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(12) **United States Design Patent**
Lee

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(54) **SUBPERIOSTEAL SURGICAL INSTRUMENT**

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

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Related U.S. Application Data

(63) Continuation-in-part of application No. 15/644,387, filed on Jul. 7, 2017, now Pat. No. 10,327,870, and a continuation of application No. 15/493,961, filed on Apr. 21, 2017, now Pat. No. 10,555,794, which is a continuation of application No. PCT/US2017/025478, filed on Mar. 31, 2017.

(51) **LOC (13) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/152**

(58) **Field of Classification Search**
USPC D8/300; D24/133, 140, 146, 147, 171, D24/152, 176, 145, 156, 158
CPC A61C 8/00
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,608,275	A		2/1922	Grier et al.
1,875,680	A		9/1932	Van Horn
4,315,745	A		2/1982	Murata
4,340,060	A		7/1982	Berke et al.
4,820,306	A		4/1989	Gorman et al.
5,085,638	A		2/1992	Farbstein et al.
5,295,827	A		3/1994	Fundingsland et al.
5,372,503	A		12/1994	Elia
5,695,338	A		12/1997	Robert
6,086,592	A		7/2000	Rosenberg et al.
D430,298	S	*	8/2000	Holms D24/152
6,102,932	A		8/2000	Kurz
D446,858	S	*	8/2001	Holms D24/152
6,273,720	B1		8/2001	Spalten
6,309,219	B1		10/2001	Robert
6,554,803	B1		4/2003	Ashman
6,575,749	B1		6/2003	Greenwald

(Continued)

FOREIGN PATENT DOCUMENTS

WO	WO2014033898 A1	3/2014
WO	WO2015037838 A1	3/2015

OTHER PUBLICATIONS

Michael S. Block, DMD et al.; Horizontal Ridge Augmentation Using Human Mineralized Particulate Bone: Preliminary Results; American Association of Oral Maxillofacial Surgeons, 2004; J Oral Maxillofac Surg 62:67-72, 2004, Suppl 2.

(Continued)

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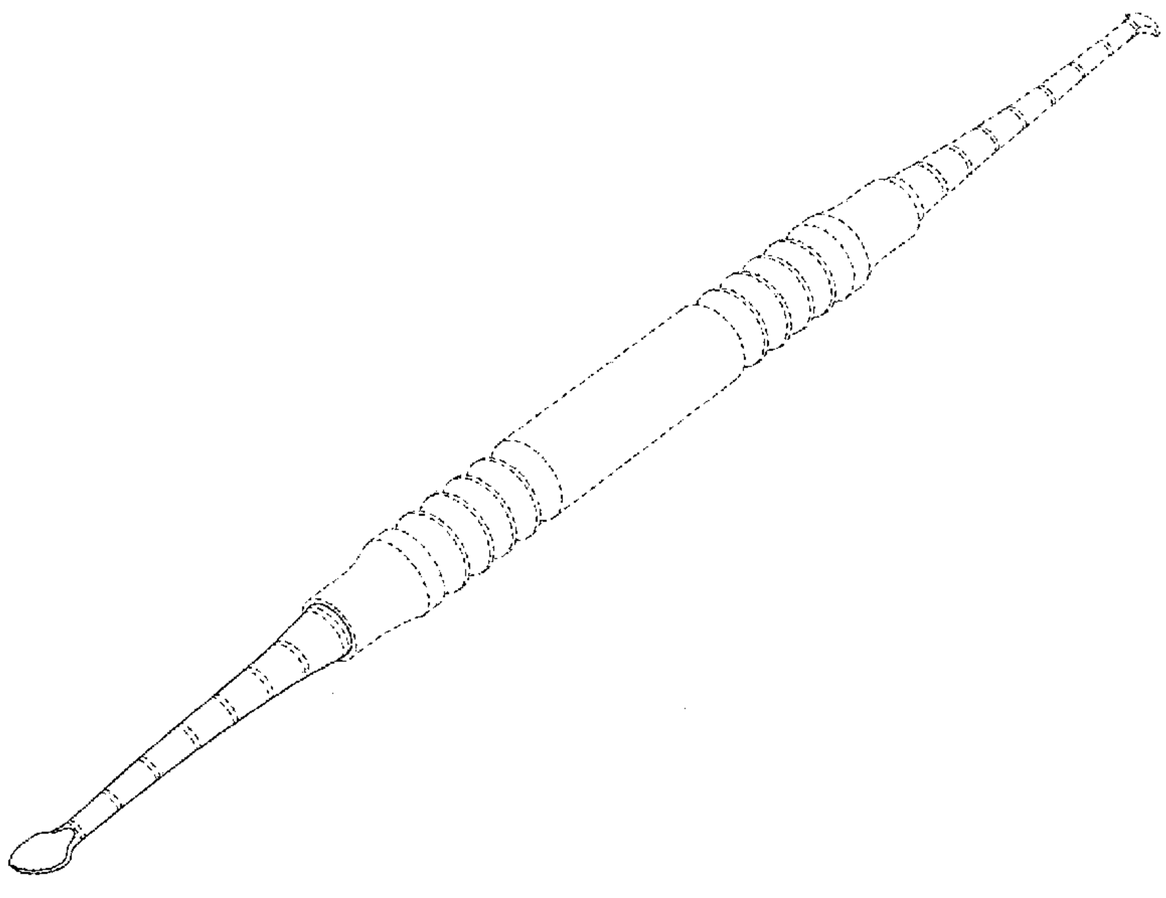
(57) **CLAIM**

The ornamental design for a subperiosteal surgical instrument, as shown and described.

