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(12) **United States Design Patent** (10) **Patent No.:** **US D867,083 S**
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(54) **SAW BLADE**

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(**) Term: **15 Years**

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Related U.S. Application Data

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(52) **U.S. Cl.**
USPC **D8/20**

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CPC B23D 61/00; B23D 61/12; B23D 61/121; B23D 61/122; B23D 61/123; B23D 61/125; B23D 61/128; B26B 1/04; B26B 1/044; B26B 1/046; B26B 5/00; B26B 5/001; Y10T 83/9319; Y10T 83/9346; Y10T 83/9348; Y10T 83/9353; Y10T 83/9358

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

81,413 A 8/1868 Sattler
82,289 A 9/1868 Burgess
293,576 A 2/1884 Haselton
(Continued)

FOREIGN PATENT DOCUMENTS

GB 2009670 6/1979
JP 10328930 12/1998
(Continued)

OTHER PUBLICATIONS

Bosch, Heavy Use Reciprocating Saw Blades, Available Dec. 23, 2009, Retrieved from the Internet <URL:http://www.boschtools.com/Products/Accessories/Pages/BoschProductCategory.aspx?catid=128>.

(Continued)

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(57) **CLAIM**

We claim the ornamental design for a saw blade, as shown and described.

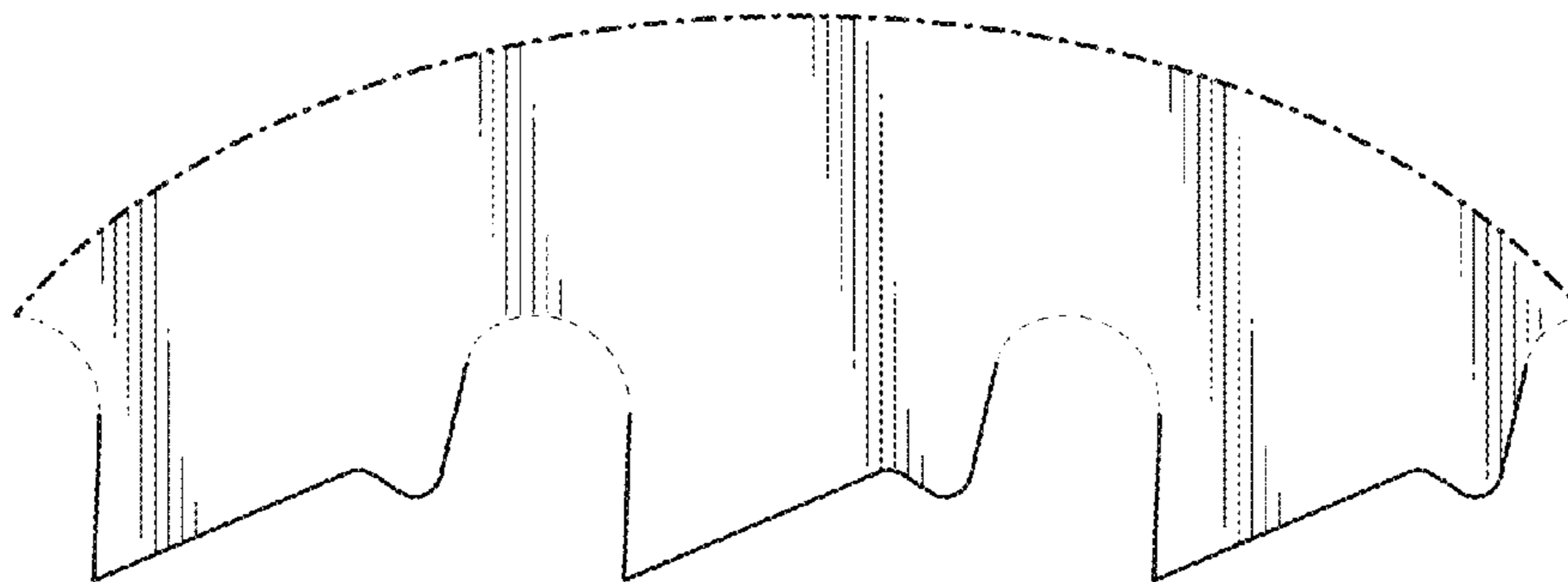
DESCRIPTION

FIG. 1 is a perspective view of a saw blade embodying the invention.

