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

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(54) **BIOPSY NEEDLE TIP**

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

(21) Appl. No.: **29/442,054**

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D300,060 S * 2/1989 Molgaard-Nielsen D24/112
D300,246 S 3/1989 Brown et al.
D302,589 S 8/1989 McMenemy et al.
D303,290 S 9/1989 McMenemy et al.
4,900,300 A 2/1990 Lee
4,903,709 A 2/1990 Skinner
4,989,614 A 2/1991 Dejter, Jr. et al.

(Continued)

FOREIGN PATENT DOCUMENTS

CN 2449657 Y 9/2001
WO WO 03/079907 A1 10/2003

OTHER PUBLICATIONS

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

(Continued)

Related U.S. Application Data

(60) Division of application No. 29/388,901, filed on Apr. 4, 2011, now Pat. No. Des. 657,461, which is a continuation of application No. 13/079,226, filed on Apr. 4, 2011.

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

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

(58) **Field of Classification Search**
USPC D24/127-131, 112-114, 133, 186,
D24/146, 147; 606/181, 185; 604/264, 272,
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See application file for complete search history.

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(57) **CLAIM**

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

DESCRIPTION

FIG. 1 is a top plan view of an embodiment of a biopsy needle tip of the present invention including a dimpled surface; and, FIG. 2 is a right side elevation view thereof, a left side elevation view being a mirror image thereof.

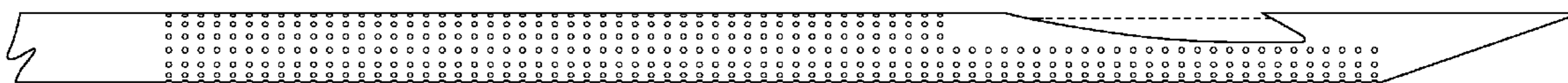
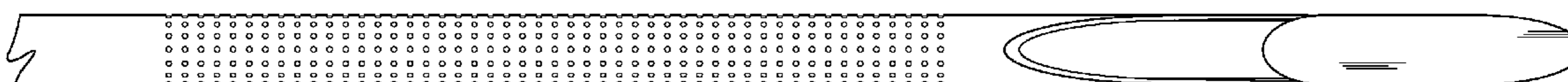
The ornamental design which is claimed is shown in solid lines in the drawings. Any broken or phantom lines in the drawings are for the purpose of illustrating environmental structure and form no part of the claimed design. The views are shown as broken away to indicate that no particular needle length is claimed.

1 Claim, 1 Drawing Sheet

(56) **References Cited**

U.S. PATENT DOCUMENTS

737,293 A 8/1903 Summerfeldt
3,277,893 A * 10/1966 Clark 604/130
3,308,822 A * 3/1967 De Luca D24/112
4,055,167 A 10/1977 Bernstein
D247,975 S * 5/1978 Luther D24/112
4,627,444 A 12/1986 Brooker
4,651,753 A * 3/1987 Lifton D24/147
4,702,260 A 10/1987 Wang
4,791,937 A 12/1988 Wang



(56)

