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(12) **United States Design Patent**
Schembre et al.

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(54) **BIOPSY NEEDLE TIP**
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5,036,860 A * 8/1991 Leigh et al. 600/567
5,106,364 A 4/1992 Hayafuji et al.
5,172,702 A * 12/1992 Leigh et al. 600/567
(Continued)

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FOREIGN PATENT DOCUMENTS
CN 2449657 Y 9/2001
OTHER PUBLICATIONS

(**) Term: **14 Years**

Chhieng, David C. et al., "Fine-Needle Aspiration Cytology of Hodgkin Disease," *Cancer Cytopathology*, 2001, American Cancer Society, pp. 52-59.

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(Continued)

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Related U.S. Application Data

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(51) **LOC (9) Cl.** **24-02**

(52) **U.S. Cl.** **D24/130**

(58) **Field of Classification Search** D24/130,
D24/146-147; 604/164-165; 600/562, 564,
600/566-567

(57) **CLAIM**

We claim the ornamental design for a biopsy needle tip, as
shown and described.

See application file for complete search history.

DESCRIPTION

(56) **References Cited**

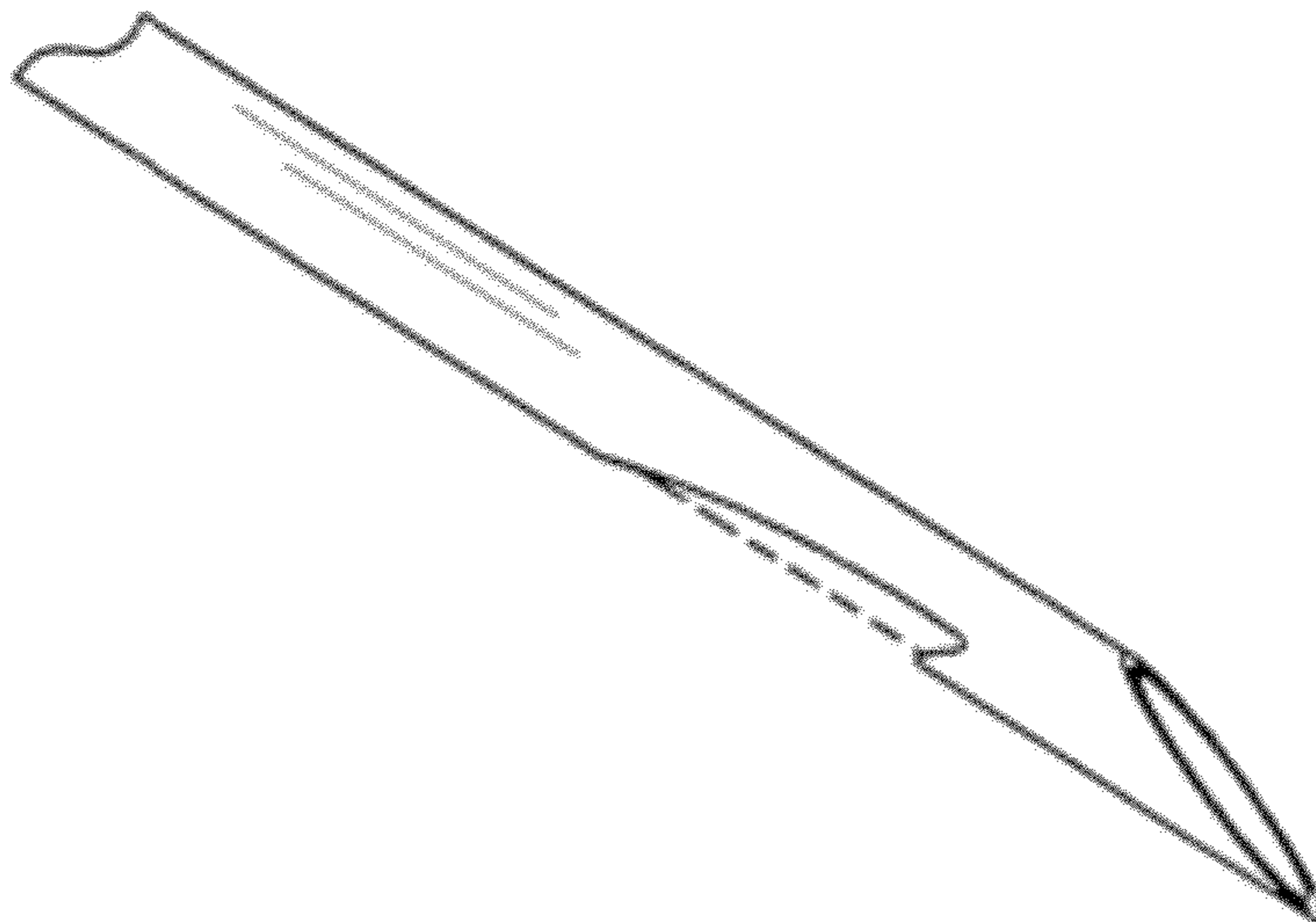
U.S. PATENT DOCUMENTS

737,293 A * 8/1903 Summerfeldt 606/159
4,055,167 A 10/1977 Bernstein
4,627,444 A 12/1986 Brooker
4,702,260 A * 10/1987 Wang 600/566
4,791,937 A 12/1988 Wang
D300,246 S * 3/1989 Brown et al. D24/129
D302,589 S * 8/1989 McMenamy et al. D24/112
D303,290 S * 9/1989 McMenamy et al. D24/147
4,900,300 A 2/1990 Lee
4,903,709 A 2/1990 Skinner
4,989,614 A 2/1991 Dejter, Jr. et al.
4,991,592 A 2/1991 Christ

FIG. 1 is a lower side perspective view of a smooth-surfaced
embodiment of a biopsy needle tip of the present invention;
FIG. 2 is a top plan view thereof; and,
FIG. 3 is a right side elevation view thereof, a left side eleva-
tion view being a mirror image of FIG. 3.

The ornamental design which is claimed is shown in solid