FIG. 2 is a side view of the saw blade of FIG. 1; and, FIG. 3 is an enlarged view of a portion of the saw blade of FIG. 1.

The evenly spaced broken lines are for the purpose of showing portions of the saw blade that form no part of the claimed design. The long and short broken lines that define the bounds of the claimed design form no part thereof.

1 Claim, 2 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

349,143 A	9/1886	Clemson	5,823,803 A	10/1998	Majors
566,865 A	9/1896	Morrish	5,848,473 A	12/1998	Brandenburg, Jr.
576,724 A	2/1897	Foster	5,855,157 A	1/1999	Okamura et al.
820,969 A	5/1906	Grelck	5,855,158 A	1/1999	Donofrio
1,390,400 A	9/1921	Threet	5,868,058 A	2/1999	Senegas
1,876,945 A	9/1932	Hutchings	5,884,547 A	3/1999	Carlsen et al.
2,573,573 A	10/1951	Jenkins	5,896,800 A	4/1999	Curtsinger et al.
2,646,094 A	7/1953	Russell	5,901,630 A	5/1999	Kataoka et al.
2,890,728 A	6/1959	Craven	5,918,525 A	7/1999	Schramm
2,916,066 A	12/1959	Morse	5,946,985 A	9/1999	Carlsen et al.
3,028,889 A	4/1962	McCarty	5,964,039 A	10/1999	Mizoguchi et al.
3,033,251 A	5/1962	Atkinson et al.	6,003,422 A	12/1999	Holston
3,111,970 A	11/1963	Priest et al.	6,065,370 A	5/2000	Curtsinger et al.
3,176,732 A	4/1965	Henderson	6,065,380 A	5/2000	Lundh
3,357,462 A	12/1967	Craven	6,119,571 A	9/2000	Hayden, Sr.
3,416,579 A *	12/1968	Cowley	6,125,544 A	10/2000	Eriksson et al.
		B23D 61/121	6,158,324 A	12/2000	Kullmann et al.
		407/120	6,167,792 B1	1/2001	Korb et al.
3,477,479 A	11/1969	Doty	D438,549 S	3/2001	Tsujimoto
3,630,699 A	12/1971	Catlin	6,220,139 B1	4/2001	Kobayashi et al.
3,651,841 A	3/1972	Ohlsson	6,220,140 B1	4/2001	Hellebergh
3,680,610 A	8/1972	Lindgren	6,244,152 B1	6/2001	Di Nicolantonio
4,119,004 A	10/1978	Ludwig	6,257,226 B1	7/2001	Hayden, Sr.
4,137,808 A	2/1979	Mattes	6,269,722 B1	8/2001	Hellbergh
4,179,967 A	12/1979	Clark	6,276,248 B1	8/2001	Cranna
4,232,578 A	11/1980	Stellinger et al.	6,276,249 B1	8/2001	Handschuh et al.
4,236,432 A	12/1980	Kawakami et al.	6,357,122 B2	3/2002	Bachta
4,292,871 A	10/1981	Neumeyer et al.	6,401,585 B1	6/2002	Morgan
4,311,075 A	1/1982	Sundström	6,427,573 B1	8/2002	Carlsen et al.
4,339,977 A	7/1982	Miller	6,439,094 B1	8/2002	Yoneda et al.
4,345,499 A	8/1982	Ross	6,497,046 B1	12/2002	Bardeen et al.
4,423,553 A	1/1984	Miyawaki	6,520,722 B2	2/2003	Hopper et al.
4,423,653 A	1/1984	Howard	6,532,852 B1	3/2003	Tsujimoto et al.
4,432,264 A	2/1984	Scott	6,543,326 B2	4/2003	Bishop
4,461,198 A	7/1984	Grassmann	6,588,992 B2	7/2003	Rudolph
4,492,141 A	1/1985	Takeuchi	6,598,509 B2	7/2003	Cook et al.
