US00D964474S

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

(10) **Patent No.: US D964,474 S**
(45) **Date of Patent: ** Sep. 20, 2022**

(54) **SPINNING DISC AND SPINDLE TOY**

(71) Applicant: **Todd N. Brous**, Great Neck, NY (US)

(72) Inventor: **Todd N. Brous**, Great Neck, NY (US)

(73) Assignee: **WIST WORK LLC**, Great Neck, NY (US)

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

(21) Appl. No.: **29/673,430**

(22) Filed: **Dec. 14, 2018**

Related U.S. Application Data

(60) Division of application No. 29/642,541, filed on Mar. 30, 2018, now Pat. No. Des. 843,488, which is a
(Continued)

(51) **LOC (13) Cl.** **21-01**

(52) **U.S. Cl.**
USPC **D21/455**

(58) **Field of Classification Search**
USPC D21/455–464; D15/139; D8/70, 387; 446/103, 236–266; 74/425, 458, 500,
(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

931,901 A * 8/1909 Towne A63H 1/06 446/241
1,216,775 A * 2/1917 Conradson F16H 1/16 74/425

(Continued)

FOREIGN PATENT DOCUMENTS

CN 301557519 * 5/2011
CN 302061112 * 9/2012

(Continued)

OTHER PUBLICATIONS

Hobby Motorizing Parts Worm Gear Set shown on webpage: https://web.archive.org/web/20160517094343/http://hobbymasters.com/stevens-assorted-plastic-worm-gear-set-12pcs/ Web Archive capture date: May 17, 2016 [Accessed May 19, 2018] (Year: 2016).*

(Continued)

Primary Examiner — Catherine A Tuttle
(74) *Attorney, Agent, or Firm* — Dunlap Bennett & Ludwig, PLLC

(57) **CLAIM**

The ornamental design for a spinning disc and spindle toy, as shown and described.

DESCRIPTION

FIG. **1** is a top front perspective view of a first embodiment of a spinning disc and spindle toy, showing my design;
FIG. **2** is a top plan view thereof;
FIG. **3** is a bottom plan view thereof;
FIG. **4** is a front elevation view thereof, the rear elevation view being a mirror image thereof;
FIG. **5** is a right elevation view thereof, the left elevation view being a mirror image thereof;
FIG. **6** is an enlarged detail view of FIG. **1**;
FIG. **7** is a cross sectional view of FIG. **1**, taken along line **7-7** of FIG. **1**;
FIG. **8** is a top front perspective view of a second embodiment of the spinning disc and spindle toy, showing my design;
FIG. **9** is a top plan view thereof;
FIG. **10** is a bottom plan view thereof;
FIG. **11** is a front elevation view thereof, the rear elevation view being a mirror image thereof;
FIG. **12** is a right elevation view thereof, the left elevation view being a mirror image thereof;
FIG. **13** is an enlarged detail view of FIG. **8**;
FIG. **14** is a cross sectional view, taken along line **14-14** of FIG. **8**;

(Continued)

