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(12) **United States Design Patent** (10) **Patent No.:** **US D837,974 S**
Hannon et al. (45) **Date of Patent:** **** Jan. 8, 2019**

(54) **CATHETER WITH VARIABLE FUNNEL SHAPE**

FOREIGN PATENT DOCUMENTS

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CN 2078634 U 6/1991
EP 2 295 108 3/2011
(Continued)

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OTHER PUBLICATIONS

“Total Body Relief and Hygiene for Travel, home bath, and life’s less comfortable moments.” <http://www.biorelief.com/blog/self-cath-fits-in-your-pocket/> dated Apr. 19, 2014.

(Continued)

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

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(21) Appl. No.: **29/528,636**

(57) **CLAIM**

The ornamental design for a catheter with variable funnel shape, as shown and described.

(22) Filed: **May 29, 2015**

(51) **LOC (11) Cl.** **24-02**

DESCRIPTION

(52) **U.S. Cl.**
USPC **D24/112**

(58) **Field of Classification Search**
USPC D24/112–114, 108, 133, 130, 127, 186;
606/181, 185; 604/264, 272, 187, 181,
604/184, 227; 600/101, 139, 143;
128/200.24, 207.14, 207.15
CPC A61M 25/00; A61M 39/00; A61M 27/00;
A61M 25/0043; A61M 25/0067; A61M
25/0097

FIG. 1 is a perspective view of a catheter with variable funnel shape, showing a an embodiment of the new design with the ridges on the catheter funnel shown in broken lines. FIG. 2 is a right side elevational view of the catheter with variable funnel shape of FIG. 1. FIG. 3 is a left side elevational view of the catheter with variable funnel shape of FIG. 1. FIG. 4 is a rear elevational view of the catheter with variable funnel shape of FIG. 1. FIG. 5 is a front elevational view of the catheter with variable funnel shape of FIG. 1. FIG. 6 is a top plan view of the catheter with variable funnel shape of FIG. 1; and, FIG. 7 is a bottom plan view of the catheter with variable funnel shape of FIG. 1. The broken lines in the drawings show certain environmental structure and form no part of the claimed design.

See application file for complete search history.

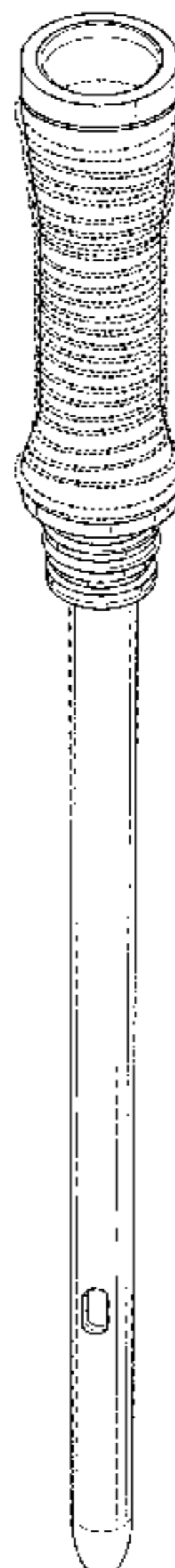
(56) **References Cited**

U.S. PATENT DOCUMENTS

3,369,542 A 2/1968 Thaidigsman
3,867,945 A 2/1975 Long
3,920,023 A 11/1975 Dye et al.
4,248,214 A 2/1981 Hannah et al.

(Continued)

