth 4 : 6, 434: 6, G 43: 2, 430: 7, 335: 3, 467:6 443:7 gave 452: 9, 462:22 forward 372: 7, 392: 9, 45: going 4 9: 2 355: 5, 365:22, 449: 7 45: going 322: 2, 386: 2 , 422: 8, 422: 2 , 44: 9 34: 8, 3 9: 6,
forms 4 :7, 4 :8, future 380:9, 396: 3, 340:8, 340: 4 : , 4 : 4, 374:5, 374: 3 408: 5, 4 2: 5, forth 4 : 6, 434: 6, gave 43: 2, 430: 7, forward function 372: 7, 392: 9, 452: 9, 462:22 found 422: 9, 422: 3, 422: 8, 422: 2, 44: 9 34:8, 3 9:6,
340:8, 340: 4 : , 4 : 4, forth 4 : 6, 434: 6, 335: 3, 467:6 443:7 forward function 4 9: 2 355: 5, 365:22, found 422: 9, 422: 3, 322:2, 386:2 , 422: 8, 422: 2 , 4 : , 4 : 4, 374:5, 374: 3 G 4 3: 2, 430: 7, 452: 9, 462:22 45: goes 4 5: 42: 9, 422: 3, 44: 9 374: 5, 374: 3 408: 5, 4 2: 5, 4 3: 2, 430: 7, 452: 9, 462: 22 goes 4 5: 4 5: going 3 4: 8, 3 9: 6,
forth 4 : 6, 434: 6, G 4 3: 2, 430: 7, 335: 3, 467:6 443:7 gave 452: 9, 462:22 forward function 372: 7, 392: 9, 4 5: 4 9: 2 355: 5, 365:22, 449: 7 goes found 422: 9, 422: 3, gears going 322: 2, 386: 2 , 422: 8, 422: 2 , 44 : 9 3 4:8, 3 9:6,
335: 3, 467:6
forward function 372: 7, 392: 9, 449: 7 4 9: 2 355: 5, 365:22, 449: 7 45: 45: 42: 9 found 422: 9, 422: 3, 422: 2, 442: 9 34:8, 3 9:6, 42: 8, 42: 2
4 9: 2 found 322:2, 386:2, 422: 8, 422:2, 449: 7 gears 44 5: going 3 4:8, 3 9:6,
found 322:2, 386:2, 422:9, 422:3, 422:8, 422:2, 449:7 gears 449:7 going 3 4:8, 3 9:6,
322:2, 386:2, 422:8, 422:2, 44:9 3 4:8, 3 9:6,
4 7:9, 422: 6, 423: , 424: 8. 320: 6, 326:5.
422. 0 424.2 general
127.0 120.22
100. 3/ 100. 0
Idenerally
$\begin{bmatrix} 368: 8, 369:8, \\ 4 0:4 \end{bmatrix}$
369: 8, 370:6, functionalities 332.22 333.9 343:5, 343: ,
370:8, 370: 9, 438:2, 439:7 365: 6, 368: 7. 345: 3, 350:20,
37: 8, 372: 3, functionality 395:2, 396:6, 357: 6, 357: 8,
3/5:1, 3/8: 2, 365:4, 375:2, 40 : 5. 4 4:20. 358:9, 359: 3,
3/8: 4, 3/8: 5, 395:8, 395:9, 4 8: 5, 429: 6. 36: 3, 362: 0,
384: , 384: 9, 396:4, 40: 3, 372:2, 373: 7,

	Conducted on i	December 0, 2019		33
374: 3, 380:8,	handheld	433: 7, 440:22,	39 : , 427:2	
384: 0, 385:22,	337:4, 337:8,	447:6, 447: 8,	identification	
387: 9, 40:8,	337: 9	460: , 462: 5	309:4	
4 0: 8, 4 : ,	hands	hereby	identified	
4:6,42:2,	325: 4, 334: ,	466:4, 467:4	3 8: 3, 3 9: 7,	
4 3:3, 4 3: 7,	334:22, 335:22,	hereinbefore	334:2, 335: 5,	
4 9: 2, 433: 6,	350: , 423: 7,	467:6	336:4, 336:5,	
437: 0, 437: 4,	459:20, 460:4	hereunto	34 : 8, 388: 6,	
440:2, 445: 0,	handwriting	467:29	407: 3, 420:20,	
454:6, 464:2	335:5, 335: 6	high	424: 8, 426:22,	
gone	hang	379: 2, 379: 4,	430: 3, 433:5,	
35 :4, 35 :8	350:4	379: 2, 379: 4, 38 : 3, 394:5	433: , 435: 3,	
good			436:2, 44 : 2,	
3 0:4, 3 : 9,	happens	higher-ups		
	396: 6	4 :2	448: 2, 448: 4,	
367: 9, 4 9:6,	happy	highlight	448:22	
464:9	334:9	334: 5	identifies	
grab	harassment	highlighter	338:20, 362:2	
423:20, 462: 9,	3 7:3, 347: 3	334: 6, 335:2	identify	
463:	hardware	highly	3 0:20, 324:6,	
granite	349:4	389: 4, 4 9:7	333:9, 333: 2,	
308:4	harmful	hold	333: 5, 333: 7,	
great	397:8	377:5, 435:	335: , 355: ,	
445: , 465:3	head	hour	355: 4, 355: 5,	
greater	320:20, 435:22,	350:2 , 350:22,	355:20, 356: ,	
398: , 406:9	444: 4	35 :2, 35 :8,	362:22, 377:9,	
greatest	header	367:6	388: 7, 398: ,	
373: 4	425:	hour-and-a-half	398: 3, 42: 9,	
grounds	heavily	454: 0	424: , 425:8,	
4 3:20		(2.7.51)	426: 5, 426: 7,	
quess	356: , 454:9,	hours	429: , 434:2 ,	
384:5, 395: ,	454: 5	35 : 0, 370:4,	456: 2, 458: 3	
	help	370: 0	identifying	
407: 4, 429: 8,	3 9:6	housekeeping	427:5, 430:3	
435: 6, 455: 0	helped	434:		
guys	444: 7	housing	ignored	
350: 3	helpful	348: 5, 349: ,	392: 6	
H	372: 8, 373: 3,	349:7, 349: ,	ii	
half	379:4, 380:2,	349: 6, 425: 8,	306:20, 467: 7	
367:6	409:22, 4 0:4	425: 9	impact	
hand	helping	however	39:, 39:6,	
32 :6, 325:8,	445:20	390: 9	392:	
33 : 9, 333: 2,	here	hundred	implement	
334:9, 334:2,	3 0:5, 334:8,	444:2, 444: 5	387:2, 406:7,	
	344:4, 345:20,	hypothetical	406: 8, 437:2,	
335:2 , 350:6,	347:9, 352:9,	3 7:2 , 344: 6,	463: 2	
443:2, 459: 8,		357: , 358:6,	implemented	
460:2, 46:8,	357:3, 357: 0,	358:22	389: 2, 407:3,	
462:2, 467:30	372:3, 372:20,	5.515 11 11 11 11	- 408:4	
handed	373:8, 395: 5,	I	- implementing	
32 : 4, 442: 4	427:6, 429:20,	identical	426:7	
		8 , 8 8,	720.1	
		0 , 0 0,		

	Conducted on i	December 6, 2019		36
implements	422:8	449: 2, 450:2	38 :3, 382: 4,	
424: 7, 43 :8	including	inflating	405:6, 408:3,	
important	434:3, 457: 3	450:4, 450:5,	4 7: 2, 4 7:20,	
0,	inclusion	45 : 9	4 8:2, 42 :5,	
improper	340:9	inflation	42 :7, 422: ,	
1 0:22	incomplete	428: , 428: 2,	426:4, 43 : ,	
improve	3 7:2 , 344: 6,	428:2 , 429:8,	43 :5, 458:2	
396:4	, 86,	457: 6	inspections	
improved	358:2	information	380: 8, 400: 4,	
387:4, 387:9,	incorporate	345:5, 359:3,	4 8:6, 443: 3,	
395:7, 397:20,	386:22, 436: 5	437:6	443: 4, 443:2	
397:22, 399: 0,	incorporated	infringement	instance	
10 : 6, 406:7,	3 0:8, 339: 8,	3 3: 7, 3 3: 9,	382:8, 408:2,	
106: 9, 407:4,	363:3, 439: 9	3 4: , 3 7: 3,	42 : 3	
108:4, 408: 0,	incorporation	324:6, 324: ,	instances	
108: 6, 409: ,	433: 4	324: 3, 324: 7,	353: 8, 4 8: 9	
109:5, 420: 2,	incorrect	325:4, 325: 0,	instead	
12 :3, 425:9,	352:8	355: 9, 356: 0,	4 5: 4	
125: 3, 426:7,	increase	369: 3, 372:9,	instruction	
427: 4, 433: 3,	336: 2, 336: 7,	4 4:2, 4 6:8,	342: 7, 343: 9,	
436:2, 436: 0,	336: 8	4 6: , 423: 2,	343:2 , 344:8,	
437:8, 438:2,	indeed	426: 8, 429: 4,	344: 4, 344: 8	
139:7, 457: 3	370:2	444: 9, 444:22,	instructions	
improves	independent	445:3, 445:5,	343: 5	
396:9		445:7, 445: 8,	intend	
inappropriate	320:3, 320: 3,	445:2 , 446:4,	4 : 0, 4 2: 2	
3 8:2, 374:9	320:2 , 32 : 3,	446:8, 446: 4,	intentionally	
inc	32 : 7, 322:3,	447:9, 447: 2,	3 6:20	
306:5	324:5, 324:9,	447: 8, 448: ,	interested	
include	324: 5, 326: 8,	452:6, 456: 6	2007 200 200 200	
339:9, 352: 7,	327:6, 330:3, 33:2, 408:7	infringing	40 :9, 40 : , 467:26	
		3 3:7	introduce	
352: 8, 353: , 375:2 , 406:5,	independently	initial	4 4:7	
4 8:8, 427: ,	446: 9	348: 4, 348:22,	introduced	
428: 9, 453: 4,	index	349: 4, 349:2	24 2 2 2 4 4 4 5 4 5 4 5 4 5 4 5 5 4 5 5 4 5 5 5 6 5 6	
	309:	initially	4 5: 9, 4 6:9	
453: 8, 454: included	indicate	367:	introducing	
324: 0, 324: 6,	4 9:6, 459:3,	innovation	4 4:2	
	46 :	46 :2	invention	
325:4, 326:4,	indicated	insert	340:9, 345:9,	
4 7:22, 426: 7,	460:22	463: 2	346: 9, 347:5,	
433: 2, 440:	indicating	insist	375: 8, 375:22,	
includes	334: 8		425: 3, 430:9	
323:8, 323: 0,	indirectly	4 6:6	investigated	
327: 6, 329:4,	458: 9	inspect	405: 6	
336: 6, 338: ,	industry	406:	investigating	
338:2 , 339:4,	384:4, 396:	inspected	40 : 0, 40 :	
339:6, 34 : 7,	inflate	394:7, 4 8:	ipr	
345: 6, 40 : 7,	322:20, 323: ,	inspection	306: 3, 306: 4,	
		354: , 364:5,		

