	tttates		20 017	19799 ADA	1410 AV	·
Contract of the second	error a version is a four food and a food a	that the first of the seed field gar all	iana ta ini ta da a	a az z az az en	٠.	
Market				í		
					·	
**FOREIGN/PCT APPLICAT	T T CWW. The decide to the decide to the second					
VERIFIED	and Carlotter and the Carlotter and Carlotte					
G NONE	. •					
					•	
of M. market and the Control of the		and the second second	· ·			
		•				
FOREIGN FILING LICENS	E GRANTED 07/20/95				•	
Foreign priority claimed yes on no 35 USC 119 conditions met yes on no	STATE OR SHEE		INDEP. CLAIMS	FILING FEE RECEIVED	ATTORNEY'S DOCKET NO.	
Verified and Acknowledged Examiner's initia		3 18	3		PD-92654A	1
KAREN L LUM 2 HUGHES AIRCRAFT COMPA	MY				,	
BUGHER ALKCKÆFT COMPA LBLDG C1 MAIL STATION PO BOX 80028	A126					
LOS ANGELES CA 90080-	-0028					
PROCESS OF MANUFACTUR	PING A MICDOELECTE	TIP THEN IT I	ET LICETAL	en de la compansión de la	e ann ann ann ann ann ann ann ann ann an	
SUPPORT SUBSTRATE AND 	ETCH-STOP	•	IIS DEDT	OF COMM / DAT	9 This PTO 4001	D10 0
SUPPORT SUBSTRATE AND	ETCH-STOP		U.S. DEPT.	OF COMM./ PAT.	& TM-PTO-436L (
PARTS OF APPLICATION FILED SEPARATELY	ETCH-STOP		U.S. DEPT.	\ \ \(\langle \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	7-7-90 le love	
PARTS OF APPLICATION				راری Applicati CLAIMS A	7-7-90 Le Cone ons Examiner LLOWED	
PARTS OF APPLICATION FILED SEPARATELY	DAVID E. GRAY	BILL	U.S. DEPT.	راری Applicati CLAIMS A	7-7-90 LE CONE ONS Examiner LLOWED Print Claim	
PARTS OF APPLICATION FILED SEPARATELY NOTICE OF ALLOWANCE MAILED		BILL		Application CLAIMS A	7-7-90 Print Claim	
PARTS OF APPLICATION FILED SEPARATELY NOTICE OF ALLOWANCE MAILED UNITED TO SEPARATELY ISSUE FEE	DAVID E. GARY Assistant Examiner MLL	Andrew Control of the State of		Application CLAIMS A	7-7-90 Print Claim	
PARTS OF APPLICATION FILED SEPARATELY NOTICE OF ALLOWANCE MAILED ISSUE FEE Amount Due Date Paid	DAVID E. GAAY Assistant Examiner John Niebling	and the state of t	Total C	Application CLAIMS A	7-7-90 Print Claim	
PARTS OF APPLICATION FILED SEPARATELY NOTICE OF ALLOWANCE MAILED UNITED TO SEPARATELY ISSUE FEE	DAVID E. GARY Assistant Examiner MLL) •xaminer	Total C	CLAIMS A Claims DRAV	7-7-90 Print Claim	
PARTS OF APPLICATION FILED SEPARATELY NOTICE OF ALLOWANCE MAILED ISSUE FEE Amount Due Date Paid // A	DAVID E. GRAY Assistant Examiner John Niebling Supervisory Patent E Patent Examining Gr	xaminer oup 110 rimary Examin	Total C	CLAIMS A Claims DRAV Drwg. Figs. D	7-7-90 Print Claim	
PARTS OF APPLICATION FILED SEPARATELY NOTICE OF ALLOWANCE MAILED ISSUE FEE Amount Due Date Paid // A	DAVID E. GATY Assistant Examiner John Niebling Supervisory Patent Examining Gr	xaminer oup 110 rimary Examin	Total C	CLAIMS A Claims DRAV Drwg. Figs. D	7-7-90 Print Claim	
