SECTOR	CLASS	SUBCLASS	ART U	NIT	EXAMINE						
		1. 53		200	1	OPE					
	<u> </u>			FILE	D WITH: D	ISK (CRF) FICHI					
					Intab	Poores ou ngrit moide liap					
					- 7	h					
	PR	EPARED AND	APPROV	ED FOR	ISSUE	(QL)					
		ISSUING (CLASSIFI	CATION							
	ORIGINAL			CROSS REFE	RENCE(S)						
Cl.AS	S SUBCLAS	S CLASS	SUB	CLASS (ONE	SUBCLASS PER E	вьоск)					
340	539	506	531	81506 J	17 533	825.49					
-1 - 1 7 1 4	TIONAL CLASSIFICAT	ION	1								
608B	/ 08		#								
	 		#								
	 //		 -								
++-	 		#		atinued on Jesus Ch	ip Inside File Jacket					
					miliaed Off Issue Off	P maine i ne odovet					
TEF	RMINAL	DRA	AWINGS	, T	CLAIMS ALLOWED						
L DIS	CLAIMER	Sheets Drwg. Fi		rint Fig.	Total Claims Print Claim for C						
		9/	M^{\prime}	5	18	1/1					
a) The t	erm of this patent				NOTICE OF AL	LOWANCE MAILED					
subsequent	to (date)	100000	narl	(Data)	1-16-01						
	sclaimed. erm of this patent shall	(Assistant Examir	101)	(Date)							
not extend l	peyond the expiration date	DARY	LPOPE								
of U.S Pate	nt. No	PRIMARY	EXAMINER		ISSUE FEE (V						
		(Dan / C	Pon o 1	14/01 1	Amount Due	Date Paid					
		(Primary Examin	ier)	(Date)	1620-00	110-1-01					
c) The t	erminalmonths of	MARLLA	(1)	1/12/20	ISSUE BA	TCH NUMBER					
this patent h	nave been disclaimed.	(Legal Instruments Ex	xaminer)	(Date)	5/1	4					
WARNING The information		etrioted Illnouthories a dis-la	ocura mau ha	ited by the the	nd State - Sect - 1	/ Continue 100 101					
Possession of	on disclosed herein may be re utside the U.S. Patent & Trade	mark Office is restricted to au	sure may be prohib ithorized employees	and contractors	only.	35, Sections 122, 181 and 3					
Form PTO-436A (Rev. 10/97)											
	ASSUR THE	EN STATE	ABEL AREA)	awings (shis) sed_						
		(L	ABEL AHEA)								

(FACE)



. /	3. Jan	_ 11/00/1991	44		
2/25	(4. 2 il 3	3-01-00	45	<u> </u>	
1	5. Pruis art	4/21/00	46	•	
ſ	· SWIN. IDS	USIN EI	47		
]	7 Am d+ A	6/5/00 BM	48.		
	e.T.Ds.	713.00	49		_
	Mino Rea (3 molath)	V R-15-00	50		
ا 🗸	10. Reg for Potonsides at	wo The 10-19-00			
/	11 TIDS Wefs		51. 2 52.		
	12 Interview Jummary	11-15-10	53		-
, de	13. Xotter	2-20-01			
	14 2xt: (A Jimo (B)	2-82-01	54		
J. A.	15 Notine A Wallow	-2-20-01Ca	55		
	13. PURITURE PROPERTY	7-16-01	5/56.		
NO	160 2000	9-28-01	57		
9	17. Tormal Drawings	$\frac{1}{10000000000000000000000000000000000$	58		
Î (13 rath waller a mark	9 18-0	59		
0	19.		60		
			61		
	21		62		
· .	22		63		
	23		64	•	
-	24		65		
4	25	•	66		
	26.		67		
1	27		68		
d	28		69		
	29.		70		
	30.		71		
Ý	31.		72		
1	32,	-	73		
	33		74		
j J	34		75		
į.	35		76		
j	36.		77		
1	37.		78		
j	38		79		
á I	39	<u></u>	80		
il .	49		81		
	41.	, se	82		
		(FR	ONT\		