306: 5, 3 0: , 3 0: 2 iq	396: 7, 434: 3, 440: 6, 444:4	4 9:2	402:7, 402:22,	
3 0: 2		X 12.2 1		
7	110. 0, 111.1	law	403:7, 403:8,	
the Control of the Co	know	307:7	403: 4, 403:2 ,	
407:22	32 : 7, 333:5,	laying	404: 4, 456: 5	
issuance	333:6, 357:3,	370:7	liked	
352: 3, 360:9	357:2 , 358: 6,	leading	46 :20	
issue	362: 0, 367: ,	370:5, 373:6,	limitation	
, 6 ,	372:20, 374:6,	, 8 0,	323: 0, 329:4,	
396: 8, 4 4: 3,	382: 3, 382: 8,	382:3, 383: 2,	329:7, 427:2	
4 4:22, 452: 3	382:2 , 384:2 ,	384: 8, 388: 9,	limitations	
it'll	396:2, 406:4,	392:4, 393:7,	324:22, 42 :20	
0	4 8: 3, 422:4,	395: 8, 397: 3,	limited	
	434: 3, 440:9,	398:8, 399:6,		
item	440: 4, 44:8,		326: 8, 425: ,	
334:2, 334: 5,	449: 8, 45:8,	399: 5, 400: 0,	427: 6, 43 : 2	
335: 4, 336:7	459:2	402: 4, 403:5,	line	
items	20 I M A TO 1 1 2 2 2 2	403:6, 404:5,	, , , ,	
34 :7	knowledge	409:2, 423: 4,	338: 0, 365:2 ,	
iterations	347: 6, 347:2 ,	426: 3, 43:2,	367:2 , 369:2,	
457: 7	348:7, 395:20,	43 : 9, 432: 8,	422:9, 426:2,	
itself	40 :2, 46 : 4	436:6, 447:2,	427:7, 428:8,	
364:4, 364:8,	known	449:9, 450: 7,	430: , 453: 0,	
368: , 369:6,	38 :3	45 :4, 45 : 2,	453: 4, 453: 8,	
390: 9, 399:	kyle	453: 6	454:7, 456: 3	
J	308: 6, 3 0: 6,	least	lines	
january	4 2: 0, 4 2: 8	324:5, 330:6,	345: 5, 40 :8,	
446: 2, 446: 7	L	332: 8, 398: 5,	428: 4	
jaspal	labeled	4 5: 8, 438: 7,	list	
308:7, 3 0:22,	425:	44 :	338:7	
3 8:4, 374:	lack	left	listed	
387: 9, 402: 5,	4 6: 4	35 :2, 35 :3,	362: 4, 405: ,	
44 : 5	laid	453:6	405:20, 406:4,	
job	368: 8	legal	406: 2	
	language	3 3: 4, 322: 3,	literal	
306:23	390: 7, 39 : 8,	326: 4, 327:	40 :5	
joshua	392: , 392:7,	legibly	little	
308: 5	404:3	335: 8	338:6, 392: 9,	
jumped	larger	legs	429:7	
403:8		44 :22	11p	
justify	4 4: 5, 4 4: 7 larson	less	307:7, 308:3,	
398: 2		387: 3	308:9, 3 0: 8	
K	306:24, 3 :8,	let's	located	
key	467:2, 467:33	42 : 3, 435: 6,	426: 9, 429: 2	
393: 8, 394: 2,	last	460: 8	location	
394:2	350:20, 352: ,	letting	349:22	
kind	359: 3, 455: 6,	434: 5	logic	
36 :8, 362:6,	458:8	level		
363:2 , 364: 7,	later	332: 7, 332: 9,	387:8, 387: 0,	
333.2 / 303. //	396: , 397:7,	40 :7, 40 : 2,	407:2 , 4 7: 0,	
		40 : 7, 40 : 2,	420: 9, 426:6,	
		of the second	4	

	Conducted on 1	December 6, 2019	58
430: 9, 434:4,	404:7, 4 2: ,	467:27	methodology
458:6, 458: 0,	4 3:9, 422:22,	maybe	38 : 6, 38 :22
458: 4, 458:22,	434: 8, 443:3,	339:2, 346:5,	mic
159: 4, 46 : 5	449:6, 460: 6,	4 2: , 440:9,	
Longer	462: 0	457:7	middle
367: 0, 367: 2,	makes	mean	439:20, 439:2
396: 4	374:7	330: 0, 340: ,	might
look	making	353: , 363:7,	340: 2, 4 2:8,
3 2:3, 3 9:5,	435:6, 435: 6	365:2, 438: 2,	446: 6, 446: 7
350:9, 369:2,	manifold	438: 7, 459:2	millions
373: 2, 380:7,	323: , 323: 6,	meaning	4 8: 6
383: , 389:8,	323:2 , 327:22,	379:8, 397:22,	mind
128:8, 428: 3	328:4, 345: 6	457: 7	4 2: 5, 4 8:2 ,
Looked	manner	meant	
3 6: 0, 378:9,	385: 3, 385: 9	330: 8, 435:3	430:3, 434: ,
162:	manufacturing	mechanical	44 : 9, 450: 5, 462:9
looking	306:5, 3 0:7,	332: 4, 339: 6,	462:9 mine
32 :3, 337:5,	3 :2	345:8, 346: 8,	
402: , 429: 3,	many	347: , 347:4,	3 6: 2, 335: 7
434:20, 439: 7	384:5, 390: 7,	348:7, 348:9,	minneapolis
looks	390: 9, 396: ,	349:5, 447: 4,	307:8, 308: 2,
362: , 389:		448: 7	3 0: 9, 467: 9
lost	406:6, 4 7:22,	meeting	minnesota
	443:22, 444: 3,		307:8, 3 0: 9,
376: 3	454:	3 4: , 3 5:2,	467:4, 467: 9,
lot	mark	3 5:2 , 3 8: 3,	467:36
3 2:	334:5	3 9: 8, 325:2	minute
luke	marked	meets	367:5, 428:5,
308: 3, 3 :3	309:4, 372: 0,	3 5: 0, 324: 9,	452: 7
lunch	4 0: 0, 4 2:22,	324:2	minutes
366:22	4 7:3, 4 9:7,	memory	35 : , 35 : 3,
M	4 9:9, 46:2,	4 5: 5	35 : 6, 35 : 8
made	462:6, 462:8,	mention	mischaracterizes
3 3: 8, 353: 2,	463:5	395:2	3 2: 8, 3 3: ,
360: 3, 38:2,	marketplace	mentioned	3 5:6, 3 6: 4,
387:7, 390: 3,	376:2	383:8, 39 : 7,	349:9, 354:2 ,
392: 3, 396: 2,	marking	420:9, 429: 9,	363: 6, 364:22,
396: 9, 396:2,	462: 5	433:22	365: 4, 409: 5,
397:6, 399:2,	marriage	merely	456:3, 46 :8
40 :4, 406: 2,	467:24	37 :8	misspoke
4 0: , 432: 3	matching	messed	330: 7, 362: 2
main	458:20	358: 0	mistakes
405: 3, 407: 9	material	messing	447: 9
nake	390:22, 39: 4	450:	mn
3 2: 4, 3 5: 4,	materials	met	308: 2
3 8: 9, 338:6,	364: 2	3 5:2, 357:5,	models
353:7, 367:4,	matter	357: 3, 359:5	46 :2
374:4, 374: 2,	3 0:7, 3 2:4,	method	modification
	3 2:7, 434: ,	384:8, 385:2	45 :8, 45 : 5,
		25.3.00	73. 57. 73. 11.31.
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