PARTS OF APPLICATION FILED SEPARATELY NOTICE OF ALLOWANCE MAILED ISSUE FEE Amount Due Date Paid // A	Assistant Examiner John Niebling Supervisory Patent E Patent Examining Gr PREPARED FOR IS WARNING: The information disclo	xaminer roup 110 rimary Examin SSUE sed herein may I	Total C Sheets ISSUE BATCI NUME be restricted.	Drwg. Figs. D	Print Claim VING Print Fig. Print Fig.	O sited
PARTS OF APPLICATION FILED SEPARATELY NOTICE OF ALLOWANCE MAILED ISSUE FEE Amount Due Date Paid // A	DAVID E. GAAY Assistant Examiner John Niebling Supervisory Patent E Patent Examining Gr	xaminer roup 110 rimary Examin SSUE sed herein may I	Total C Sheets ISSUE BATCI NUME be restricted.	Drwg. Figs. D	Print Claim VING Print Fig. Print Fig.	O sited
PARTS OF APPLICATION FILED SEPARATELY NOTICE OF ALLOWANCE MAILED ISSUE FEE Amount Due Date Paid // A/250.00 DISSUE FEE Label Area	Assistant Examiner John Niebling Supervisory Patent E Patent Examining Gr PREPARED FOR IS WARNING: The information disclo	xaminer roup 110 rimary Examin SSUE sed herein may I	Total C Sheets ISSUE BATCI NUME be restricted.	Drwg. Figs. D	Print Claim VING Print Fig. Print Fig.	O sited
PARTS OF APPLICATION FILED SEPARATELY NOTICE OF ALLOWANCE MAILED ISSUE FEE Amount Due Date Paid // A	Assistant Examiner John Niebling Supervisory Patent E Patent Examining Gr PREPARED FOR IS WARNING: The information disclo	xaminer roup 110 rimary Examin SSUE sed herein may I	Total C Sheets ISSUE BATCI NUME be restricted.	Drwg. Figs. D	Print Claim VING Print Fig. Print Fig.	O sited
PARTS OF APPLICATION FILED SEPARATELY NOTICE OF ALLOWANCE MAILED ISSUE FEE Amount Due Date Paid // A/ / 2,50.00	Assistant Examiner John Niebling Supervisory Patent E Patent Examining Gr PREPARED FOR IS WARNING: The information disclo	xaminer roup 110 rimary Examin SSUE sed herein may I	Sheets ISSUE BATCI NUME be restricted. ections 122, I to authorize	DRAVE Drwg. Figs. D. Drwg. Figs. D. Drwg. Figs. D. Drwg. Figs. D. Drwg. Barbara discussion of the property of	Print Claim VING Print Fig. Print Fig. Print Fig. Print Fig. Print Fig.	O sited
PARTS OF APPLICATION FILED SEPARATELY NOTICE OF ALLOWANCE MAILED ISSUE FEE Amount Due Date Paid // A/ / 2,50.00	Assistant Examiner John Niebling Supervisory Patent E Patent Examining Gr PREPARED FOR IS WARNING: The information disclo	examiner oup 110 rimary Examin SSUE sed herein may Code Title 35, Soffice is restricted	Sheets ISSUE BATCI NUME be restricted. ections 122, I to authorize	DRAVE Drwg. Figs. D. Drwg. Figs. D. Drwg. Figs. D. Drwg. Figs. D. Drwg. Barbara discussion of the property of	Print Claim VING Print Fig. Print Fig.	O sited