lines in the drawings. The broken line showing is for the
purpose of illustrating environmental structure and forms no
part of the claimed design. The drawings are not to scale;
specifically, FIG. 1 and FIG. 3 each illustrate a portion of the
biopsy needle tip shown in FIG. 2. The views are shown
broken away to indicate that no particular length of needle is
claimed.

1 Claim, 1 Drawing Sheet



U.S. PATENT DOCUMENTS

5,309,910	A *	5/1994	Edwards et al.	600/381
5,320,110	A *	6/1994	Wang	600/566
5,449,001	A *	9/1995	Terwilliger	600/567
5,458,112	A	10/1995	Weaver	
5,470,308	A *	11/1995	Edwards et al.	604/22
5,718,237	A *	2/1998	Haaga	600/564
5,807,304	A	9/1998	Cockburn	
5,817,033	A *	10/1998	DeSantis et al.	600/562
5,865,765	A	2/1999	Mohajer	
5,971,939	A	10/1999	DeSantis et al.	
D448,047	S *	9/2001	Lewis, Jr.	D19/47
6,296,624	B1 *	10/2001	Gerber et al.	604/164.11
6,572,563	B2 *	6/2003	Ouchi	600/564
6,585,664	B2 *	7/2003	Burdorff et al.	600/564
6,656,132	B1 *	12/2003	Ouchi	600/564
6,709,408	B2	3/2004	Fisher	
D538,933	S *	3/2007	Andrade	D24/146
7,390,306	B2 *	6/2008	Mark	600/566
7,819,819	B2 *	10/2010	Quick et al.	600/564
7,914,463	B2 *	3/2011	Tarter et al.	600/567
7,942,830	B2 *	5/2011	Solsberg et al.	600/564
7,988,642	B2 *	8/2011	Hardin et al.	600/566
8,016,772	B2 *	9/2011	Heske et al.	600/566
8,052,616	B2 *	11/2011	Andrisek et al.	600/567
2002/0120212	A1 *	8/2002	Ritchart et al.	600/567
2005/0177117	A1 *	8/2005	Crocker et al.	604/272
2006/0064031	A1 *	3/2006	Miller	600/567
2007/0005084	A1 *	1/2007	Clague et al.	606/159
2007/0016101	A1 *	1/2007	Feldman et al.	600/567
2007/0149894	A1 *	6/2007	Heske et al.	600/566
2007/0161925	A1 *	7/2007	Quick et al.	600/564
2008/0161720	A1 *	7/2008	Nicoson et al.	600/567
2008/0200833	A1 *	8/2008	Hardin et al.	600/566
2008/0319341	A1 *	12/2008	Taylor et al.	600/567
2009/0118641	A1	5/2009	Van Dam et al.	
2010/0160821	A1 *	6/2010	Parihar et al.	600/567
2010/0234760	A1 *	9/2010	Almazan	600/566
2011/0190661	A1 *	8/2011	Wegener et al.	600/567