			A Committee of the Comm
45 : 8	multiplicative	404:9, 4 4: 0,	339:20, 342: ,
modifications	320:8, 428: 5,	437:6, 437:7,	342:2, 344:22,
387:7, 388:22	428:22, 429:20	450:2, 450:5,	345: , 352:5,
modified	myself	450:6, 45:9,	352: 2, 352: 4,
323:8, 323: 3,	347: 7	452:8	352: 9, 352:22,
327: 9, 329:5,	N	needed	353: , 353:4,
329:7, 387:6		396:20, 40 :	353:5, 353: 3,
modifying	name	neither	353:2 , 354: 0,
327: 6, 328: 6,	355: 4, 407:2 ,	4 0:3	354: , 354: 6,
422: 4, 424: 3	422:9, 423: ,	never	354: 9, 355:7,
moment	426:3, 45 :6	400: 2	355: 0, 355: 3,
	named	new	355: 7, 355:20,
32 :2 , 324: 4,	407:2 , 407:22,		356:3, 358: ,
357:9, 394:20,	408: , 408:6,	396:6, 4 0:20	360:7, 360:9,
426:9, 432:8	450:2, 45:	next	
monitor	namely	334:4, 334: 3,	36:0,36:,
3 0: 5	387:9	335:20, 383:3	36: 7, 36: 8,
months	names	ninth	362:20, 363:4,
4 4:	355: 5, 356:2,	307:8, 308: 0,	363: 0, 363: 2,
more	365:22, 422:2,	467: 8	363:22, 364: 9,
322: 0, 323:3,	430: 0, 430:	nods	365: 2, 377: 5,
327:20, 328:2,		435:22	377: 9, 394:6,
343:8, 345:6,	450: , 453: 8,	none	394: , 402:9,
373:3, 387: 2,	453: 9, 456: 3	4 6: 8	403: 2, 404: ,
390:2, 390:20,	narrative	nonresponsive	404: 7, 407:20,
40 : 7, 407: 4,	342:20, 344:3,	437: 6	407:2 , 407:22,
4 2: , 4 4:22,	373: 9, 388:		409: , 4 0: 6,
	narratives	normal	4 :4, 4 :8,
4 8: 3, 436: 2,	454: 3	382: 7, 396:2	4:,43:6,
445: 7, 453:5	national	notary	4 4: , 4 4: 8,
morning	306:5, 3 0:7,	467: , 467:3,	4 5:8, 4 6: 5,
3 0:4, 3 : 9	3 :2	467:35	426: , 429:2,
most	nature	notations	432: 7, 433:8,
350:2 , 350:22	390:3, 390:2,	392: 3	
motivation	4 6:3, 454: 5	note	438:9, 448: 4,
440: 8	necessarily	360:5, 360: 2,	453: 5, 455: 9,
motor	3 2: 6, 3 3:8,	367:4, 454: 8	456: 8, 458: ,
345: 6, 387: 3,		noted	458: 3, 458: 7,
436: 4, 457: 8	3 5:4, 340: 0,	330:2, 33:,	460:9, 467: 3
move	342:6, 4 9: 9	352: 6, 360:6,	number's
428: 3, 428: 4	necessary	360: , 379: ,	362: 9, 368:7,
moving	387:2, 387:8,		369: 2, 379:20,
role and a contract of the con	388: , 393:5,	386: , 39 :6	399:22, 400:8,
389: 2	393: 0	nothing	40 :3, 405:22,
much	need	4 9: 2	407:2, 4 5:5,
35 :3, 35 :4,	3 2: 0, 3 4: 0,	noticed	4 7:8, 4 7: 6,
35 :9, 367: 3,	3 4: 5, 3 9:3,	328:20	420: , 429:4,
373: , 436: 4	344: , 345:5,	number	434:3, 453: ,
multiple	346:5, 350:8,	306:9, 3 0:8,	459: , 459: 2
34:, 42:3,	360:5, 367: 3,	3 :4, 333: 9,	numbered
443: 3	-55.57	333:20, 335:8,	339:
			559.

numbering	objectionable	oh	46 :3, 46 : 2,
382:22	388:6	338: 4, 438: 2,	462:2 , 463: 5,
numbers	objections	459:22, 462: 6,	464:8
0,6,	, ,	464:9	once
367:2 , 369:3,	3 4: 3, 3 5: 9,	okay	436:20
4 3: 0, 427:7,	3 6:2, 3 8: ,	3 2:3, 3 3: ,	one
430: 2, 453: 0,	368: 7, 374:4,	3 5: 2, 3 7: ,	3 2:9, 3 9:3,
453: 4, 453: 9,	374:8, 374: 2,	3 8:22, 3 9:2 ,	3 9:7, 322: ,
456: 4	374: 5, 378: 4,	320:4, 320: 3,	324:5, 324:8,
numeral	386: 7, 387: 6,	32 :4, 32 : 9,	327: 5, 339:20,
340:22	387: 7, 404:8,	323:5, 326:3,	340: 0, 348:5,
numerous	404:20, 407: 2,	328:6, 329:9,	358:3, 358: 4,
370: 0	432:3, 439: 5,	329: 8, 333: 0,	378:8, 379:8,
0	44 :3, 445: 3,	334: 9, 337: 0,	379: 5, 38 : ,
	446:9, 45:2	339: 3, 340:20,	383:3, 384:5,
oath	observable	34: 9, 344:8,	390: 4, 394:8,
343: , 343:4	436: 7, 436: 8	345: 2, 348: ,	394: , 398: 8,
object	observed	348:2 , 349: 2,	407:20, 407:2 ,
3 2: 7, 3 3: 0,	436:20	350: 5, 350: 9,	407:22, 408: ,
3 3: 2, 3 5:5,	obvious	35 : 2, 352: 6,	408:5, 4 2:6,
3 6: 3, 3 7: 9,	357:	355:2, 355: ,	4 2: 4, 4 6:4,
3 8:6, 3 9: ,	obviously	357: 4, 360: 5,	4 6: 2, 4 8: ,
320: 7, 32:20,	440: 4	36 :7, 36 : 3,	424:6, 425: 6,
322: 2, 326:8,	obviousness	362:8, 366:4,	427:2, 432: ,
326: 3, 326:22, 327: 0, 329: ,	375: 8	366:7, 37 :7,	434:7, 437:6,
330:9, 33:7,	occurred	372:22, 373: 6,	442: 3, 445: 7,
332:20, 333:7,	393:20, 397:5,	376:5, 376: 8,	452:6, 453:5,
336: 4, 337: 2,	467: 7	386: 0, 39:3,	453:8, 454:6,
340:2, 345:22,	occurring	393: 4, 400:20,	459: 2
346:7, 347: 0,	398: 8	404:4, 404:9,	ones
349:8, 352:20,	october	405:5, 4 0:9,	3 3:8, 3 5:3,
354:20, 356:22,	4 5: 8, 438:8,	4 : 5, 4 :20,	376:3, 422:2,
358:5, 358:20,	438:9	4 2:8, 4 2: 3,	427: 9, 435:3
363: 5, 364: 0,	offer	4 3: 6, 4 9:4,	ongoing
364:2 , 365: 3,	348: 3, 349: 5	4 9:22, 42 : 6,	446:
366:2, 373: 8,	offered	42: 8, 422:7,	only
380:8, 384: ,	347:7, 349:2,	424:20, 427:22,	348:4, 353: 8,
387:20, 387:22,	349: 0, 377: ,	428: 0, 429: 6,	372:2, 374:4,
388:7, 392:22,	390:5, 39 : 4,	430: 5, 435: 9,	395: , 4 0: 2,
4 0: 8, 4 3:4,	4 5: 0, 434:5,	437:2 , 438: 5,	4 : 0, 4 2:2,
4 3: 7, 437: 0,	463:20	438: 9, 439:22,	4 2:6, 4 2: 4,
437: 5, 445: 0,	offering	440:20, 44: 3,	4 6: 3, 4 9:8,
454:7, 456:7,	3 3: 7, 325:3,	445: 5, 446: 9,	4 9: 5, 442: ,
457: 0, 46:7,	348:8, 452:	449:2, 449: 8,	453:5, 454: 3
463: 9	office	452:3, 454:4,	open
objecting	306: , 3 0: 0,	455: 6, 457:7,	353: 7, 376:6,
404:6, 4 9:20	3 0: 8	458:4, 460: 4,	436: 3
101.07 1 7.20	offices	460:20, 460:2 ,	openness
	307:7, 467: 8		4 5:
	307.77 407. 0		

