

US00D866987S

(12) **United States Design Patent** (10) **Patent No.:** **US D866,987 S**
Carlile et al. (45) **Date of Patent:** **** Nov. 19, 2019**

- (54) **FABRIC ELECTRODE ASSEMBLY**
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- (**) Term: **15 Years**
- (21) Appl. No.: **29/657,822**
- (22) Filed: **Jul. 25, 2018**

6,102,856 A 8/2000 Groff et al.
 6,171,263 B1 * 1/2001 Sullivan A61B 5/02411
 600/500
 D443,063 S * 5/2001 Pisani D24/187
 6,454,708 B1 9/2002 Ferguson et al.
 6,498,652 B1 12/2002 Varshneya et al.
 6,569,095 B2 5/2003 Eggers
 (Continued)

FOREIGN PATENT DOCUMENTS

CA 2885972 12/2014
 CN 103260528 8/2013
 (Continued)

OTHER PUBLICATIONS

Syrteny Tens Unit Electrode Pads, date Apr. 10, 2016, found on May 23, 2019 at https://www.amazon.com/Syrteny-Electrodes-Replacement-Electrode-Electrotherapy/dp/B00K504ED4/ref=pd_sbs_328_2/143-4125003-6732004?_e%E2%80%A6=undefined&th=1.*

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(57) **CLAIM**

The ornamental design for fabric electrode assembly, as shown and described.

DESCRIPTION

FIG. 1 is a top, plan view of a fabric electrode assembly showing our new ornamental design.
 FIG. 2 is a bottom plan view thereof.
 FIG. 3 is a front elevation view thereof.
 FIG. 4 is a back elevation view thereof.
 FIG. 5 is a left elevational view thereof; and,
 FIG. 6 is a right elevational view thereof.
 The broken lines depict portions of the fabric electrode assembly that form no part of the claimed design.