1 Claim, 3 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

4,432,758 A 2/1984 Finegold
 4,553,959 A 11/1985 Hickey et al.
 4,684,369 A 8/1987 Wildemeersch
 4,773,901 A 9/1988 Norton
 4,935,017 A 6/1990 Sylvanowicz
 4,956,298 A 9/1990 Diekmann
 5,084,036 A 1/1992 Rosenbaum
 5,225,165 A 7/1993 Perlman
 D342,995 S * 1/1994 Simmons D24/112
 5,380,270 A 1/1995 Ahmadzadeh
 5,413,561 A 5/1995 Fischell et al.
 D372,311 S * 7/1996 Koros D24/108
 5,582,599 A 12/1996 Daneshvar
 5,881,774 A 3/1999 Utterberg
 5,919,170 A 7/1999 Woessner
 5,957,947 A * 9/1999 Wattiez A61B 17/3417
 606/185
 6,926,708 B1 8/2005 Franks-Farah et al.
 7,120,487 B2 10/2006 Nelson
 D590,935 S * 4/2009 Becker D24/108
 D594,553 S * 6/2009 Stonehouse D24/112
 D612,052 S * 3/2010 McCollam D24/133
 7,867,220 B2 1/2011 Tanghoj
 7,967,744 B2 6/2011 Kaye et al.
 8,181,778 B1 5/2012 van Groningen et al.
 D663,836 S * 7/2012 Ruiz, Sr. D24/133
 8,230,993 B2 7/2012 Tanghoej
 8,267,950 B2 * 9/2012 Robbins A61B 5/1411
 606/182
 D668,757 S * 10/2012 McCrary D24/108
 8,398,615 B2 3/2013 Torstensen et al.
 8,529,549 B2 9/2013 Tanghoj et al.

8,591,480 B2 * 11/2013 Marler A61B 17/320016
 604/264
 D743,560 S * 11/2015 Pietrantonio D24/186
 D758,569 S * 6/2016 Wohlfahrt D24/113
 D758,579 S * 6/2016 Keckstein D24/133
 2003/0004496 A1 1/2003 Tanghoj
 2003/0060807 A1 3/2003 Tanghoj
 2005/0043715 A1 2/2005 Nestenborg et al.
 2006/0116661 A1 6/2006 Tanghoej
 2006/0142737 A1 6/2006 Tanghoj
 2008/0033371 A1 2/2008 Updegraff et al.
 2010/0256580 A1 10/2010 Faber
 2010/0324540 A1 12/2010 Paulen
 2012/0016318 A1 1/2012 Hoang
 2012/0165791 A1 6/2012 Lovmar et al.
 2013/0261608 A1 10/2013 Tanghoj
 2013/0292286 A1 11/2013 van Groningen et al.
 2013/0327664 A1 12/2013 Tanghoej

FOREIGN PATENT DOCUMENTS

JP 2001025473 1/2001
 KR 20110101674 7/2012
 WO WO 2004/054653 7/2004
 WO WO 2004/056414 7/2004
 WO WO 2008/030999 3/2008

OTHER PUBLICATIONS

“Urinary Incontinence Appliances, Aids and Equipment” http://link.springer.com/chapter/10.1007/978-1-4471-1461-1_6# dated Dec. 31, 1992.
 International Search Report and Written Opinion for PCT/US2015/033344 dated Mar. 12, 2015.