	Conducted on I	December 6, 2019		61
operates	4 : 9, 437:7,	367:5, 380:7,	part	
40 :7	453:2 , 455: 8,	382: 5, 396:8,	352: , 368: 9,	
operation	464: 5	446:6, 454:9	4 0: 9, 4 7:8,	
0	orderly	overall	420: 9, 447: 5	
opined	388:2	396:9, 4 8:20	partial	
4 0: 6	ordinary	own	4 4:8	
opinion	437:7	3 6: 2, 344:3,	participated	
324: 8, 324:20,	original	4 4:4, 4 4:6,	444:2	
325:3, 346: 7,	309:7	450: 9	particular	
346:22, 348: 3,	other	owner	320:2, 368:2 ,	
348:22, 349:2,	326:5, 328: 0,	306: , 308:8,	38 : , 392: 8,	
349: , 349: 4,	335: 3, 340: 2,	455: 4	40 : 3, 405:8,	
349:20, 354:4,	344: , 344:3,	owners	405: 6, 408:8,	
354: 7, 359:8,	350:9, 360:3,	4 3:22	4 7:9, 420:2 ,	
359: 6, 362: 8,	362:9, 362: 3,	P	424:7, 424:8,	
376:22, 377:5,	362: 8, 364:8,	page	425: 5, 426:6,	
377:6, 377: ,	364:9, 364: 3,	309:2, 332:7,	427:20, 445: ,	
39 :7, 393: 5,	382:20, 387:5,	352: , 354:5,	449:2	
394:3, 394: 3,	388: 8, 389:4,	378:2, 422:5,	particularly	
395:3, 395:5,	389: , 390: ,	422:8, 428:9	407: 5, 4 6: 4,	
395: 2, 397: ,	390: 2, 392: 5,	pages	447:	
12 :2, 430: 8,	394:2 , 395: ,	306:20, 4 3:5,	parties	
132: 5, 433: ,	398: 9, 405: 5,	4 4: 5, 4 8: 7,	467:23, 467:25	
133:2, 435: 0,	424: 6, 425:7,	424: 9, 426: 9,	parts	
435: 2, 436: ,	426:22, 427: 4,	427:5, 427:7,	385:2	
440:4, 44 :2,	430:6, 433: 0,	427:2 , 429: 7,	party	
44: , 45:0,	434:8, 435:3,	430: 4, 444: 3,	467: 2	
45 : 4, 45 : 8,	440:3, 440:22,	444: 5, 444: 6	pass	
463: 5, 463:2	442: 3, 448:4,	pair-wise	366: 7, 454:5	
opinions	448:7	382: 2, 384:22	patent	
3 3: 7, 3 5:8,	others	pairs	306: , 306:3,	
3 6:4, 347:7,	4 2:	382: 3	306: , 306: 3,	
347: 5, 348:9,	otherwise	paragraph	306: 4, 306: 5,	
353:22, 36 :2,	340: 8, 467:26	334: , 338: 0,	308:8, 3 0:9,	
36 :6, 36 : 5,	out	345: 4, 354: 7,	3 0: 0, 32 :9,	
362: 5, 363: 3,	3 4:9, 326:7,	355:4, 360:6,	325:20, 330:4,	
364: , 364: 6,	342:20, 357:7,	36 :2 , 362:2,	332:2, 335: 3,	
365: 0, 390:4,	385: 7, 4 4: 5,	362:6, 362:7,	339: 9, 34 : 6,	
39:, 39:4,	4 4: 6, 4 8: 4,	362: 3, 376:2,	342:3, 344:2,	
393: 8, 394: 2,	438:20, 439:6	377: 0, 386:20,	345:6, 352: 3,	
394:2 , 448: 7,	outcome	394:3, 395:4,	352: 5, 354: 3,	
149:6, 452:	467:27	395: 6, 439: 7	358: , 358: 8,	
pposing	outside	paragraphs	360:8, 360: 0,	
1 6:9	3 3: 2, 346:8,		4 3:22, 42 : 5,	
ptions	347: , 4 9:8,	354:22, 362:4, 362:9, 407: 4	42 :2 , 424:8,	
344:	437: 7	362:9, 407: 4	430: 8, 430:22,	
order	over	308:4	438:6, 452:8,	
400: 6, 405: ,	3 6: 0, 359: 4,	308:4	455: 4, 463: 3	
William St.	T. 400 Jan. 6381. 25.		2.500 V 2.000 M 15.00	
			111 97 99	
		41		

patents	440: 5, 443: 9	pointed	367:9, 367: 4,
3 5: , 3 9:5,	perspective	385: 7	4 4: , 4 4:9
32 : 4, 33 :3,	394: 5	points	prepared
340:22, 358: ,	petitioner	0	357:6, 4 4;
375:3, 387:2,	306:7, 308:2,	portion	prepping
389:6, 394: ,	3 : , 4 3: 7,	379:6, 403: 7,	366:6
394:5, 397: 9,	4 5: 7	4 7: 9, 4 9:9,	present
40 : 5, 405: 8,	ph	, 0	00 6
406:7, 420: 3,	306: 9, 307:4,	portions	389:2, 39:22,
42 :4, 42 : ,	308: 5, 3 : 2,	3 7: 2, 4 8: 7,	398:3, 398:7,
428: 8, 428: 9,	466:3, 467:5,	444:7, 445:4,	405: 8, 408: 7,
429: , 429:5,	467: 7	457:4	409:6, 409:7,
436:5, 438: ,	phinney	position	423:5, 433:9,
452: 2, 463: 8	308: 5	4 5:5	436:2 , 448: 8
patents-	phrase		presume
436:2	322:6, 328: ,	possibility	424: 0
patents-in-suit	360:7	357:7 possible	prevented
452: 2	phrases	The second secon	455: 9
pct		4 0:3	previous
438:7, 438:8	323:	post	
pd	piled	352: 2, 352: 4,	328:22, 342:7,
407:2 , 4 7: 0,	392:22	360:8, 360: 0	373:22, 384: ,
420: 9, 430: 9,	place	potentially	396:5, 404:3,
434:4, 458:6,	3 0: 7, 389:	336: 2, 4 4:22,	436: 5, 445:
	places	436: 7, 440: 8	previously
458: 0, 459: 4, 46 : 5	360:3, 38:7,	pour	390: 6
	38 :8	342:20	primarily
pen	planet	power	332: 4
335:22	3 0: 6, 3 :8	338: , 338: 6,	print
percent	plano	338:2 , 338:22	4 8: 4, 444: 3
444:2, 46:6,	308:6	practice	printed
46:0	please	353: 5, 42:3,	309:6, 370: 5,
perform	3 0:20, 3 :9,	42 : 0	37: 4, 4 3:5,
383: 0, 393:6,	3 8:9, 32 :6,	practiced	4 3:6, 4 4: 6,
399: 9, 409: 0	32 : 7, 32 :22,	356:2 , 358:2,	4 7: , 4 8:5,
performance	325:8, 325: 2,	358: 9, 374:22,	4 8:6, 4 8: 8,
46 :	325: 9, 33:2,	408:22, 409:4,	444:7
performed	332:6, 335:2 ,	420: , 429:2	printout
345: , 399: 8,	34 :5, 350:7,	practices	4 7:7, 422:8
400: 4, 443: 4	366:9, 387:22,	358: 3, 423: 0	prior
performs	388:7, 404:6,	precise	395:6, 396: 2,
422: 3	445: 4, 462:6	379:4	433: 3, 436:22,
perhaps	point	prefer	463: 6
397:8	323: 2, 352:7,	334:4	privileged
period	352: 0, 354:5,	prejudicial	455:5
446:6, 446: 8	354: , 376:22,	4 3:22	probably
permitted	377:9, 377: 4,	prep	3 9:7, 350:20,
456: 2	377:2 , 378: ,	452:20	350:2
person	425:2 , 463: 7	prepare	problem
348:5, 437:6,		3 :20, 3 2: ,	395: 0, 396: 8,

	Conducted on I	December 0, 2019		05
404: , 46 :22	364: 9, 374:22,	440: 8	3 6: 6, 3 6: 8,	
proceed	383: 7, 43 : 3,	pto	3 6: 9, 3 8:6,	
367: 5, 388:2,	439:20, 447: 4,	4 4: 9	3 8:9, 320:4,	
4 6:22, 437: 9,	448: 9, 457:3,	pub	326: 0, 327:2,	
449: 9	458:6, 458: ,	438:7	329:2, 330: 5,	
proceeding	458: 4, 458: 7,	public	330: 9, 340: 5,	
369:5, 37 : 5,	458: 8, 46: 6,	353: 7, 4 4:2 ,	34 :5, 34 :20,	
376:9, 386: 5,	463: 0, 463: ,		342:7, 342: 3,	
404: 7, 4 5:2,	463: 6	467:35	342: 5, 343:5,	
460:8	professional	publicly	343: 2, 343: 9,	
proceedings	467:2	438:	344:6, 344: ,	
4 4:20, 4 6: ,	program	published	344: 2, 345:4,	
448:2, 460: 2	392: 2, 392: 4,	436:22, 438:2,	345:7, 346:5,	
process	4 8: 3	438:3	346:20, 346:22,	
382: , 382: 7,	programmed	pull	357:8, 357: 6,	
383:4, 392:20,	435: 4		357: 8, 357: 9,	
396:2, 443:6	programmer	376: 8, 42 : 3	358: 0, 36 : 4,	
processes	392: 4	pump	362: , 368:2 ,	
354:4	programmers	333: 5, 333: 9,	373:9, 373:20,	
produced	392: 5	333:20, 334:2,	373:2 , 373:22,	
365: 8, 405:7,	programs	334:4, 334: 3,	374:2, 374:3,	
	365:3	335:2, 336: 2,	380:3, 380:9,	
4 4: 7, 458: 5		336:2 , 34 :8,	384: , 386: ,	
product	proper	34 : 4, 34 : 8,	387:20, 388:2,	
3 3:9, 3 3:20,	437:2	34 :22, 342:5,	388:5, 388:8,	
324:2 , 325:22,	properly	344:2 , 345: 5,	39 : 2, 403: 6,	
356: 5, 356:2 ,	335:	345: 6, 346: 3,	404:6, 404: 0,	
357:20, 357:2,	protective	349: , 349:6,	404: 3, 407: 8,	
358: 2, 358: 5,	400: 6, 4 : 9,	349: , 349: 6,	430:3, 434: 4,	
358: 6, 359:2, 363:2 , 364:4,	453:2 , 455: 8	425: 8, 425: 9	435:3, 437: 5,	
	provide	pumps	437: 7, 437: 8,	
364:9, 364: 3,	342: 3, 347: 4,	342:4	444:3, 445: ,	
375:22, 396: 0,	348:2 , 354:3,	purpose	453:5, 454: 4,	
436: 9, 448: 3,	355:6, 359:2,	342:9	455:6, 455: 6,	
459: , 459: 2 production	359:8, 359: 6,	pursuant	458:8, 459: 0	
459:	36 :8, 36 : 6,	4 : 8	questioned	
7.7.7.1	363:4, 363:8,	put	370: 0	
products	363:2 , 364: 7,	332:4, 352:9,	questioning	
3 2: 2, 3 2: 5,	4 5: 0, 437: ,	4 :5, 4 :6,	454:7	
3 2:20, 3 3:4,	463: 5	4 :7, 4 : ,	questions	
3 4:20, 3 5:2,	provided	4:3,4:6,	3 4: 4, 3 6: 0,	
3 5:4, 3 5: 7,	309:8, 333: ,	4 2:2, 44 : 6,	3 6: 2, 3 6:2,	
3 6:5, 355:8,	356:6, 373: 9,	460:	- 3 6:22, 3 7:6,	
355: 7, 355:20,	382: 4, 39:2,	Q	— 3 9:7, 326:5,	
356:4, 356:7,	394: 3, 405:22,	quality	342: , 342:22,	
356: 8, 36 :9,	459: 5	396:9	343:4, 359: 4,	
36 : 0, 36 : 6,	provides	question	366: 6, 367:2,	
36: 7, 363: ,	363: 0, 388: ,	3 3:22, 3 4:5,	368:6, 369:2,	
363:3, 364: 8,	397: 9, 437:5,	2	300.0, 309.2,	
		11 (5,		