4,515,055 A	5/1985	Scott	6,601,495 B2	8/2003	Cranna
4,557,172 A	12/1985	Yoneda	6,625,891 B2	9/2003	Stielper
4,587,876 A	5/1986	Erhardt	D482,945 S	12/2003	Grolimund
4,640,172 A	2/1987	Kullmann et al.	6,681,674 B2	1/2004	Hakansson et al.
4,688,458 A	8/1987	Krilov	6,782,781 B2	8/2004	Rack
4,727,788 A	3/1988	Yoshida et al.	6,834,573 B1	12/2004	Nakahara
4,784,033 A	11/1988	Hayden et al.	6,931,975 B2	8/2005	Haughton et al.
4,784,034 A	11/1988	Stones et al.	6,945,850 B2	9/2005	Perrey
4,802,396 A	2/1989	Kuklinski	7,013,784 B2	3/2006	Lowder et al.
4,813,324 A	3/1989	Yoshida et al.	7,017,465 B2	3/2006	Dion et al.
4,827,822 A	5/1989	Yoshida et al.	7,036,417 B2	5/2006	Alton
4,958,546 A	9/1990	Yoshida et al.	D527,233 S	8/2006	Burke, III
4,989,489 A	2/1991	Pinney	7,117,863 B1	10/2006	Dassoulas
5,018,421 A	5/1991	Lucki et al.	7,121,180 B2	10/2006	Shimofurutani
5,062,338 A	11/1991	Baker	7,127,979 B2	10/2006	Kocher et al.
5,085,113 A	2/1992	Pinney	7,131,365 B2	11/2006	Hall et al.
5,094,135 A	3/1992	Nakahara et al.	D534,401 S	1/2007	Duffin et al.
5,095,623 A	3/1992	Williams	7,174,823 B2	2/2007	Cranna
5,119,708 A	6/1992	Musgrove	7,178,441 B2	2/2007	Hellbergh
5,231,909 A	8/1993	Hsu	7,225,714 B2	6/2007	Rompel et al.
5,249,485 A	10/1993	Hayden, Sr.	7,225,715 B2	6/2007	Lowder et al.
5,295,426 A	3/1994	Planchon	7,257,900 B2	8/2007	Wheeler et al.
5,331,876 A	7/1994	Hayden, Sr.	D551,923 S	10/2007	Ammann
D352,218 S	11/1994	Nygards	D554,452 S	11/2007	Ammann
5,361,665 A	11/1994	Sonefors	D555,444 S	11/2007	Ammann
5,410,935 A	5/1995	Holston et al.	7,334,511 B2	2/2008	Hesselberg et al.
5,417,777 A	5/1995	Henderer	D578,847 S	10/2008	Mashburn
5,423,845 A	6/1995	McDaniel	D608,611 S	1/2010	Lowder
5,425,296 A	6/1995	Kullmann et al.	7,661,347 B2	2/2010	Nagano et al.
5,477,763 A	12/1995	Kullman	7,806,033 B2	10/2010	Kocher et al.
5,501,129 A	3/1996	Armstrong et al.	D642,028 S	7/2011	Fosberg, Jr. et al.
5,517,889 A	5/1996	Logan	8,113,100 B1	2/2012	Cranna et al.
5,555,788 A	9/1996	Gakhar et al.	D686,470 S	7/2013	Ji
5,581,848 A	12/1996	Egerer	8,689,667 B2	4/2014	Butzen et al.
5,603,252 A	2/1997	Hayden, Sr.	8,776,659 B2	7/2014	Butzen et al.
5,606,900 A	3/1997	Stoddard	D725,450 S	3/2015	Hampton et al.
5,697,280 A	12/1997	Armstrong et al.	9,079,259 B2	7/2015	Grolimund
5,758,561 A	6/1998	Curtsinger et al.	9,757,807 B2	9/2017	Hampton et al.
5,803,677 A	9/1998	Brutscher et al.	2001/0004860 A1	6/2001	Kullmann et al.
5,803,678 A	9/1998	Korb et al.	2001/0006017 A1	7/2001	Osada et al.
			2002/0029679 A1	3/2002	Cranna
			2002/0078813 A1	6/2002	Hoffman
			2002/0184981 A1	12/2002	Tsujimoto

(56)