	Application papers.	
12.	Pre Amat B	(0-7-95)
13.	Disclosure Stat	(0-7-95 (0-7-95
Le 17 14.	Motice it allowance	Lx:17.96
9494 15.	magazio responserenza de destre 128	8/21/96
16.	PTO Grant JAN 07 1997	
17.		<u> </u>
15.	Mark 12 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
19.		Č:
20.		
21.		M. Halla Annotation of Management and Annotation of the Annotation
22.		
23.		
24.		
<u>25.</u>		
20-		
27.		<u>, </u>
2.8.		**************************************
29.		
<u>30.</u>		
31.		· ·
32.		
<u>33.</u>		
34.		
35-		
<u>36.</u>		
37. 35.		
<u>39.</u> 40.		
40.		
42.		
- 42	(FRONT)	
į	(11011)	

JOUE, UNIGINAL	PATENT NUMBER		80-11 by 11			
INTERNA	TIONAL CLASSIFICATION					
011	21 / 283		 			
011	21 / 56	- COOLUE		<u> </u>		
OIL	21 / 58	GROUP A	SSISTANT EXAMINER (PLEASE STA DAUID E, GI	IMP OR PRINT FULL NA PA YBILL	(ME)	
011		1107 F	RIMARY EXAMINER (PLEASE STAMI	OR PRINT FULL NAM	Ē)	
		<u> </u>		5/11/2	ENT OF COMMERCE	
270 . 5-91)	ı	SSUE CLASS	FICATION SLIP	PATENT AN	D TRADEMARK OFFICE	1
	Claim Date		*200 * 4 + 4 *			
	Pinal Original Christianal			Final		
	E 5 96			51	++++	\dashv
	2 2			52		
	3 3			53		
	4 4			54	- - - 	
	5 5	_		56		
	6 6 7 7			57		
	4 8			58 59		
	9 9 1			60		
	10 10 =			61		
	11 (12) =			62		_
	12 13 =			64		
	3 (5) =			65		
	14 16			66		
	15 17		· .	68		
			•	69		
	18 20 =			70		
	21			71 72		
	22			73		
•	24			74		
	25			75 76		
	26			77		
	28			78		
	29		SYMBOLS	80		
	30		=Allowed	81		
	32		- (Through numberal) Canceled +Restricted	82 83		+-+-
	33		N	84		
	34	1-1-1	A Appeal O Objected	85		
	36			86		+
	37	+++-		87		
	38 39	 		89		+
	40			90	+	+-
	41			91 92	+	
	42 43	+	1	93		1-1-
	44			94		+-+-
	45			96		
	46 47	+++	-	97		4-4-
	48		1	98		++
	49			99	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

CORPS CORR.		
SPEC. HAND	·	
FILE MAINT.		
DRAFTING		

INDEX OF CLAIMS

	. 1				D=4				
Cla	aim	-,,			Date				
<u></u>	Original	32/40							
Final	, j	46							
1	$\tilde{(1)}$	10							
	2	干	_		-				
=		1							
3	3	\perp							
4	4								
N134150	5	$\vdash \downarrow \vdash$							
6	6	1							
7	7								
49	8	\sqcup							
	9	ĺ							
10	10	=							
	×								
11	(2)	=							
12	13	=	· · ·						
<u> </u>	M								
13	(15	-	_		_				
14	16	П							
11	17	+				_			
117	18	$\vdash \vdash$				-			
15	19		 						
117		-	<u> </u>						
18	20	=		L					
	24								
	22								
L	23								
	24								
	25								
	26								
	27								
	28								
	29	<u> </u>							
 	30	 	\vdash						
-	31	-	-						
-	32			 					
-	33		-		-	 	-		
-			 -		<u> </u>				
	34			_		<u> </u>			
<u> </u>	35	 	<u> </u>			├	 	<u> </u>	<u> </u>
<u> </u>	36		<u> </u>	<u> </u>		<u> </u>		<u> </u>	
	37	<u> </u>			<u> </u>				
	38			ļ		<u> </u>			
	39	<u> </u>	<u> </u>	<u> </u>	L	<u> </u>	<u> </u>	<u> </u>	
L	40	L	L		L	L			L
	41								
	42								
	43						l		
-	44	_	 	 		_		-	
\vdash	45	 		 		 		-	
	46				-				
-	47			-	-	 	 	-	
	ļ			-	-	-			
	48		ļ	<u> </u>	<u> </u>	ļ		<u> </u>	
	49	<u>L</u> _		ļ		<u> </u>			
Ĺ_	50	<u></u>	ļ	<u></u>	<u> </u>	<u> </u>	L	<u></u>	<u></u>

	SYMBOLS	
<u>~</u>		Rejected Allowed
	(Through numberal)	Canceled
Ň		Non-elect
A		Appeal

Cla	aim				Dat	е			
Final	Original								
	51								
	52								
	53								
	54					_			
	55								
 	56								
	57								
	58	—							
	59								
	60								
	61				<u> </u>				
	62								
	63								
	64								
	65								
	66								
	67								
	68								
	69								
	70								
<u>├</u>	71					 			
<u> </u>	72								
	73								
	74								
	75	-							
-	76		-						
	77								
	78								
	79								
	80								
	81								
	82								
	83								
	84								
	85								
	86				ļ		<u> </u>		
	87				_				
L_	88				<u> </u>		ļ		
	89	<u> </u>		<u> </u>		ļ	<u> </u>	<u> </u>	
<u></u>	90								<u> </u>
	91								
	92								
	93								
	94								
	95								
	96			<u> </u>					<u> </u>
	97								
	98								
	99	T .			T_				
	100								



	-				
SPARCH	437	SEARCH	15L	148	100
UPDATR	915	UPDATE	632,662, 901	Di6, 135,	NI 125
6-12-96	9-8-94	9-8-94			
	Ø-	0]

INTER	FERENC	E SEAR	CHED
Class	Sub.	Date	Exmr.
437	208	6-12-96	<i>O</i> -
156	662,630,	6-12-96	Ø-

SEARCH N	OTES	
	Date	Exmr.
APS (PRINTOUT)	11-30-93	0
Japan Salah Sa		
*		



DOCKET

Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