	Conducted on i	December 6, 2019		64	
369: 2, 369:20,	394:5, 396: 6,	366: 4, 366: 9,	354: 2, 359:2,		
370: 2, 373:4,	397: 9, 453: 7	366:2 , 367:2,	408: , 424: 2,		
373: 3, 374:20,	reasons	367:4, 37:9,	434:22, 456:20		
385: 5, 385: 9,	377:22, 409:2	4 0:20, 4 2: 5,	refers		
385:20, 388:6,	recall	4 2:20, 4 3:2,	3 2: 9, 3 2:20,		
388: 0, 4 :3,	3 7:8, 3 7: 0,	4 3:8, 424:2 ,	322:4, 323:20,		
453:9, 454:5,		427:4, 429: 5,	332: 4, 337: 0		
454: 2, 464:7	320: , 320: 4, 320: 9, 353: 4,	430:4, 432:22,	reflect		
quick		434: 9, 442:4,			
	353: 8, 367:20,		334: 2, 334: 4,		
3 9:5	368:3, 369: ,	442:7, 442:9,	442:9, 460:6		
quicker	369:9, 369: ,	45 : 7, 452:22,	reflected		
457:5, 457:9	369: 9, 370:9,	453:3, 454: 8,	34 : 4		
quickly	375:8, 375: 3,	460:5, 460: ,	refresh		
387: 2	382: , 382: 6,	463: , 463:3,	460:2, 460:7,		
R	444: 4, 457:2,	463:7, 464: 2,	460: 7, 462:5		
rapidly	457:6, 458:5,	467:9	refused		
436: 2	458:9, 463:9	recross	4 5:		
rather	received	454:20	refusing		
372:	4 7:2	red	343: 4, 343: 6,		
	receiving	335:22	343: 8, 344: 3,		
re-depose	369:20	redirect	344: 7, 346:20		
4 4: 0	recess	367: 0, 374: 4,	regard		
reach	33 : 5, 360:20,	4 4:7, 454:8,	368: 5		
387: 2, 387: 4,	366: 2, 366:22,	454: , 455:2,	7.7.7.7.0		
398: , 457: 8	4 2:2 , 442:5,	457:2, 463:9	regarding		
read		refer	3 2:6, 3 3: 9,		
3 3:5, 3 4:2 ,	453: , 463:4	TO THE PARTY OF TH	3 6:5, 325:3,		
330: 5, 332:22,	recite	336:2 , 34 : ,	326: 6, 328:20,		
335:5, 339: 9,	428:20	355: 9, 433: 6	339: 6, 348:9,		
358:4, 359: 3,	recited	reference	348: 3, 359:8,		
360:9, 375: ,	426:9	435:6	359: 6, 362: 5,		
392:7, 392: 5,	recites	referenced	363: 3, 364: ,		
403: 8, 403: 9,	328: 2	355:3, 362:22,	374:2 , 379:2,		
408:2 , 466:4	recognize	364: 3, 369: 4,	379:3, 407: 7,		
reading	4 7:3	383: 4, 459: 6	4 0:5, 4 4:		
	recollection	references	registered		
345:6, 457: 2	324: 5, 326:2,	458: 6, 459:8	467:2		
reads	370:4, 39:0,	referencing	regular		
394:4	444:5, 446: 0,	422:6	464:22		
realization	460:3, 460:7,	referred	reincorporated		
396:2	460:3, 460:7,	3 6:6, 3 6:7,	389: 0		
really	recollections	337:6, 337:8,			
3 5: 4			relate		
realtime	372:2	362:3, 387:3,	360:2, 377: 0,		
464: 6	record	394:9, 397:2,	393: 9, 393:22,		
reask	33 : 4, 33 : 7,	40 : 6, 406: 8,	405: 4, 428: 7,		
386:	334: 2, 334: 4,	407:4, 433: 2	445:5		
reason	352: 0, 360: 7,	referring	related		
3 6:9, 393:9,	360: 9, 360:22,	326: 0, 338: 7,	3 2:3, 3 7: 3,		
3 0.9, 393.9,	366:9, 366: ,	34 :7, 34 : 0,	323: 8, 368:7,		
	CARAGO CONTRACTOR		The car and any		

37 : 2, 423:9, 440: 0, 440: 6, 449: 4, 450:3, 458:6, 458: 0,	404: 0 remote	464: 9, 464:22, 465:3, 467: ,	4 5:5
149: 4, 450:3, 158:6, 458: 0,	remote		1 des des 10 des
		100.0, 101.	response
162 2 167 00	6, 66,	467:3	
163: 2, 467:22	337:4, 337:8,	represent	restate
relates	337: 9	3 0:2 , 462: 2	325: 5
346: 8, 359:22,	remove	representative	restating
377: 5, 377:2 ,	8 8	408:9	450: 9
378:2, 428:3,	removed	represented	restore
145:2, 447: 3	393: , 395:7,	420: 7, 430: 9,	399:5
relation	396:7	467: 3	restored
390:22	repeat	representing	399:
release	3 4:5, 346:5	3 0: 6, 3 : ,	restrictions
436:22, 44 :7,	repeatedly	3 :4, 3 :8,	400: 5, 4 4:5
459:4, 459:6	4 5:7	455: 3	result
released	rephrase	request	457:5
363: , 433:7,	353: 0, 36 : 3,	4 9:8, 443:	retained
134:2, 434:8	363:9, 445: 8	requested	309:7
releases	replaced	38 :2, 405: 0	revealing
148: 3	3 3:22	require	455:7
relevant	report	320:6, 320:8,	reversion
390:4	3 2: 4, 3 2: 9,	322: 7	395:5, 395: 4,
reliable	3 3:6, 3 4:2,	required	44 :9
383:2 , 385:2	3 5:22, 3 6:6,	340: , 342: 0,	revert
reliably	3 6:7, 352: 7,	454: 4	396:
384:4, 384: 6	352: 8, 352:2,	requires	reverted
relied	353:6, 353:20,	322: 0, 322: 5,	
120:6, 420:7,	353:22, 355: 2,	322: 9	389: 3, 397:3
128:3, 448: 5,	355: 6, 356:2,	reread	review
148: 6	359: 2, 359:20,	3 4:7, 358:9	4 5: 3, 447:22,
relief	360:3, 36:6,	respect	448:4, 448:7,
345: 6	363:20, 364:4,	3 3: 9, 3 5:9,	448:8
rely	364:8, 365:	3 9: 3, 3 9: 6,	reviewed
363: 2, 420:2	4 0:2 , 4 6: 6,	320: , 320:22,	400:8, 402:8,
relying	4 6:2 , 443:8,	326:20, 327:3,	402:9, 403:22,
353:2 , 354: ,	458: 3, 458: 6,	327:7, 327: 3,	404: , 404: 6,
364: 4	459:5, 459:8,	330:5, 330:6,	404: 8, 408:20,
remains	463: 5	33 :4, 33 :9,	4 0: 6, 4 5: 8,
4 6:4	reported	354: 3, 354: 6,	4 7: 5, 433: 0,
remember	306:24	355:7, 355:9,	443: 9, 444:8,
373:9, 375:4,	reporter	355: 2, 355: 6,	445:4, 446:20,
1 5: 5, 4 6: 9,	3 :7, 3 :9,	356:3, 356:7,	448: 9, 449: , 449:5
	32 :6, 32 : 0,	365:3, 369:4,	
14 : , 449: 3, 450:3, 452:9	325:8, 325: 4,	380:3, 383: 3,	reviewing
remembering	33 :2 , 348: ,	389:7, 389: 7,	3 8:20, 460:6
324: , 448:2	348:4, 350:6,	4 0:8, 4 9: ,	reviews
the state of the s	350: , 423: 7,	450:7, 450:	32 :22, 333:22,
remembers	434: 3, 443:2,	457:3	338: 3, 394:22,
37 :5, 37 :8	151. 5, 445.2,	307.5	433: 9