References Cited

U.S. PATENT DOCUMENTS

2002/0184988	A1	12/2002	Rohman et al.	
2003/0010179	A1	1/2003	McLuen	
2003/0051593	A1	3/2003	Kocher et al.	
2004/0016125	A1	1/2004	Asada et al.	
2004/0035282	A1	2/2004	Tsujimoto	
2004/0050234	A1	3/2004	Fluhrer	
2004/0065183	A1	4/2004	Asada	
2004/0182218	A1	9/2004	Chao	
2004/0255740	A1	12/2004	Troyer	
2005/0211023	A1	9/2005	Kalo	
2005/0211046	A1	9/2005	Thomas et al.	
2005/0229407	A1	10/2005	Kanzawa	
2005/0262702	A1	12/2005	Hawthorn	
2006/0016315	A1	1/2006	Zorich et al.	
2006/0065098	A1	3/2006	Cranna	
2006/0130631	A1	6/2006	Hesselberg et al.	
2006/0160341	A1	6/2006	Burry et al.	
2006/0162826	A1	7/2006	Beguinet et al.	
2006/0207398	A1	9/2006	Nicolson et al.	
2007/0056427	A1	3/2007	Males	
2007/0180973	A1*	8/2007	Lowder	B23D 61/021 83/848
2007/0199416	A1	8/2007	Cook et al.	
2007/0214922	A1	9/2007	Cook et al.	
2007/0221033	A1	9/2007	Taffertshofer	
2007/0251372	A1	11/2007	Petts et al.	
2008/0121079	A1	5/2008	Hashimoto et al.	
2008/0121084	A1	5/2008	Vogel et al.	
2008/0163735	A1	7/2008	Lundin et al.	
2008/0172890	A1	7/2008	Shetterly	
2008/0201964	A1	8/2008	Camargo et al.	
2008/0264231	A1	10/2008	Coe et al.	
2008/0307936	A1	12/2008	Elliston et al.	
2009/0013847	A1	1/2009	Lauzet	
2009/0049973	A1	2/2009	Huffer et al.	
2009/0126205	A1	5/2009	Kullman et al.	
2009/0126712	A1	5/2009	Kullmann et al.	

2009/0144992	A1	6/2009	Bucks	
2009/0145280	A1	6/2009	Bucks et al.	
2009/0293698	A1	12/2009	Tran et al.	
2012/0090443	A1	4/2012	Butzen et al.	
2014/0283667	A1	9/2014	Butzen et al.	
2017/0120356	A1	5/2017	George et al.	
2017/0326661	A1	11/2017	Butzen et al.	
2019/0054553	A1*	2/2019	Hunter	B23D 61/121

FOREIGN PATENT DOCUMENTS

JP	11019822	1/1999
JP	2000135625	5/2000
JP	2000343325	12/2000
JP	2001009634	1/2001
JP	2001259927	9/2001
JP	2003048121	2/2003
JP	2003334721	11/2003
JP	2003340642	12/2003
JP	2003340643	12/2003
JP	2003340644	12/2003
JP	2005169546	6/2005
WO	WO 0206020	1/2002
WO	WO 2011140533	11/2011

OTHER PUBLICATIONS

Bosch, Progressor for All-Purpose, Available Dec. 23, 2009, Retrieved from the Internet <URL: <http://www.boschtools.com/Products/Accessories/Pages/BoschAccessoryDetail.aspx?pid=285#specs>>.
 Bosch, Progressor for Wood, Available Dec. 23, 2009, Retrieved from the Internet <URL: <http://www.boschtools.com/Products/Accessories/Pages/BoschAccessoryDetail.aspx?pid=287#specs>>.
 Bosch, Heavy for Wood with Nails, Available Dec. 23, 2009, Retrieved from the Internet <URL: <http://www.boschtools.com/Products/Accessories/Pages/BoschAccessoryDetail.aspx?pid=284#specs>>.