* cited by examiner

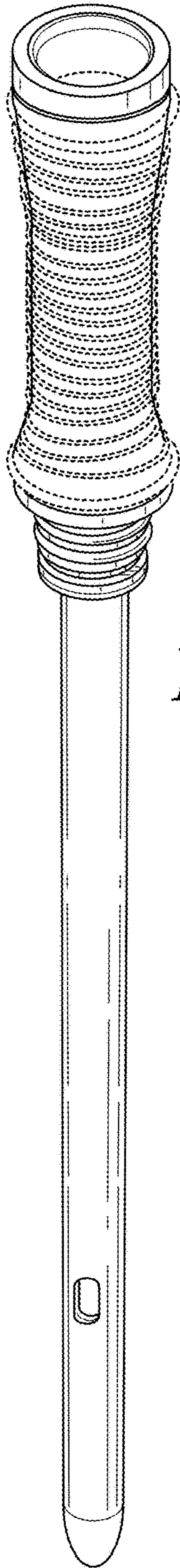


Fig. 1

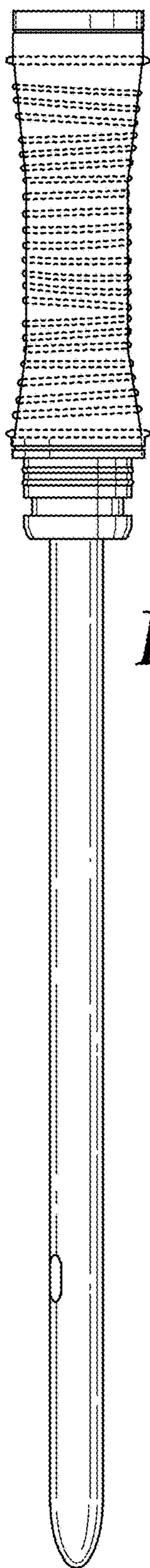


Fig. 2

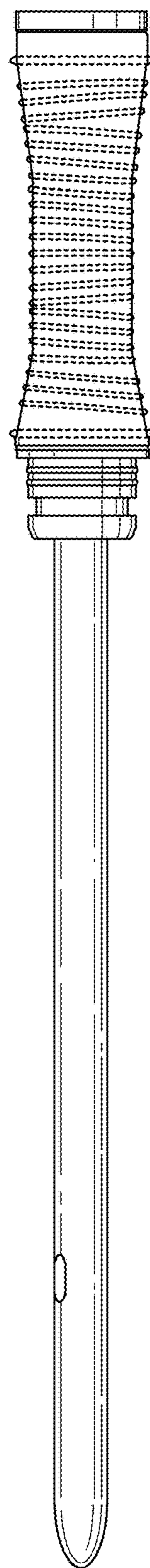


Fig. 3