rewritten	3 9:4, 327:2,	352: , 393:3,	359:2 , 359:22,	
390: 7	339:7, 339: 5,	397: 6, 406:2,	360:2, 392:20,	
right	339:20, 339:2,	452:	393: 2, 393: 6,	
	340:5, 340:22,	science	393: 9, 394: 0,	
3 2: 4, 3 2: 6,	34:, 34:,	347:2	394:22, 395:3,	
326: 6, 328: 0,	34 : 9, 34 :20,	scope	442: 0	
	342: , 342:5,	3 3: 3, 346:8,	see	
329:2 , 330: ,	344:22, 349: 8,			
333:3, 333:6,		346: 7, 347: ,	3 4: 4, 32 : 4,	
335:4, 335:8,	357: 6, 360:5,	350: , 380:8,	322: 8, 324: ,	
336:7, 337: 7,	364:2, 372: 5, 377:2, 38:9,	380: 6, 382:9,	326: 6, 327: 5,	
339:2, 347:9,		384: 4, 384: 9,	328: , 329:2 ,	
349:5, 35 : 4,	38 : 6, 38 :22,	385:7, 385: 0,	330:2 , 334: 7,	
35 : 7, 35 :22,	382: 0, 383: ,	385: 9, 387: 8,	336:2, 336:7,	
357:3, 357: 0,	386: 7, 387: 6,	388:20, 389:22,	336: 9, 338: 5,	
373:8, 39 :20,	389: 5, 390: 0,	390:9, 39:8,	338:22, 394:2,	
4 2: 3, 4 3:3,	390: , 393:9,	395: 7, 397: 4,	402:6, 403: 4,	
4 9: 4, 427:9,	394: 7, 400: 8,	398:9, 399:7,	404: 4, 4 :22,	
432: 2, 442: 9,	404:20, 407: ,	402: 2, 402: 6,	4 2: 0, 427:20,	
448:2 , 450:8,	4 6:7, 422: 6,	405:4, 406:20,	428: , 428: 4,	
460: , 46: 8	422: 8, 422:22,	407: , 408: 3,	459: 9, 460: 8	
rothschild	423: , 423:4,	4 3:2 , 4 5:6,	seeing	
307:7, 308:9,	430:3, 43 : 6,	4 9: , 437: 7,	339:2	
3 0: 8, 3 :4,	432:3, 439: 5,	439:2, 439: 0,	seems	
167: 8	44 :3, 446:9,	440:6, 452: 5	3 6: , 357: ,	
rough	45 :2 , 453: 7,	screen	399: , 4 9:5	
3 6: 0, 464: 6,	462: 0, 464: 5,	403:8	seen	
465:	464:20, 464:2 ,	seal	40 :2, 4 8:4	
rpr	466:5	4 6:2, 4 6:3	select	
306:24, 467:33	save	second	306: 0, 38 :5,	
rule	3 9:2	33: , 332:7,	4 3:5, 4 4: 4	
357:7	say	336:5, 345: 7,	send	
7/7/2-7-1	3 3:3, 3 4: 8,	358:3, 376: 2,	336:	
S	3 6:4, 3 8: 9,			
said	330:3, 33 :2,	380:6, 380:7,	sense	
330: 3, 367: 5,	335: 2, 340: 7,	402: 3, 423: 9,	374:7, 382:22,	
387: 6, 389: 5,		, 0,	397:9, 434: 9,	
390: , 39 : 9,	34 :2 , 342: 9,	445: 3, 449: 6,	440: 7	
428:5, 434:8,	343:7, 344:5,	464:	sensing	
44 : 6, 446: 9,	352: 3, 372: 4,	secondary	323: 5, 323: 6,	
447: , 450: 4,	377: 7, 378:5,	, ,	323:20, 323:2 ,	
450:20, 452:7,	393:9, 396: 5,	375: 9, 375:20	327:2 , 327:22,	
455:22	408: 9, 4 9: 8,	secondly	328:3, 328:4	
sale	420: 5, 42: 4,	400:2	sensor	
134:5	435: 9, 442:2	seconds	349:22, 350:	
same	saying	360: 7, 44:2,	sentence	
3 4:3, 3 5: 9,	376: 6	463:	352: , 360:7,	
	says	section	395:4, 457:7	
3 6:2, 3 7:5,	3 : 5, 337: 5,	354: 0, 354: 5,	separate	
3 7: 6, 3 8: 4,	345:20, 346:2,	359: , 359: 9,	400: 4	
		555. , 555. 5,	400. 4	
			11 1 0	

separately	signature-bi6ds	sir	4 0: 6, 4 :4,
379: 8, 405: 9	467:3	332:7	4 :8, 4 : ,
session	signed	sit	4 3:6, 4 4: ,
1	66	, 0,	4 4: 8, 4 5:5,
set	significant	372:3, 372:20,	4 5:8, 4 6: 5,
323: 2, 405:7,	33 :9, 383:2	373:8, 447: 8	4 7:8, 4 7: 6,
4 4: 5, 4 4: 7,	significantly	sitting	420: , 429:2,
, 6 6,	32 : 5	, 0 ,	429:4, 432: 7,
467:29	signing	447:6	433:8, 434:3,
sets	448: , 448:5	situation	453: , 453: 5,
400: 3, 400: 7,	similar	398: 7	455: 9, 456: 8,
456:20		six	458: , 458: 3,
seven	3 8: 7, 330:5,	444:2, 444:5	458: 7, 459: ,
	33 :4, 352:5,		459: 2, 467: 3
35 : 0	355:6, 357: 8,	size	slight
several	362:3, 378:9,	4 8: 4	3 8: 5, 328: ,
3 3: 6, 370:3,	389:7, 389: 4,	sizewise	329: 6
374:20, 444: 5,	389: 6, 399:8,	4 7:	slightly
446:3, 446:7	406: 4, 424:3,	skill	3 6: 9, 379:2
sheet	425:8, 426: 0,	437:7	small
466:9	427:2, 434:3	sleep	
shorter	similarities	306:9, 3 0:8,	4 8: 4, 4 8: 9
323:3	33 :9, 36 :22,	3 :4, 333:6,	sn
shorthand	377: 7, 377: 9,	352:5, 352: 2,	309: , 4 9: ,
467:	378:7, 378:20,	352: 4, 352: 9,	460:9
should	379:3, 379:7,	352:22, 353: ,	snisc
3 3:5, 3 4:2 ,	379:8, 380: 3,	353:4, 353:5,	4 3: 5, 422:8,
343: 7, 352:9,	38 : 7, 382: ,	353: 3, 353:2 ,	426:2, 428:9
352: 3, 360:9,	404: 5, 4 0:5,	354: 0, 354: 6,	software
377: 7, 4 3: 8,	4 0:7	354: 9, 355:7,	347:2, 348: 9,
428:2 , 453:22	similarity	355: 0, 355: 3,	349:2, 349:2,
show	379: 2, 379: 4,	355: 7, 355:20,	352:4, 352:6,
38 :7, 40 :9	379: 6, 379: 9,	356:3, 360:7,	352: 2, 352: 4,
showed	38: 3, 394:6,	360:9, 36:0,	352: 9, 352:22,
388:22	40 :9, 40 : 2,	36: , 36: 7,	353:2, 353:4,
showing	402: , 402:2,	36: 8, 362: 9,	353:5, 353: 3,
367:22, 368:8,	433:4, 434:7,	362:20, 363:4,	354: , 354: 4,
369:5, 369: 5	44 :6	363: 0, 363: 2,	355: 0, 355: 3,
shows	similarly	363:22, 364: 9,	355: 7, 356:4,
428:22, 429:2	426:2	365: 2, 368:7,	360:8, 360: 0,
side	simplicity	369: 2, 377: 9,	365:3, 377: 8,
3 8:2 , 332:4,	332: 9	379:20, 394:6,	377: 9, 378:5,
	simply	394: , 399:22,	379:20, 379:2,
354: 6, 354: 9	342: , 344:5,	400:8, 40:3,	389:5, 394:7,
side-by-side	359: , 37 :22	402:9, 403: 2,	394: , 395:20,
36 :9, 36 : 2,	since	404: , 404: 7,	395:22, 396:2,
364: 7, 365:2,	3:9,3:2,	405:22, 407:2,	396:4, 396:7,
365:6, 409: 0,	4 5: 8, 424:9	407:20, 407:2,	396:8, 396: 0,
409: 8	single	407:22, 409:	397:3, 397: 7,
signature	3 9:3, 370:3	10.122, 103.	
466: 2	3 9:3, 3/0:3		

398:4, 404: 5,	sorry	standing	467: 8
405: 4, 4 7:8,	3 9:9, 32 :7,	4 8:22	stretch
4 8: 2, 422: 2,	324: 9, 325: 5,	start	44 :22
43 : 2, 433:6,	325: 7, 335: 2,	66 , 6 ,	strike
433:8, 433: 5,	338: 4, 348: ,	382: 9, 435: 7	324: 9, 34 :8,
434: , 434:3,	353: 0, 356: 7,	starters	356: 7, 358: 4,
436: , 437: ,	36 :3, 370:2 ,	400: , 400: 9	36 :3, 362:8,
44 :7, 44 :8,	395: 3, 402: ,	starting	402: , 458:8
445:2, 445:6,	403:7, 408: 5,	338: 0, 386: 9,	structural
457: 5	4 9: 8, 420:9,	387:2 , 463: 0	332: 4, 339: 6,
software's	423:6, 428: 3,	state	345:9, 346: 9,
40 : 2, 402:7,	430:7, 43 : 5,	3 0:2 , 330: 9,	347:4, 348: 0,
403:9, 403:2	437: 4, 438: 7,	334:7, 352:3,	348: 7, 447: 3,
software-based	439:5, 445: 5,	395: 5, 467:3,	448: 7
386:22, 406: 4,	449: 9, 456: ,	467:36	stuff
4 0:5, 42 : 0,	460: 0, 460: 5	stated	32 : 2
13 :8	sounds	3 3: 5, 336: 5,	substantial
software-related	409:20	336:22, 347:5,	378:6
3 5: 0, 447: 7	south	354:4, 386: 9,	substantially
sold	307:7, 308: 0,	394:3, 409:22,	330:5, 33 :4,
159: 3	467: 8	427:3, 433:20,	352:5, 383: 6,
solved	speaking	436:9, 450:2,	406: 3
395: 0	3 8: , 3 8:7,	455: 6	success
some	447:	statement	376:
3 8: 5, 3 9: 4,	specific	3 4:2, 3 8: 9	successive
3 9: 7, 320:6,	3 8:4, 353: 4,	statements	396:3
320:7, 332: 2,	355:2 , 365: 8,	3 3: 8	suddenly
338:7, 357: 2,	365:2 , 368: 3,	states	442:20
368: 8, 382: 9,	37:, 373:3,	306: , 3 0:9,	sufficient
390: 2, 390:22,	430: , 456: 2	377: 5, 395:4,	347: 6, 359:3,
39 : 9, 396: 7,	specifically	432:20, 438:7,	383:9, 383: 5
396: 8, 397:8,	3 2:2 , 326: 7,	439: 6	sufficiently
398: 7, 398: 9,	354: 2, 368: 9,	static	449:5
106:3, 407: 6,	40 : 7, 43 :22	384:6, 405:9,	75/2 3/4L3 L V L L L L L L L L L L L L L L L L L
140: 5, 442: ,	specificity	443: 2	<pre>suggesting 403:20</pre>
143: 5	373: 5, 407: 6,	step	
something	456: 5	394: 5, 422: 3	suggestion 403: 6
322:9, 322: 4,	specified	still	3.7.7.7
323:22, 339: 7,	3 5:22	377:5, 45 :3	suite
357:8, 396: 3,	speculation		307:8, 308:5,
429:2 , 436: 6,	3 7:20, 337: 3,	stolis 308: 6, 3 0: 6	308: , 467: 9
140: 5, 442:2 ,	357: , 358:7,		summarize
144: , 444: 6,	358:2	stop	457:8
157:5	speed	388: 3, 404:6	summarized
somewhere	394: 7, 398:2,	stored	362:7
349: 7	406: 0	45 :	super
sooner	spencer	storing	390:20
464: 7	308:3, 3 :	329:5, 329:7	superficial
	500.5, 5	street	390:3, 390:2
		307:8, 308: 0,	