OTHER PUBLICATIONS

Davenport, R.D., "Rapid on-site evaluation of transbronchial aspirates," *Chest*, 1990, vol. 98, pp. 59-61.

Diette, Gregory B., "Utility of On-Site Cytopathology Assessment for Bronchoscopic Evaluation of Lung Masses and Adenopathy," *Chest*, 2000, vol. 117, pp. 1186-1190.

Gittlen, S.D., "A new versatile transbronchial cytology needle for the staging and diagnosis of bronchogenic carcinoma," *Chest*, 1988, vol. 94, pp. 561-565.

Kaffes, Arthur J., "Fine Needle Aspiration At Endoscopic Ultrasound With a Novel Olympus Side-Port Needle: A Pilot Experience," *Gastrointestinal Endoscopy*, Abstract T1492, 2010, vol. 71, No. 5, p. 291.

Mayall, Frederick et al., "Improved FNA cytology results with a near patient diagnosis service for non-breast lesions," *J. Clin. Pathol.*, 1998, vol. 51, pp. 541-544.

Mazzone MD, Peter et al., "Bronchoscopy and Needle Biopsy Techniques for Diagnosis and Staging of Lung Cancer," *Clinics in Chest Medicine*, vol. 23, No. 1, Mar. 2002, pp. 137-158.

McLoud MD, Theresa C., "Should Cutting Needles Replace Needle Aspiration of Lung Lesions?," *Radiology*, Jun. 1998, pp. 569-570.

Olympus KeyMed, *Diagnosis (Needle Aspiration)*, keymed.co.uk/index.cfm/page/.../615, 2010, 2 pages.

Olympus EndoTherpay, SmoothShot, Expanded Line of Transbronchial Aspiration Needles Provides Comprehensive Scope Compatibility, Exceptional Puncture Performance, and Improved Operability, date unknown, 3 pages.

Shure, D., "Transbronchial biopsy and needle aspiration," *Chest*, 1989, vol. 95, pp. 1130-1138.

Trumm, C.G. et al., "Biopsy," Ch. 9, date unknown, pp. 94-95.

Wang, K.P., "Flexible transbronchial needle aspiration biopsy for histologic specimens," *Chest*, 1985, vol. 88, pp. 860-863.

Wang, Ko Pen, "Biopsy Sampling Technique," *Chest*, 1989, vol. 95, pp. 484-485.

Wang, K.P. et al., "Needle brush in the diagnosis of lung mass or nodule through flexible bronchoscopy," *Chest*, 1991, vol. 100, pp. 1148-1150.

Weisbrod, Gordon L. et al., "Preliminary Experience with a Dual Cutting Edge Needle in Thoracic Percutaneous Fine-Needle Aspiration Biopsy," *Radiology*, Apr. 1987, pp. 75-78.

Yang, Grace, C.H. et al., "Ultrasound-Guided Fine-Needle Aspiration of the Thyroid Assessed by Ultrafast Papanicolaou Stain: Data from 1135 Biopsies with a Two to Six Year Follow-Up," *Thyroid*, vol. 11, No. 6, 2001, pp. 581-589.