1 Claim, 2 Drawing Sheets

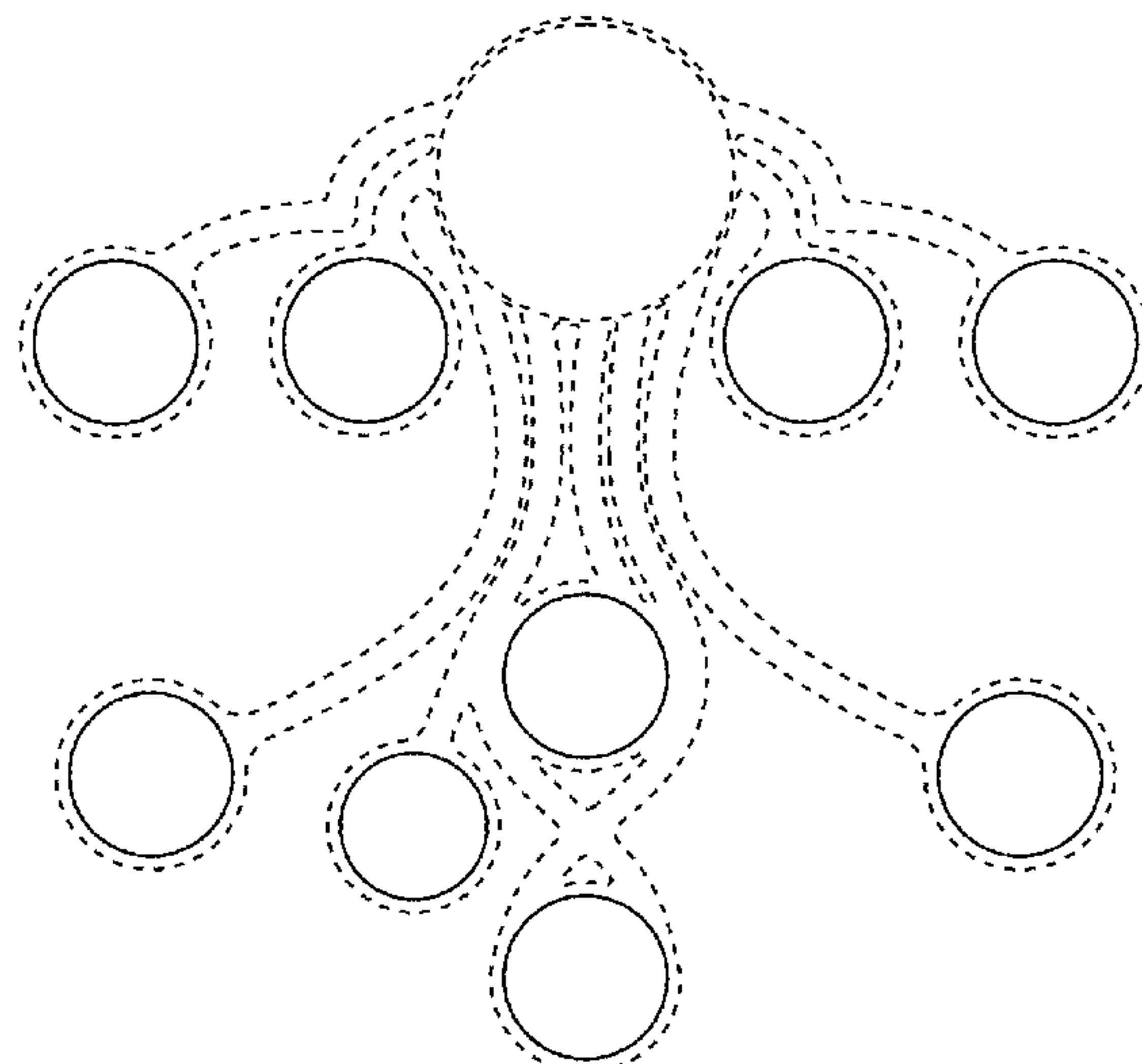
Related U.S. Application Data

- (63) Continuation-in-part of application No. 29/644,539, filed on Apr. 18, 2018.
- (51) **LOC (12) Cl.** **05-06**
- (52) **U.S. Cl.**
USPC **D5/99**
- (58) **Field of Classification Search**
USPC D5/4, 7, 43, 47, 53–62, 99, 30; D6/582, D6/583, 585, 586, 602, 613, 617, 622; D20/22, 27; D25/138, 152, 153, 156, D25/157, 163, 106, 103, 111; D12/203; D24/187
CPC B44F 3/00; B44F 7/00; D03D 3/00; D03D 9/00; D03D 15/00; D06N 7/00; D21F 1/0027; D21H 5/02; D21H 27/02; F41H 3/02
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,781,200 A 11/1988 Baker
 5,033,864 A 7/1991 Lasecki et al.
 5,842,982 A 12/1998 Manheimer
 5,954,663 A 9/1999 Gat
 6,047,201 A 4/2000 Jackson



(56)

References Cited

U.S. PATENT DOCUMENTS

7,949,389 B2 5/2011 Wolfberg et al.
 8,094,013 B1 1/2012 Lee et al.
 8,275,436 B2 9/2012 Wang
 8,340,748 B2 12/2012 Kimura et al.
 8,347,144 B2 1/2013 Khalak et al.
 8,417,351 B2 4/2013 Kilger
 D687,152 S * 7/2013 Tilk D24/187
 8,620,448 B1 12/2013 Delia
 8,666,481 B2 3/2014 Harrold et al.
 8,781,847 B2 7/2014 Simms et al.
 D719,660 S * 12/2014 Vosch D24/187
 9,028,405 B2 5/2015 Tran
 D752,764 S * 3/2016 Peters D24/187
 9,314,159 B2 4/2016 Lyon et al.
 9,314,203 B2 * 4/2016 Peters A61B 5/4343
 D761,436 S * 7/2016 Fogarty D24/187
 D766,447 S * 9/2016 Bishay D24/187
 9,579,055 B1 2/2017 Rood et al.
 9,585,614 B2 3/2017 Dugan
 D785,187 S * 4/2017 Darmanjian A61B 5/4362
 D24/187
 9,763,583 B2 9/2017 Oz et al.
 D800,321 S * 10/2017 Roche D24/187
 9,986,315 B2 * 5/2018 Oleson H04B 1/385
 D835,286 S * 12/2018 Sebban D24/187
 D854,342 S * 7/2019 McClain D5/63
 2001/0031916 A1 * 10/2001 Bennett A61B 5/0492
 600/383
 2002/0133067 A1 9/2002 Jackson
 2003/0158593 A1 8/2003 Heilman et al.
 2004/0167458 A1 * 8/2004 Draghia-Akli A61N 1/327
 604/20
 2005/0267376 A1 * 12/2005 Marossero A61B 5/02411
 600/511
 2005/0271921 A1 * 12/2005 Kim H01M 4/8605
 429/480
 2007/0043412 A1 * 2/2007 Janssens A61N 1/0587
 607/119
 2007/0255184 A1 * 11/2007 Shennib A61B 5/0006
 600/591
 2008/0206526 A1 * 8/2008 Kim B32B 3/14
 428/195.1
 2008/0275349 A1 11/2008 Halperin et al.
 2009/0130515 A1 * 5/2009 Son H01M 4/861
 429/481
 2009/0182396 A1 * 7/2009 Aller A61N 1/0408
 607/88
 2009/0225419 A1 * 9/2009 Tamai B44F 7/00
 359/463
 2009/0247849 A1 10/2009 McCutcheon et al.
 2009/0299212 A1 * 12/2009 Principe A61B 5/04882
 600/547
 2010/0168596 A1 7/2010 Jaeschke et al.
 2010/0204560 A1 * 8/2010 Salahieh A61B 5/01
 600/373
 2010/0241018 A1 9/2010 Vogel
 2010/0274104 A1 10/2010 Khan
 2011/0288379 A1 11/2011 Wu
 2012/0071870 A1 * 3/2012 Salahieh A61B 5/01
 606/33
 2012/0109013 A1 * 5/2012 Everett A61B 5/1036
 600/587
 2012/0150010 A1 * 6/2012 Hayes-Gill A61B 5/02411
 600/382
 2012/0209088 A1 8/2012 Romem
 2012/0232398 A1 9/2012 Roham et al.
 2012/0232416 A1 9/2012 Gilham et al.