	Conducted on December 6, 2019		09
supplemental	426:8, 427: 5,	40 : 6, 40 : 9,	450:7, 453:8
360: 3, 407: 7,	433: 3, 436:3,	406:8, 406:9,	testimony
420:20	436: , 437:9,	406: 9, 407:5,	3 2: 8, 3 3: 2,
supply	438:22, 439:8,	408:4, 408: 0,	3 3: 3, 3 5:6,
338: 2, 338: 6,	457: 3	408: 6, 409: ,	3 5: 6, 3 7: 7,
338:2 , 339:	systematically	409:5, 420: 2,	346:9, 347: 2,
support	384:2	42 :3, 425:9,	349:9, 368: 8,
, 8,	systems	425: 4, 425: 7,	370: 4, 370: 7,
36 : 5, 362: 8,	347:3, 436: 5	425: 9, 426:8,	37 :2, 37 :6,
363:5, 363: 3,	T	427: 4, 428:6,	37: 2, 372:7,
363:22, 364: 6,	take	— 433: 3, 436:3,	372: , 372: 5,
365: 0	3 9:5, 33 : ,	436: 0, 436: 2,	372:2 , 39 : 7,
supported	348:5, 350: 4,	437:9, 438:2 ,	409: 5, 4 5:6,
354:9	367:8, 44:9,	439:7, 457: 3,	454: 6, 466:5,
supporting	462: 0, 464:	457: 5, 457: 9	466:7, 467:9
455:20	taken	targets	tests
supports	307:5, 467:8	428:7	457:22
362: 4, 440:4,	taking	taught	text
44 :2	3 0: 7, 367: 2	40 : 4	392: 4
supposed	talk	technical	thank
337: , 4 4:20	3 2:6, 385: ,	376:2, 395:9,	3 :6, 3 8:22,
sure	4 2: 7, 4 6: 6,	395: 4, 395: 5,	325:6, 330: ,
330: 7, 334: 0,	455:3, 455:9	398: , 398: 4,	34 : 4, 344: 9,
352:22, 363:7,	talked	398:2 , 398:22,	345:5, 345: 2,
365: , 377: 2,	3 2: , 3 7:8,	400: 9, 440: 2,	355:22, 357: 4,
422:7, 428:5,	3 7: , 399: 7,	440: 7, 44: 0	359:6, 360: ,
430:6, 437:20,	4 6: 3, 443: 3,	tell	366:4, 366: 5,
443:3, 450:20,	443: 4, 455: 3	329:3, 343: 6,	4 2: 7, 4 5:3,
457: , 46:6,	talking	344: 0, 349:6,	4 9:4, 425:4,
462: 0	3 3:6, 3 3:7,	459: 2	432:6, 439:22,
swear	3 4:22, 3 5:3,	telling	
3 :9	320:2, 368: 4,	346:2	458:4, 460: 3,
switching	368: 7, 368:20,	tend	463:22, 464:5,
44 : 8	37 :2, 37 : 0,	4 8: 9	464: , 465:3
sworn	378: 7, 379:5,	tens	theft
3 : 4, 467:7	392:20, 394: 0,	4 8: 6	40 :5, 432: 0,
system	4 8: 5, 424:7,	termed	432: 4
387:4, 387:9,	424: 0, 456: 8,	375: 9	themselves
387: , 394: 6,	458:5, 458:9	terms	0
395:8, 397:2,	talks	33:0,398:2,	therefore
397:22, 399: 0,	36 :22	406: 4, 409:22	348:8, 396: 9,
40 : 7, 406:8,	target	testified	396:22, 40 :6
406: 9, 407:5,	323: , 387:4,	37 :5, 399:20,	thereto
408:5, 408: 0,	387:9, 387: 4,	409:9, 409: 9,	355: 6, 356:3,
408: 7, 409: ,	394: 7, 395:7,	420: 0, 43: ,	363:20
409:4, 409:6,	397:20, 397:22,	432:8, 435: 4,	thing
420: 2, 42:3,	398: , 399: 0,	436: 0, 443:5,	3 2: 0, 339:2 ,
425: 0, 425: 4,	Depart 212 113	443: 8, 444: 7,	34 : 9, 350:2 ,
	-		

390: , 395:2,	405:6, 405:8,	trademark	twice
424:6, 429: 9,	424: 9, 426: 9,	306: , 3 0: 0	443: 9
442: 4, 454:6,	430: 4, 439:20,	tradeoff	two
462:	443:7	8 8	0 0
things	thursday	training	32: 3, 330:2,
330:2 , 357: 7,	467: 9	347: 6, 347:22,	339:22, 359: 3,
362: 8, 375:2,	ties	348:7	365:3, 39:0,
44 :5, 443:3,	429:3	transcript	39: , 434:7
452:7	time	4 9:9	tx
think	3 0: 4, 3 9:2,	transcription	308:6
3 3: 5, 3 5:7,	325:2, 348:5,	466:7	type
3 8: 0, 322: ,	35 :3, 35 :4,	transducer	355:6, 379:22,
324:4, 329:6,	366: 6, 367: 3,	345: 9	384:6, 398: 7,
330: 7, 330: 8,	382:2 , 396:8,	7 7 7 7	
335: 7, 337: 4,	4 2: 2, 4 4:9,	translated	402: , 409:20
		39:20	typical
342: 0, 342: 4, 350:22, 355: 8,	4 9:6, 446:6,	trial	396: 6, 4 8: 2
	449: 7, 464:6	306:3, 3 0: 0	typically
357:2, 358: 0,	timeline	true	340:7
364:3, 365:5,	363: , 44 :7	390: , 466:6,	typo
367:5, 372: 4,	timelines	467:9	362: 2
373:7, 376:4,	448: 3	truthful	Ü
379:4, 382: 5,	times	343:22	um
387: 6, 390: 4,	3 3: 6, 433:6,	truthfully	334:6
395:8, 397:4,	458: 7	343: 2	unclear
398: 5, 400:22,	timing	try	373:2
402: 6, 403: 5,	393:2	3 4:6, 357: 6,	under
407: 5, 408: 6,	today	4 5: 5	
4 0: 2, 4 0:22,	3 0: 5, 3 :7,	trying	4 6:2, 4 6:3
435:2, 438: 6,	35 :5, 35 :7,	3 5: 4, 3 5: 5,	understand
440: 6, 44:4,	372:3, 386:3,	3 5: 4, 3 5: 5, 3 5: 6, 3 9:2,	327:2, 327:5,
444: , 450:4,	399:20, 440:22,		332: , 332: 6,
459:22, 46:,	443:6, 447:6,	4 4:7	332: 8, 333: ,
46 :5, 462: 7,	447: 9	turn	339: 9, 340:4,
462:20, 464:2	today's	332: , 332:6,	340:6, 340:2 ,
thinking		338:4, 350:5,	343: 0, 343:
320: 0	3 0: 3, 3 :2, 3 2:	35 :20, 352: ,	understanding
thirty		359: , 359: 9,	32 : 2, 332: 2,
44 :2	together	376:20, 393: 2,	332: 3, 342: 2,
thought	429:3	42 : 7, 436: 3,	375: 2, 375: 4,
330: 3, 354:3	took	44 : 5	375: 5, 375: 6,
thousands	389:	turnaround	4 0: , 4 7: 0,
	tool	465:	438:5, 438:6,
4 8: 6	38 :4, 38 : 0,	turning	438: 0, 438: 9,
three	383:20, 384:2	344:2 , 345: 3,	439:5, 439: 2,
44 :5	tools	387: 3, 425:6,	439: 4, 452:6,
three-day	380:22, 38:,	427: 3	453:20, 456:9,
464: 6	405: 0, 443: 5	twenty-four	456:2
through	top	337:22, 338:	undo
384:22, 402:3,	320:20, 444: 4	twenty-one	396: , 397:
	Welleria Smith	35 : 3, 35 : 5	390: , 397:
		30 : 3, 35 : 5	

undone 404: 389: 3, 396:20 4 0: united 435: 06 , 0 443: unless
353: 7, 442:20, 464: 7 unpack 429:6 unredacted 325:9, 356:9, 369: 6, 372:8, 4 6:8, 4 6: 0, 423: 2, 447:22, 454:3, 456: 6 until 357:9 unusual 396: 0 update 40 : 9 updated 322:4, 322:6, 328: 3, 329: 3 usage 457: 2 use 322:22, 335: 2, 339:20, 370: , 38: 6, 38:22, 40: 8, 402:3, 40: 8, 402:3, 43:4, 4 4:5, 435: 5, 456:9, 436: 5, 456:9, 457: 4, 460: 7, 46: 5, 463: 7 user 336: 8, 356: 5, 336: 8, 357:20, 336: 8, 357:20, 336: 8, 357:20, 338: 3, 329: 3 user 336: 8, 356: 5, 336: 8, 357:20, 358: 2, 358: 5, 436: 7, 436: 8, 436:20 uses 322:6, 323:3, 328: 5, 329: 3, 339:394: 357:2, 358: 6, 359:2, 38: 0,