References Cited

U.S. PATENT DOCUMENTS

4,991,592 A 2/1991 Christ
 5,036,860 A 8/1991 Leigh et al.
 5,106,364 A 4/1992 Hayafuji et al.
 5,172,702 A 12/1992 Leigh et al.
 5,199,441 A 4/1993 Hogle
 5,309,910 A 5/1994 Edwards et al.
 5,320,110 A 6/1994 Wang
 5,449,001 A 9/1995 Terwilliger
 5,458,112 A 10/1995 Weaver
 5,470,308 A 11/1995 Edwards et al.
 5,718,237 A 2/1998 Haaga
 5,807,304 A 9/1998 Cockburn
 5,817,033 A 10/1998 DeSantis et al.
 5,865,765 A 2/1999 Mohajer
 5,968,022 A * 10/1999 Saito 604/272
 5,971,939 A 10/1999 DeSantis et al.
 D448,047 S 9/2001 Lewis, Jr.
 6,296,624 B1 10/2001 Gerber et al.
 6,346,095 B1 * 2/2002 Gross et al. 604/272
 6,572,563 B2 6/2003 Ouchi
 6,585,664 B2 7/2003 Burdorff
 6,656,132 B1 12/2003 Ouchi
 6,709,408 B2 3/2004 Fisher
 6,979,317 B2 * 12/2005 Galt et al. 604/158
 D538,933 S 3/2007 Andrade
 7,217,263 B2 * 5/2007 Humayun et al. 604/272
 7,258,693 B2 * 8/2007 Freeman et al. 606/181
 7,390,306 B2 6/2008 Mark
 7,651,482 B2 * 1/2010 Harris 604/272
 7,819,819 B2 10/2010 Quick et al.
 7,914,463 B2 3/2011 Tarter et al.
 7,942,830 B2 5/2011 Solsberg et al.
 7,988,642 B2 8/2011 Hardin et al.
 8,016,772 B2 9/2011 Heske et al.
 8,052,616 B2 11/2011 Andrisek et al.
 D657,461 S * 4/2012 Schembre et al. D24/130
 D678,511 S * 3/2013 Fojtik D24/112
 2002/0120212 A1 8/2002 Ritchart et al.
 2005/0090765 A1 4/2005 Fisher
 2005/0101879 A1 5/2005 Shidham et al.
 2005/0177117 A1 8/2005 Crocker et al.
 2006/0064031 A1 3/2006 Miller
 2007/0005084 A1 1/2007 Clague et al.
 2007/0016101 A1 1/2007 Feldman et al.
 2007/0149894 A1 6/2007 Heske et al.
 2007/0161925 A1 7/2007 Quick et al.
 2008/0161720 A1 7/2008 Nicoson et al.
 2008/0200833 A1 8/2008 Hardin et al.
 2008/0319341 A1 12/2008 Taylor et al.
 2009/0118641 A1 5/2009 Van Dam et al.
 2010/0160821 A1 6/2010 Parihar et al.
 2010/0234760 A1 9/2010 Almazan
 2011/0190661 A1 8/2011 Wegener et al.

OTHER PUBLICATIONS

Davenport, R.D., "Rapid on-site evaluation of transbronchial aspirates," *Chest*, 1990, vol. 98, pp. 59-61.
 Diette, Gregory B. et al., "Utility of On-Site Cytopathology Assessment for Bronchoscopic Evaluation of Lung Masses and Adenopathy," *Chest*, 2000, vol. 117, pp. 1186-1190.
 Gittlen, S.D. et al., "A new versatile transbronchial cytology needle for the staging and diagnosis of bronchogenic carcinoma," *Chest*, 1988, vol. 94, pp. 561-565.
 Kaffes, Arthur J. et al., "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.
 International Search Report for International Application No. PCT/US2011/031048, dated Dec. 2, 2011, 4 pages.
 International Preliminary Report on Patentability for International Application No. PCT/US2011/031048, dated Oct. 18, 2012, 12 pages.

* cited by examiner

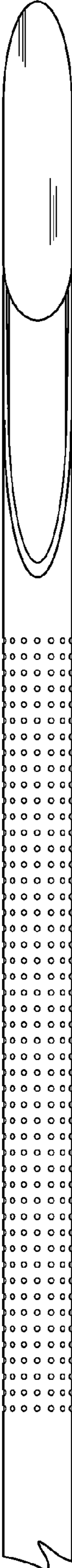


FIG. 1

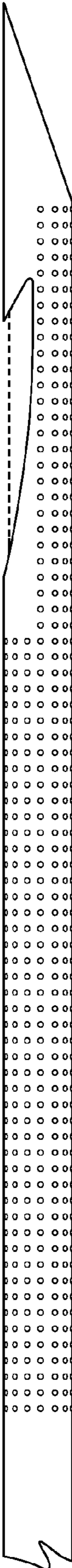


FIG. 2