* cited by examiner

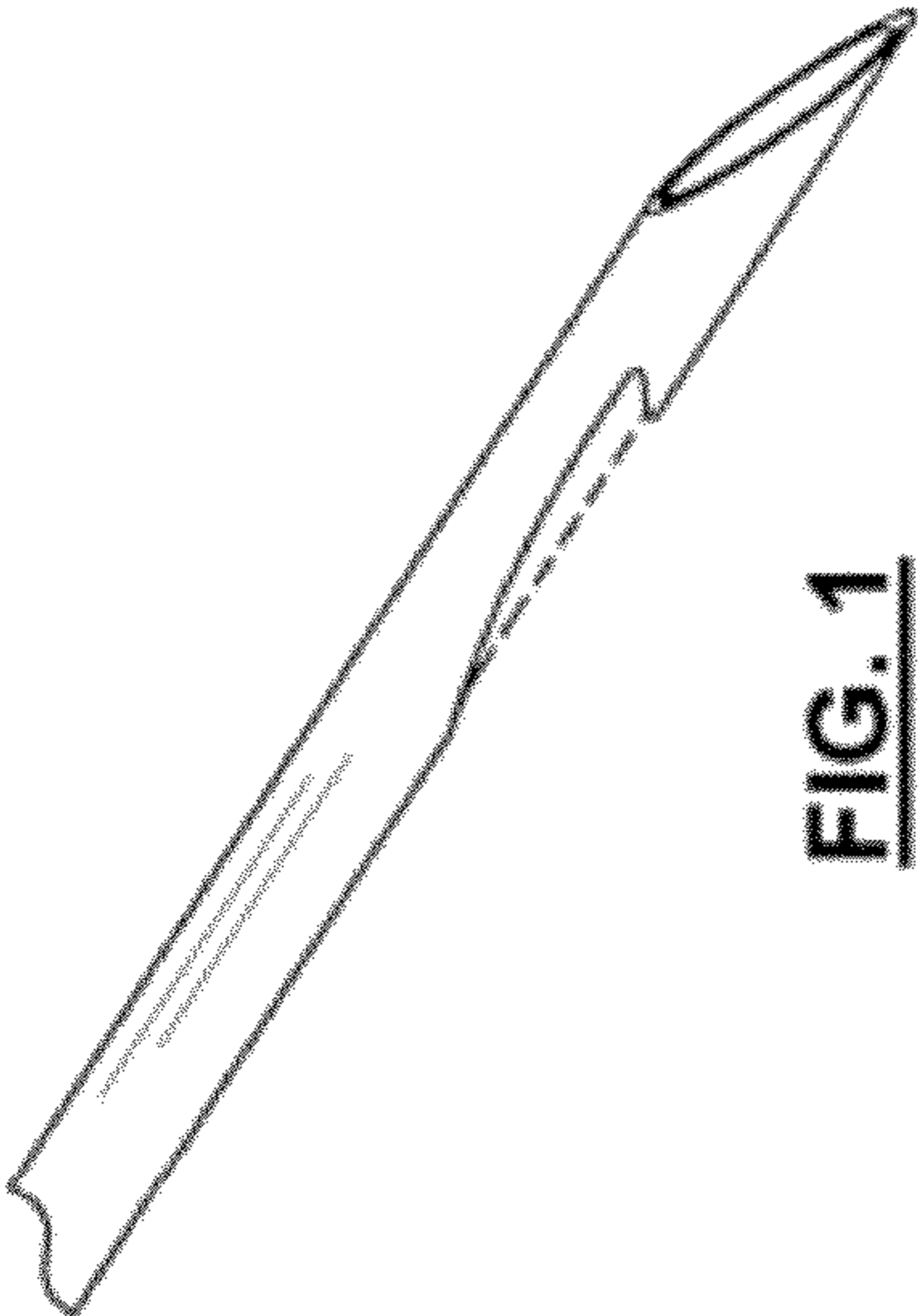


FIG. 1

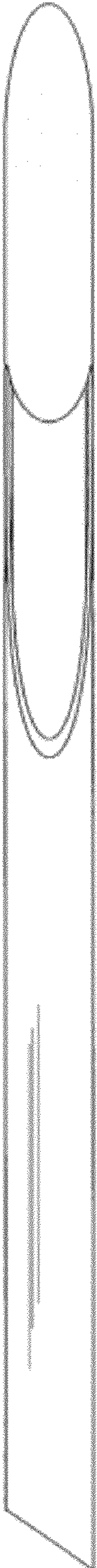


FIG. 2



FIG. 3