2012/0253142 A1 10/2012 Meger et al.
 2012/0299732 A1 11/2012 Vogel
 2013/0021154 A1 1/2013 Solomon et al.
 2013/0072765 A1 3/2013 Kahn et al.
 2013/0102856 A1 4/2013 Wolfberg
 2013/0197362 A1 8/2013 Mittal et al.
 2013/0289361 A1 10/2013 Bridge et al.
 2014/0180169 A1 * 6/2014 Peters A61B 5/04882
 600/588
 2014/0228653 A1 8/2014 Kiraly
 2015/0164438 A1 6/2015 Halperin et al.
 2015/0201846 A1 7/2015 Maershon et al.
 2015/0250419 A1 9/2015 Cooper et al.
 2016/0058363 A1 * 3/2016 Hayes-Gill A61B 5/6833
 600/588
 2016/0081567 A1 3/2016 Nousiainen
 2016/0120500 A1 5/2016 Myklebust et al.
 2016/0157717 A1 6/2016 Gaster
 2016/0183873 A1 6/2016 Lin et al.
 2016/0317091 A1 11/2016 Olukoya et al.
 2017/0127995 A1 5/2017 Hyde et al.
 2017/0127996 A1 5/2017 Hyde et al.
 2017/0127997 A1 5/2017 Hyde et al.
 2017/0265799 A1 9/2017 Du et al.
 2017/0281087 A1 * 10/2017 Workman A61B 5/6804

FOREIGN PATENT DOCUMENTS

CN	104382585	3/2015
CN	105997059	10/2016
CN	106999100	8/2017
CN	107260177	10/2017
EP	1432349	6/2006
WO	2004075750	9/2004
WO	2009146181	12/2009
WO	2011039745	4/2011
WO	201252904	4/2012
WO	201359267	4/2013
WO	201402823	1/2014
WO	2014162135	10/2014
WO	2015062851	5/2015
WO	2015082987	6/2015
WO	201667276	5/2016
WO	201793251	6/2017
WO	2017102566	6/2017
WO	2017142277	8/2017

OTHER PUBLICATIONS

Syrteny Tens Unit Electrode Pads, date Sep. 15, 2016, found on May 23, 2019 at https://www.annazon.com/Syrteny-Electrodes-Replacement-Electrode-Electrotherapy/dp/B01COTONK2/ref=cm_cr_ar_p_d_product_top?ie=UTF8&th=1.
 Syrteny Tens Unit Electrode Pads, date Mar. 28, 2015, found on May 23, 2019, at <https://www.amazon.com/Syrteny-Electrodes-Replacement-Electrode-Electrotherapy/dp/B00K5047WM?th=1>.
 International Search Report and Written Opinion issued in PCT/US2017/025563 dated Jun. 21, 2017.
 M.J. Rooijackers et al. "Influence of Electrode Placement on Signal Quality for Ambulatory Pregnancy Monitoring", Computation and Mathematical Medicine, vol. 2014, Feb. 3, 2014.
 European Search report issued in Application No. EP17776853 dated Jul. 22, 2019.
 U.S. Appl. No. 29/644,539, dated Jun. 5, 2019, Notice of Allowance.
 U.S. Appl. No. 15/476,295, dated Jun. 28, 2019, Non Final Office Action.