DESCRIPTION

FIG. **1** is a perspective view of a subperiosteal surgical instrument according to the invention;
FIG. **2** is a front elevation view thereof;
FIG. **3** is a rear elevation view thereof;
FIG. **4** is a left side elevation view thereof;
FIG. **5** is a right side elevation view thereof;
FIG. **6** is a top plan view thereof; and,
FIG. **7** is a bottom plan view thereof.
The broken line portions of FIGS. **1-7** show unclaimed subject matter only and form no part of the claimed design.

1 Claim, 4 Drawing Sheets



(56) **References Cited**

U.S. PATENT DOCUMENTS

6,926,699	B2	8/2005	Stone	
6,994,548	B2	2/2006	Perret, Jr.	
6,997,709	B2	2/2006	Kangasniemi et al.	
D522,141	S *	5/2006	Chung	D24/152
7,357,789	B2	4/2008	Bills	
7,662,188	B2	2/2010	Yamada	
D619,253	S *	7/2010	Way	D24/147
8,308,727	B2	11/2012	Hernandez et al.	
8,419,737	B2	4/2013	Yamada	
8,968,323	B2	3/2015	McKay	
9,242,779	B1	1/2016	Schildcrout	
D776,276	S *	1/2017	Witt	D24/146
D779,064	S *	2/2017	Sanchez	D24/154
D809,138	S *	1/2018	Khan	D24/133
10,226,271	B2 *	3/2019	Kimball	A61B 17/320068
10,327,864	B2 *	6/2019	Hyun	A61C 19/04
D855,180	S *	7/2019	Haefliger	D24/133
10,813,726	B2 *	10/2020	Wen	A61C 3/00
D933,212	S *	10/2021	Sweitzer	D24/133
D933,215	S *	10/2021	Gloess	D24/133
D933,216	S *	10/2021	Gloess	D24/133
2002/0151769	A1	10/2002	Kim	
2003/0032925	A1	2/2003	Stone	
2004/0068234	A1	4/2004	Martin et al.	
2004/0111066	A1	6/2004	Prais et al.	
2007/0031788	A1	2/2007	Chao	
2008/0161846	A1	7/2008	Yamada	
2011/0183289	A1	7/2011	Lee	
2011/0230921	A1	9/2011	Yamada	
2012/0330368	A1	12/2012	Dunn	
2014/0234798	A1	8/2014	Lim	
2015/0054195	A1	2/2015	Greyf	
2019/0216568	A1 *	7/2019	Zadeh	A61B 17/0469

OTHER PUBLICATIONS

Oscar Hasson, DDS et al.; "Augmentation of deficient lateral alveolar ridge using the subperiosteal tunneling dissection approach"; Kaplan Medical Center; Oral Surg Oral Med Oral Pathol Oral Radiol Endod 2007, vol. 103, No. 3, e14-e19.

Efraim Kfir, DDS, et al.; "Minimally Invasive Guided Bone Regeneration"; Journal of Oral Implantology, vol. XXXIII, No. Four, 205-210, 2007.

Marc I. Nevins, DMD, MMSc et al.; "Minimally Invasive Alveolar Ridge Augmentation Procedure (Tunneling Technique) Using rhPDGF-BB in Combination with Three Matrices A case Series", The International journal of Periodontics & Restorative Dentistry, vol. 29, No. 4, 370-385, 2009, Quintessence Publishing Co. Inc.

Feng Xuan, MD, et al.; "Vertical Ridge Augmentation Using Xenogenous Bone Blocks: A Comparison Between the Flap and Tunneling Procedures"; 2014 American Association of Oral and Maxillofacial Surgeons; J Oral Maxillofac Surg 72:1660-1670, 2014.

John N. Kent, DDS, et al.; "Alveolar Ridge Augmentation Using Nonresorbable Hydroxylapatite with or without Autogenous Cancellous Bone"; J Oral Maxillofac Surg, 41:629-642; 1983.

Carlo Mazzocco, MD, DDS, et al.; "The Tunnel Technique: A Different Approach to Block Grafting Procedures"; The International Journal of Periodontics & Restorative Dentistry; vol. 28, pp. 44-53, No. 1, 2008; Quintessence Publishing Co, Inc., © 2008.