* cited by examiner

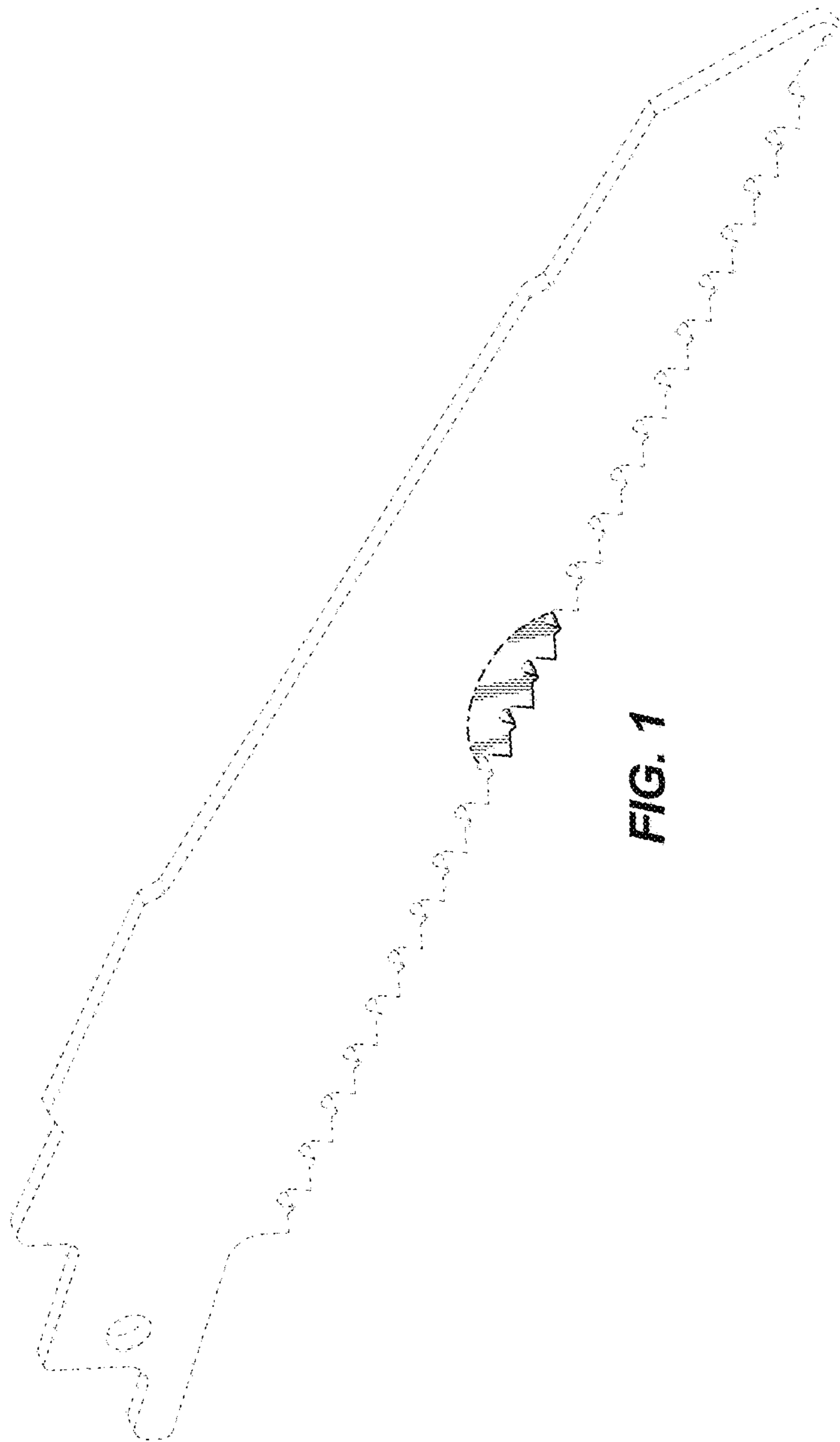


FIG. 1