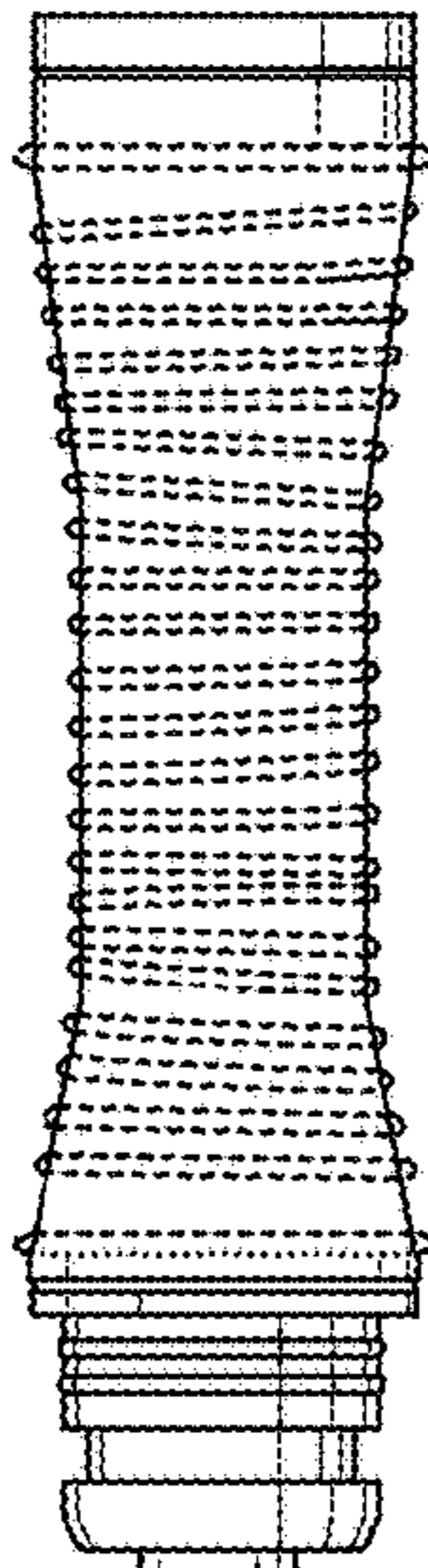


Fig. 4

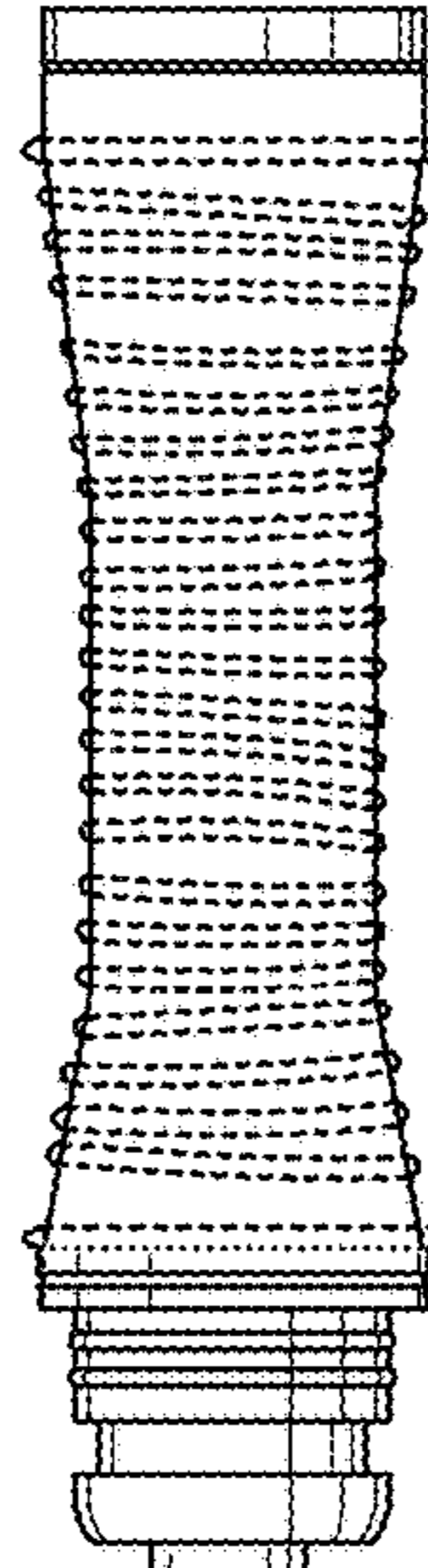


Fig. 5

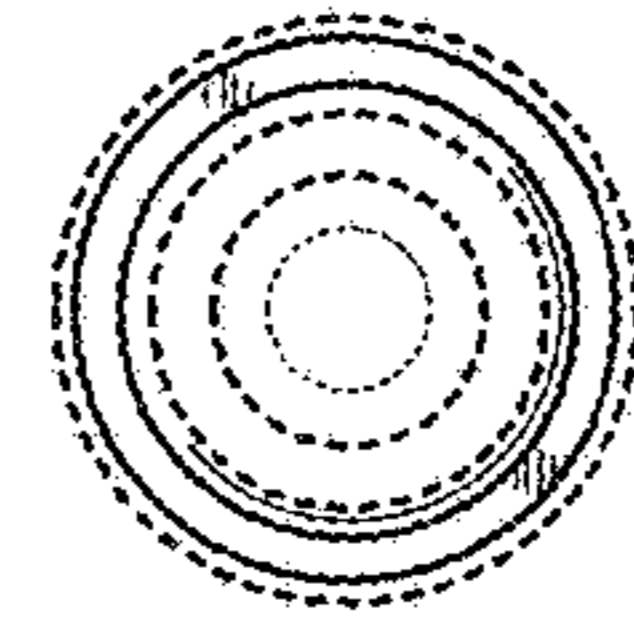


Fig. 6

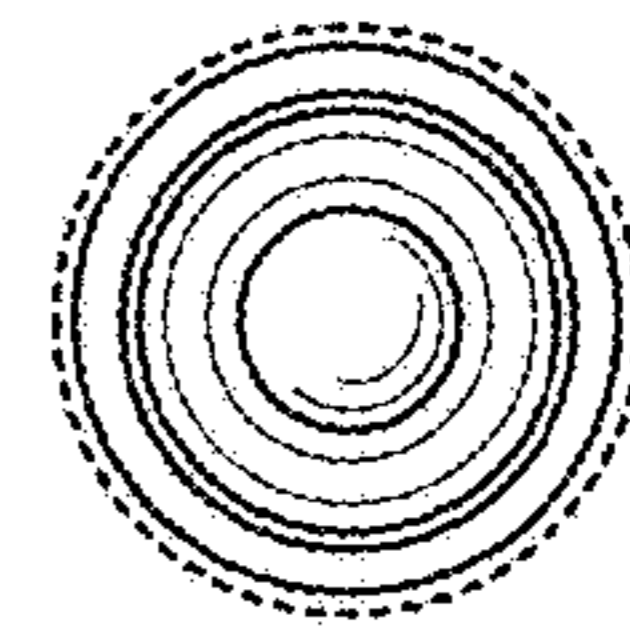


Fig. 7