Ernesto A. Lee, DMD, et al.; "Lingualized Flapless Implant Placement into Fresh Extraction Sockets Preserves Buccal Aveolar Bone: A Cone Beam Computed Tomography Study"; The International Journal of Periodontics & Restorative Dentistry; vol. 34, pp. 60-68, No. 1, 2014; Quintessence Publishing Co, Inc. © 2014.

* cited by examiner

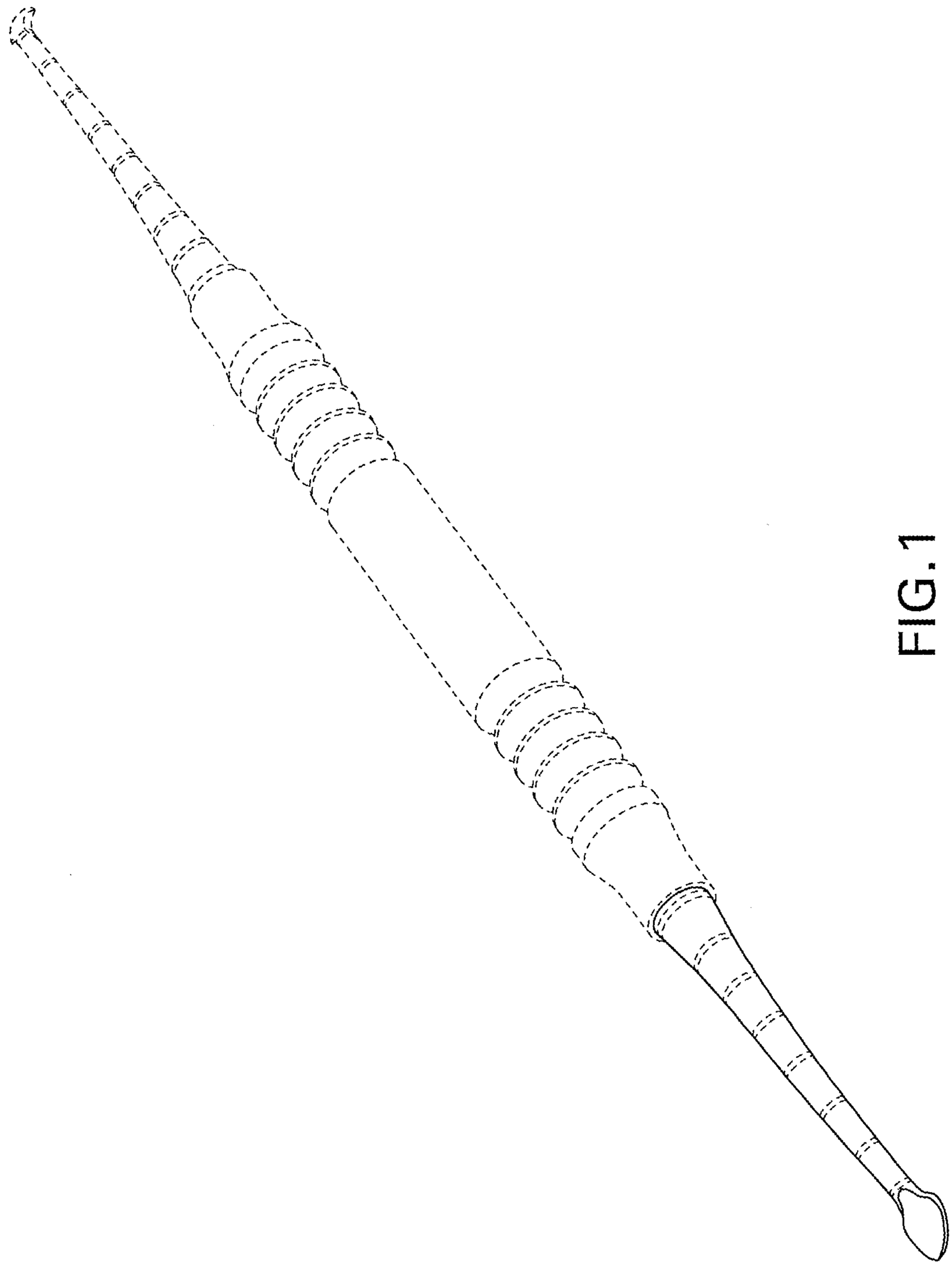


FIG.1

FIG.2

FIG.3

FIG.5

FIG.4

FIG.6

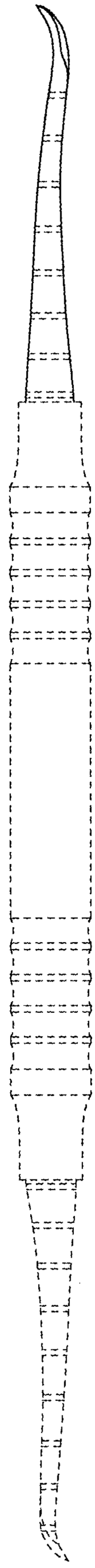


FIG.7