								(TI	hro	ugh	nur	nera	<i>I</i> I) Ca F	nce	led	ed				Α						App	ea	l	ice						
Cla	im					Dat	е						Claim					Dat	e					Cla	aim					Dat	е				
Final	Original	22%	360	1186	`								Final Original											Final											
	2	¥	<u>Y</u>	=					<u> </u>	_		-	51 52		L						_			<u> </u>	110	\perp	4	_		_					
अला <u>ज</u> र	3	H	-	HH			-				\dashv	}	53		├		-	_			_			-	112 113		-		\vdash						
12	4	Н	╫	+	\neg		_		├-	_	\dashv	- }	54		├			-		-	-	_	_	-	114		-	\neg			_		\dashv	\dashv	
13	5		T	1	7			-	<u> </u>	<u> </u>	\dashv	r	55		\vdash			H			-	-		-	115	\dashv	H			-					
6	6												56												116	\top							\neg		
1 1.4	7	Y	V	1									57												117										
8	8		_	V	_				<u> </u>			Ĺ	58	+-	ļ						_		Ш	Ĺ	118									_	
-	9 10		-		\dashv			<u> </u>	-	_	_	-	59		-	_						-		-	119	Н.				_			_	_	
-	11	-	-	-	\dashv			-	-	\vdash	Н	ŀ	6		-							-	\vdash	\vdash	110	\dashv	-	-							
-	12	┢	-		_		$\overline{}$				\dashv	ŀ	62	1	 	-					\dashv		\vdash	-	112		-					-			
	13		-				_				\vdash	1	63		1	-				\vdash		\dashv	\dashv		113	+	\dashv	\neg					-		
	14									Г		Ī	64											_	114								_		
	15												65												115										
_	16	_	_		_				_	L		-	66	_	<u> </u>										116										
_	17	_	_		_		L_	L	-	L	\Box	-	67		_			_			_	_	_	<u> </u>	117	_	_							_	
-	18	ļ	ļ	\vdash	-	-			<u> </u>		\dashv	}	68	-	ļ		_					_		-	118	_	_				_		_		
-	19 20		-				-	-	-		\vdash	- }	69 70					-		-			\vdash	-	119	\dashv	4								
-	21		-	 	-4						-	}	71		-			$\left - \right $					\Box	-	120 121	4	\dashv	\dashv					\dashv		
	22	-	-	\vdash	-				-	_	\dashv	ŀ	72		├			_				\dashv		-	122		\dashv	{			_	-	{	\dashv	
	23	-	-				_		-	-	-	ŀ	73		┢╾	_			_	-	-		\dashv		123		-	\dashv					-		
	24			\Box	_		_					-	74		<u> </u>			_						<u> </u>	124			-			-				
	25												75												125										
	26												76												126										
	27	<u>_</u>	ļ		4				<u> </u>			- 1	77	.1	<u> </u>									_	127	_				_				_	
_	28 29	ļ	<u> </u>									-	78 79		ļ			\vdash		_	_		\dashv	-	128	-	4							_	
_ -,	30	<u> </u>	_	\vdash	-		_		<u>_</u>	-	-	}	70	_		_						-	\vdash	-	129 130	-	_		-			_		-	
-	31	-					-	-	7			}	8		├			-	-	Н	-		\vdash	-	131	$\vdash +$	-						-	-	
	32	-	-		-		<u> </u>		1-		-1	ŀ	82					_	-				\forall		132	\vdash	-							-	
	33	_										Ī	83		厂									_	133		-	_		_					
	34												84	_											134										_
	35		·										85		L										135										
-	36	_	_	\sqcup				_	_	_		-	86		-							_	Ш	-	136		_	_			_		_		
_	37 38	-	<u> </u>						-	-	\square	-	87	ــــــــــــــــــــــــــــــــــــــ	 								$\vdash \vdash$	<u> </u>	137			_	\vdash	_			_	_	
<u></u>	39	-	-				-	<u> </u>	-	\vdash	\vdash	- }	88	_	\vdash	_	\vdash	-	<u> </u>	_		<u> </u>	\dashv		138 139		_				<u> </u>		\vdash		
-	40	\vdash	-		\dashv	-	-		-	 	\vdash	ŀ	90		\vdash	\vdash			-	-	-	-	\dashv	-	140		-			-			\vdash		
-	41	-	-		\dashv		H		\vdash	-	\vdash	}	91		-	-		-	-			<u> </u>	H		141		_			-		-	\dashv		г—-
H	42	-	-	\vdash		\vdash				 	\vdash	ŀ	92		\vdash	7		-				-	\dashv	-	142										
	43	\vdash		$ \cdot $	\dashv			<u> </u>	\vdash		H		93		+			-	-	_			\forall		143						_				
	44								Γ			Ī	94	T					Γ						144									-	
	45												95												145										_
_	46			П					Ĺ				96				\square								146										·
<u></u>	47	_	-	\sqcup			<u> </u>	<u> </u>	_	L		-	97		 _	<u></u>		L							147		_								
-	48 49	<u> </u>	-	\vdash			-	-	<u> </u>	<u> </u>	\vdash	-	98		-		_		-			_	\vdash	-	148				_						ı—
-	50	├-	-	-	\dashv	-	-	 	-	\vdash	H	-	10		-	-		-	-		\dashv		\vdash	-	149			_	-						
_	100	<u> </u>					L		l	ı	لــــا	L	1.0	<u>-1</u>	L			1		L				L.	1.00				L	L	I	L	,		

If more than 150 claims or 10 actions staple additional sheet here

(LEFT INSIDE)



	506 511 517 524 531 533 815.06 815.36		
andote	Bls.49 Dsouch	8/9/00 1/2/01	DP.

INTERFERENCE SEARCHED												
Class	Sub.	Date	Exmr.									
340	53 9 506 82506 815.49 531 533 517	7/2/01										

JTSIDE)

(RIGHT OUTSIDE)



SERIAL NUMBER		FILING DATE	CLASS	GROUP ART UNIT	ATTORNEY DC	
09/384,16	5	08/27/99	342	2736	945.02008	32
APPLICANT APPLICANT	MENARD, HA	STINGS, MN; C	URTIS E. QU	JADY, BURNSVILLE	, MN.	
VERIFIED	PROVISIONA	DATA******* L APPLICATION L APPLICATION	NO. 60/109	*** 5,493 10/23/98 5,862 05/25/99		
371 (NAT' VERIFIED	L STAGE) D	ATA*******	*****	•		
FOREIGN A VERIFIED	PPLICATION	S*******				
						:
Foreign Priority claims 35 USC 119 (a-d) con Verified and Acknowl	ed Conditions met	lyes ond lyes one □Met aft	er Allowance C	O9/15/99 ** SMAI FATE OR SHEETS DUNTRY DRAWING MN 9	TOTAL CLAIMS	INDEPENDENT CLAIMS
SCHWEGMAN SS PO BOX 293 MINNEAPOLI	LUNDBERG W	oessner & Klu				
BI-DIRECTI	ONAL WIREI	ESS DETECTION	N SYSTEM			
FILING FEE RECEIVED \$445	No.	ority has been gi to charge/cred for th	it DEPOSIT A	CCOUNT 1.10	Fees 6 Fees (Filing) 7 Fees (Processing 8 Fees (Issue) er 	Ext. of time)



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.