* cited by examiner

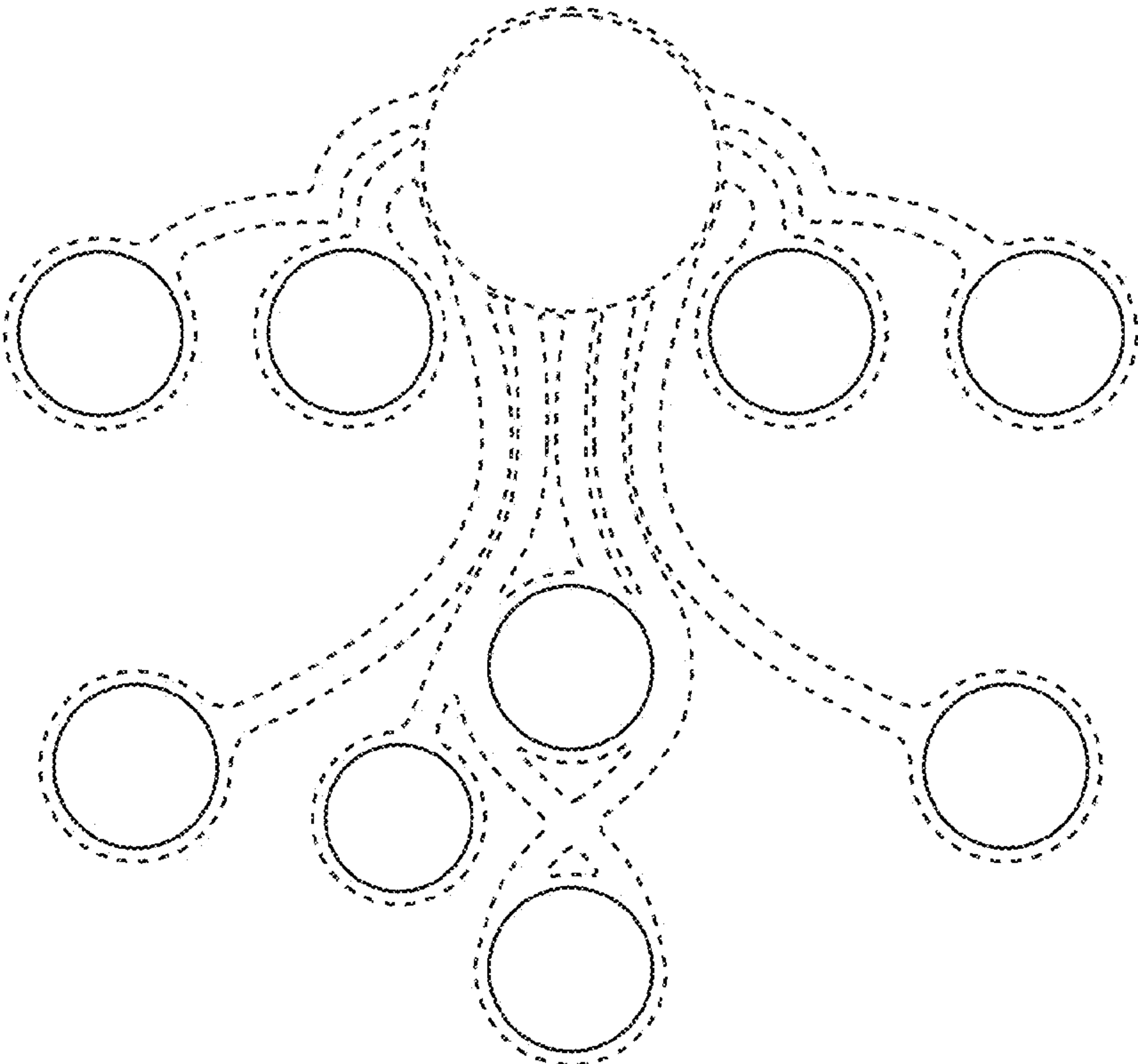


FIG. 1

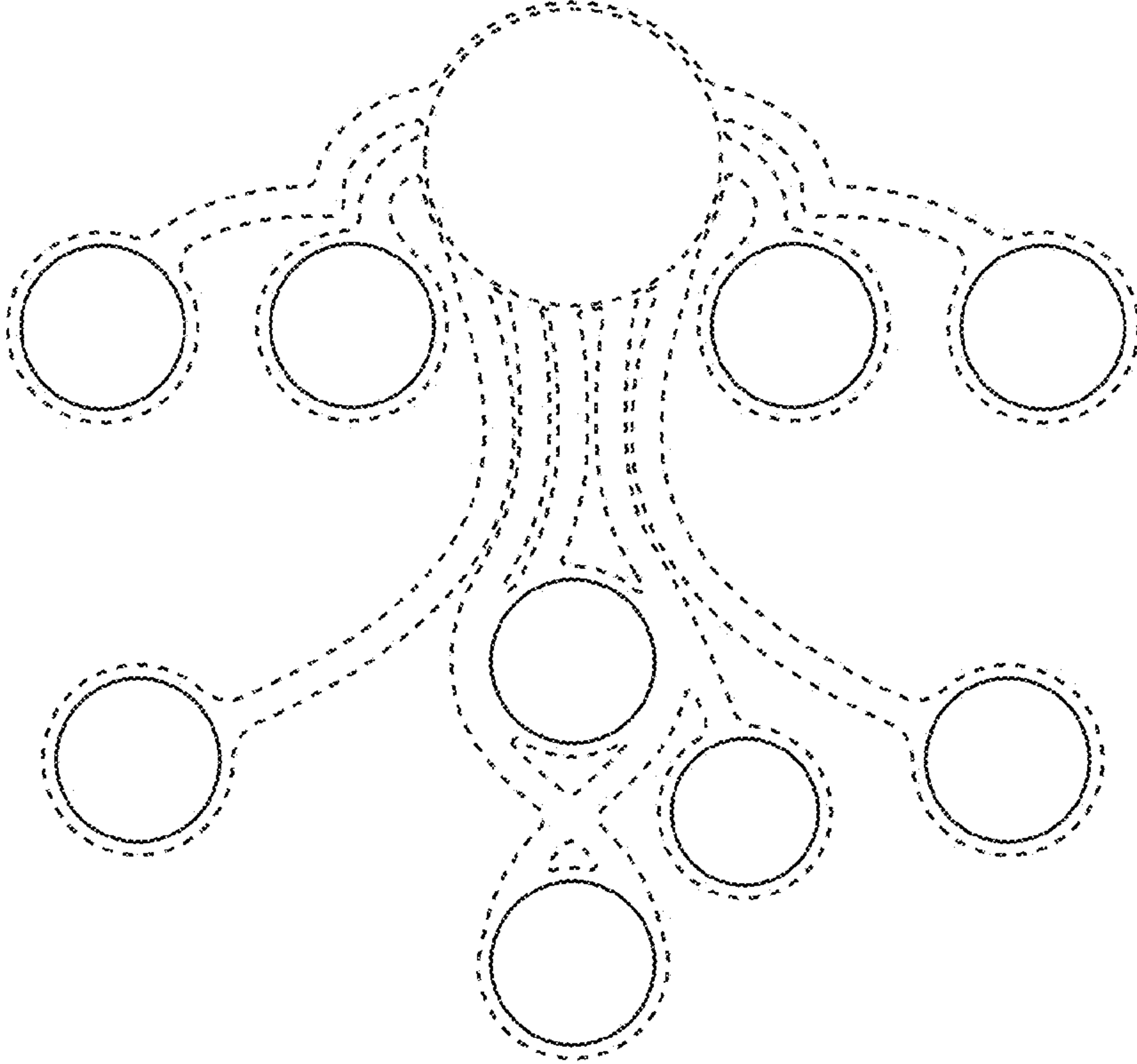


FIG. 2

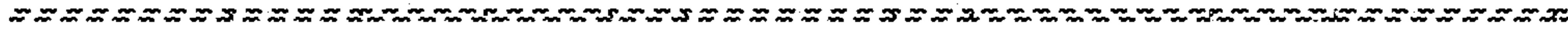


FIG. 3

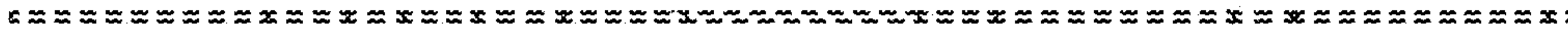


FIG. 4

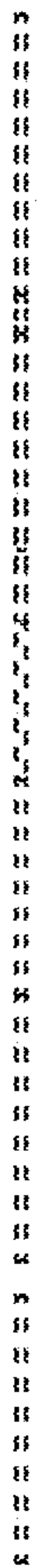


FIG. 5

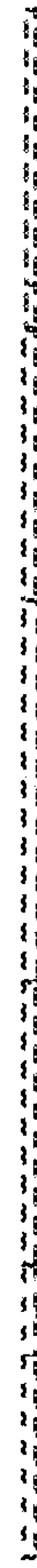


FIG. 6