452: 9, 454: 9	winland	337:3, 337: 9,	.412
we're	394:9, 408: ,	338:2, 437:7	309:5
3 3:4, 3 3:6,	408:6	writing	. 462
3 3:7, 33 : 3,	wish	334: 3	0 0
33 : 6, 350: 9,	372:4, 44 : 7	written	0
360: 8, 366: 0,	within	390: 6, 435: 4,	00
366: 3, 366:20,	345: 0, 348: 4,	435: 9, 435:2,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
367: , 37 :9,	, 6,	436:3	465:5, 467:2
379:5, 4 0: 8,	350: , 365: 9,	wrong	00133414
4 0:22, 4 2: 9,	38 :7, 392: 4,	455: 7	439: 8
4 3:3, 424: 0,	405: 3, 4 5:6,	15000.3 -0	0015
434: , 442:3,	420:3, 42:22,	Y	4 3: 5
442:6, 442: 6,	425: 4, 444: 9,	yeah	0021013
443: , 453:2,	447:9, 447: 2,	330: 7, 335:20,	309: , 460:9
454:6, 456: 8,		403:3, 433:2,	0021014
463:6, 464:2,	447: 7	433: 8, 450:20,	309:
465:2	without	456:8, 456:22,	0027
	3 8:20, 342:8,	459:20	422:8
we've	356: 3, 357:5,	year	0029
4 4:9, 430:9,	367:22, 368:8,	382: 6	426:2
440: 3, 44:5	369:5, 369: 5,	years	0030
went	370: , 436: 3,	384:5, 396:	428:9
367: 0, 384:2 ,	455:7	yesterday	00497
405:8, 443:6	witness's	3 :22, 3 2: 2,	
weren't	462:5	3 3: 6, 3 4:20,	306: 3, 3 0:
356:6	word	3 7:9, 32 :3,	00500
whatever	328: 6, 352:8,	32 : 6, 35 :9,	306: 4, 3 0: 2
434: 6	435: 5, 450:9,	367:20, 368:3,	00514
whereas	46 :5	369: , 369: ,	306: 5, 3 0: 2
328: 5	wording		01
wherein	3 8: 6, 3 9: 9,	370: 0, 372: ,	467:34
323: 0, 425: 8	320:22, 328: ,	374:20, 386:3,	09
whereof	329: 3, 329: 6	386:5, 390: 5,	420:22
467:29	words	39: 7, 4 5:9,	1
whether	334: 3, 387:5,	4 5: , 43: ,	1
320:20, 339:22,	389:4, 389: ,	443:5, 444:3,	4 2:20, 4 3:2
	435: 8, 450: 9	449: 2, 452:5,	1-f
349: 6, 353: 2, 356: 6, 356: 9,	work	464: 5, 464:20,	424: 5
	363:2 , 364:4,	464:2	1.8
357:4, 357: 2, 357:2 , 358: 6,	364:9, 364:4,	yesterday's	
		3 5: 6	379: 3, 380: 3,
359:4, 375:2,	395:2	yup	38: 4, 38: 8,
376: , 376:2,	works	35 :6, 404: ,	382:7, 382: 8,
378:7, 380: 2,	405: 2	464: 8	387:7, 389:2,
382:5, 405: 6	wouldn't		— 389: 5, 389: 7,
whole	357:2 , 358: 6,	.0	— 389: 9, 390:7,
350:8, 37 :3,	392:5	42 :	394:4, 394: 9,
454:7	write	.311	397:7, 397: ,
willing	334:4, 334:8,	309:3	397: 7, 398:7,
344:7	335: 8, 335:20,	309.3	The Property

399:2, 406:2, 422: 9, 424:2, 426: , 429:9, 430: , 430: 2,	420:3, 420: 8, 42:22, 425:6,	174	2018
422: 9, 424:2, 426: , 429:9,	42 .22 425.6		
426: , 429:9,	72 .22, 720.0,	326: 2	4 5: 9, 446: 2
	427: 3, 428:2,	18	2019
430: 430: 4.	430:20, 442:4,		06 , 06 ,
432:2, 432:4,	442: 5	328: 2, 360: 9,	306: 5, 306:2,
434: , 439: 9,	12	426: 9	307:5, 3 0: ,
463: , 463: 7	309: 0, 323:8,	- 10 A E - 3	-30:2,30:4,
1.9	323:9, 327: 5,	2	- 446: 2, 446: 7,
379: 5, 382:8,	327: 6, 335:8,	2	
		442:4, 442:7,	467:20, 467:30
382: 8, 386:7, 386:2 , 387:7,	335: 4, 335:2 ,	452:22, 453:3,	2058
	352: , 354:5,	463:3, 463:7,	460: 2
388: 7, 389:2,	354: 2, 367:2,	464:	2070
389:7, 389: 3,	4 0: , 46 :2 ,	2.0	462:5
39 :6, 39 : 3,	462:6, 462:8,	379: 3, 38: 8,	2079
397:7, 397: 2,	463:5	382: , 382:8,	460:8
398:3, 398:7,	13	389: 6, 390:8,	22
399:3, 399:9	378:2	399: 3, 406:22,	336:7, 336:20,
1.92	14	422: 9, 430: 2,	337:4, 337:20,
379: 5, 382: 8,	336:2, 336:4,	432:5, 434:2	360:22, 439: 8
386:22, 389:3,	336:5	2.3	222
389:4, 39 :6,	15		307:7, 308: 0,
39:3, 399:5,	32 :7, 4 3: 9,	42 :	467: 8
399:8	420:22, 442:7	20	24
1.97	154	324: 0, 324: 5,	
379: 3, 380: 4,	32 :9, 322:3,	324: 8, 324:22,	338:2, 338:20,
38 : 4, 382: ,	322: 5, 322:22,	325: 2, 325:20,	339: , 339: 3,
382:8, 389:8,	323:8, 323: 0,	326:4, 333:20,	34 :8, 34 :
389: 4, 389: 7,		334:2, 334: 3,	26
	324: 0, 324: 6,	334: 5, 34:8,	452:22
389:20, 399: ,	325:20, 327:7,	34 : 7, 342: ,	27
406:22, 422: 9,	327: 6, 328: 2,	342:2, 344:22,	4 3: 5
430: 2, 432:4,	330:4, 33:3,	345: , 345: 5,	273575
434:2	332:4, 376:8,	35 : , 426: 9,	306:23
10	387: , 389:6,	467:34	28
32 :7, 329:4,	393:22, 394:4,	2000	4 3: 5
360: 9, 360:22,	8, 0	307:8, 308: ,	29
366: , 366: 4,	405: 8, 408: 8,	467: 9	376:2 , 377: 0,
366:2 , 4 0: 3,	408:2 , 409:4,	2008	4 3: 5
4 2:20	4 0:6, 420: 3,		
100	42:4, 42:5,	438: 7	3
46 :6, 46 : 0	42 :2 , 424: 0,	2009	3
1018	428: 8, 430: 8,	438:8, 438: 2,	465:5, 467:2
428: 4	430:22, 436:4,	438: 6	30
1026	463: 3, 463: 8	2010	33 : , 35 : 8,
428:8	16	420:22, 438:9,	360: 7, 4 3: 5,
11	329: 2, 354: 2,	438: 3, 438: 8	44 :20, 463:
	367:2, 4 3: 5,	2014	306
309:5, 4 2:22,		439:20	306:20
4 3:4, 4 3: 3,	4 3: 9	2016	31
4 7:3, 4 7: 4,	172	439:2	33 : 4, 467:34
	354: 3		33 : 4, 46/:34

Conducted on I	December 0, 2019	/4
50 362:6 500 08, 6, 460: 2 51 362:6 514 460:8 52 362:6 53 395:4, 395: 6 54 362:7 55 463:3 55402 308: 2 57 307:6, 463:7, 467:20 58 3 0: 5 59 464: 66 650 308:5 67 430: 4 69 430: 4 61 307:5, 3 0: 4 7 747 3 7:9, 32:2, 32:8, 322:6, 322: 6, 322: 9, 324:2, 327:7, 328:9, 328: 5, 329:4, 329: 0,	34 : 0, 34 : 6, 342:2, 344:2 , 356:20, 358: 8, 387: , 389:6, 394: , 394:4, 397: 8, 40 : 5, 405: 8, 408: 8, 4 0:7, 420: 3, 42:4, 428: 8, 436:4, 438:6, 463: 8 75024 308:6 757 463: 3 8 8 8 307:6, 3 0: 5, 467:20 8,769,747 306: 3 81 429: 7 82 429: 7 82 429: 7 887 422:9 8th 438:8 9 9 9 33: 4, 33: 7 9,737,154 306: 4 978 426:2 9th 467:30	
	50 362:6 500 08, 6, 460: 2 51 362:6 514 460:8 52 362:6 53 395:4, 395: 6 54 362:7 55 463:3 55402 308: 2 57 307:6, 463:7, 467:20 58 3 0: 5 59 464: 66 650 308:5 67 430: 4 69 430: 4 61 307:5, 3 0: 4 7 747 3 7:9, 32:2, 32:8, 322:6, 322: 6, 322: 9, 324:2, 327:7, 328:9, 328: 5, 329:4, 329: 0, 329: 2, 329: 7, 330:4, 33: 3,	362:6 500 08 , 6, 356:20, 358: 8, 387: , 389:6, 394: , 394: 4, 397: 8, 40: 5, 405: 8, 408: 8, 40: 8, 40: 8, 40: 8, 40: 8, 40: 1, 40: 8, 40: 1, 40: 8, 40: 1, 40: 8, 40: 1, 40: 8, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1, 40: 1,