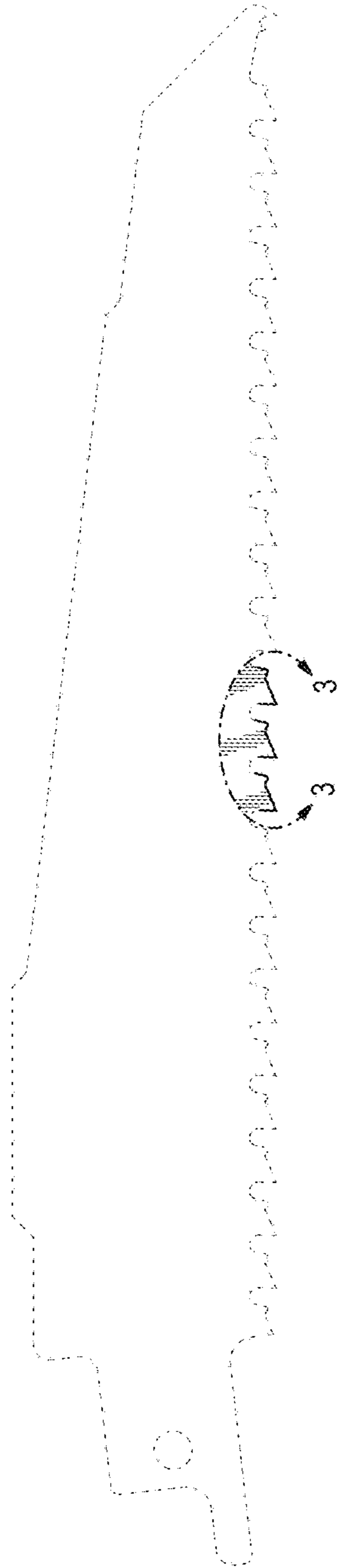


FIG. 2

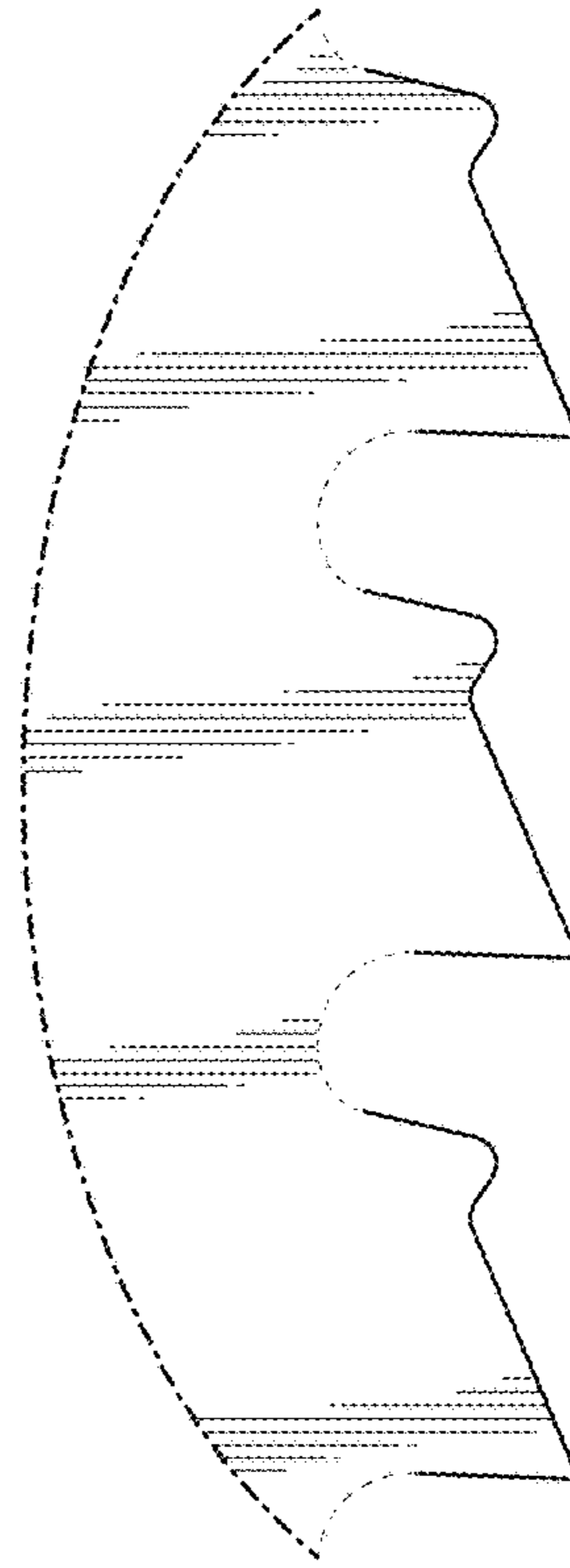


FIG. 3