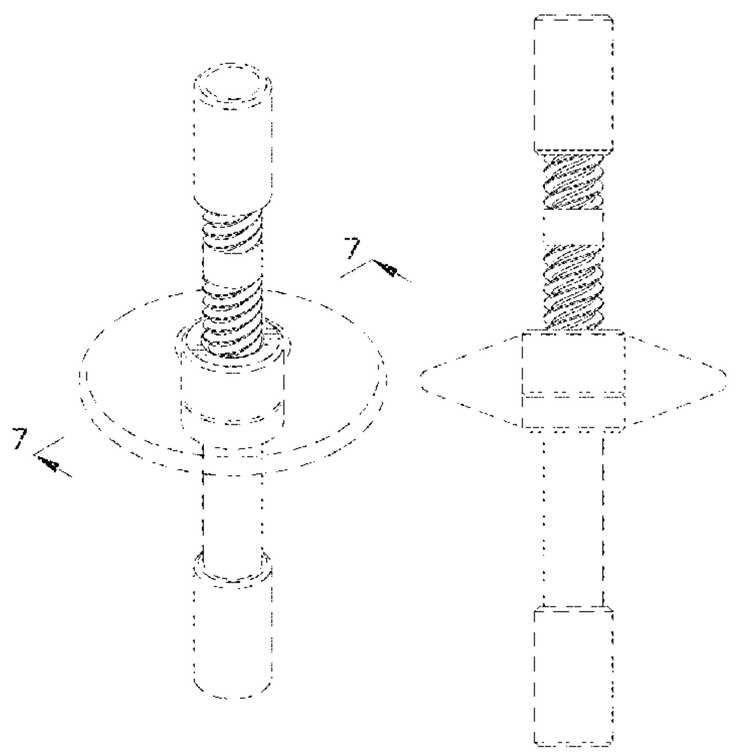

FIG. **15** is a top front perspective view of a third embodiment of the spinning disc and spindle toy, showing my design;
FIG. **16** is a top plan view thereof;
FIG. **17** is a bottom plan view thereof;
FIG. **18** is a front elevation view thereof, the rear elevation view being a mirror image thereof;
FIG. **19** is a right elevation view thereof, the left elevation view being a mirror image thereof;
FIG. **20** is an enlarged detail view of FIG. **15**;
FIG. **21** is a cross sectional view taken along line **21-21** of FIG. **15**;
FIG. **22** is a top front perspective view of a fourth embodiment of the spinning disc and spindle toy, showing my design;
FIG. **23** is a top plan view thereof;
FIG. **24** is a bottom plan view thereof;
FIG. **25** is a front elevation view thereof, the rear elevation view being a mirror image thereof;
FIG. **26** is a right elevation view thereof, the left elevation view being a mirror image thereof;
FIG. **27** is an enlarged detail view of FIG. **22**; and,
FIG. **28** is a cross sectional view taken along line **28-28** of FIG. **22**.
The even length dashed lines in the drawings depict portions of the spinning disc and spindle toy that form no part of the claimed design. The alternating length dashed lines in the drawings depict the boundary of the claim; and it is understood that the claim extends to the boundary that forms no part of the claimed design.

1 Claim, 4 Drawing Sheets

Related U.S. Application Data

continuation-in-part of application No. 15/727,658, filed on Oct. 9, 2017, now abandoned.

(58) **Field of Classification Search**
USPC ..... 74/505, 507, 509, 10.8, 89.14, 724, 74/665 GD, 424.5, 425.5, 426, 427, 499
CPC A63H 1/00–32; A63H 11/04; A63H 13/20; A63H 31/02
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,415,016	A *	5/1922	Brown	B23F 13/04	451/219
1,683,758	A *	9/1928	Candee	B23F 15/06	74/416
1,971,260	A *	8/1934	Guest	F16H 55/22	74/458
2,417,565	A *	3/1947	Norvell	A63B 65/12	446/241
2,717,983	A *	9/1955	Fay	H03J 1/06	336/131
2,961,796	A *	11/1960	Davis	A63H 33/22	273/109
D246,130	S *	10/1977	Koblick	D21/466	
4,279,173	A *	7/1981	Krebs	F16H 25/2006	74/409
D260,103	S *	8/1981	Appel	D11/157	
4,440,399	A *	4/1984	Smith	A63B 63/06	273/348.4
4,618,297	A *	10/1986	Bishop	B23F 3/00	409/58
5,099,805	A *	3/1992	Ingalls	F01L 1/042	123/90.15
5,219,146	A *	6/1993	Thompson	F16K 7/061	251/7
5,735,724	A *	4/1998	Udagawa	A63H 13/20	40/409
5,827,107	A *	10/1998	Bears	A63H 1/20	446/263
6,592,423	B1 *	7/2003	Boyle	A63H 33/22	362/323
7,866,225	B2 *	1/2011	Oberle	B60N 2/067	74/427
8,567,280	B2 *	10/2013	Bogar	F16H 1/163	74/424.5
8,794,087	B2 *	8/2014	Wu	F16H 25/2015	74/424.71
D796,563	S *	9/2017	Sharivker	D15/139	
2002/0139210	A1 *	10/2002	Blanchard	F16H 1/16	74/425
2003/0031497	A1 *	2/2003	Ohba	A45D 40/04	401/88
2004/0129102	A1 *	7/2004	Rennen	F02D 9/1065	74/425
2008/0099615	A1 *	5/2008	Steiner	B64C 1/1484	244/129.3
2009/0304478	A1 *	12/2009	Jung	F16B 39/30	411/246
2012/0097505	A1 *	4/2012	Berger	B65G 21/16	198/836.3
2012/0192668	A1 *	8/2012	Hsu	F16H 25/2214	74/424.89
2013/0178131	A1 *	7/2013	Wudtke	A63H 13/00	446/129
2015/0217676	A1 *	8/2015	Tajima	B60Q 1/076	74/89.14

FOREIGN PATENT DOCUMENTS

CN	303842563	*	9/2016	
DE	360879 C	*	10/1922	A63H 1/06
DE	29515347 U1	*	11/1995	A63H 1/00
DE	102015209600 A1	*	12/2016	F16H 25/2204
GB	434382 A	*	8/1935	F16K 27/04
KR	300885380.0000	*	12/2016	

OTHER PUBLICATIONS

OJADE Magnetic Mechanics Gravity Moondrop Fidget Spinner Toys (3PCS). (n.d.). Retrieved Mar. 29, 2018, from http://www.dx.com/p/ojade-magnetic-mechanics-gravity-moondrop-fidget-spinner-toys-3pcs-467958#.Wr1Api7wZ6t (Year: 2018).*
Fat Brain Toys Kids Spinagain Toy: Toys & Games, (n.d.). Retrieved Mar. 29, 2018, from https://www.amazon.com/Fat-Brain-Toys-Kids-Spinagain/dp/B016F5QJQW (Year: 2018).*
Ball Screw Sfu3205 Standard Accuracy Ball Screw Set With End Machining (n.d.). Retrieved Mar. 29, 2018, from https://www.alibaba.com/product-detail/Ball-Screw-SFU3205-Standard-Accuracy-Ball_60705084571.ht (Year: 2018).*
Nut Off Bolt Screw Close Up Magic Trick Micro Psychic Rotating, (n.d.). Retrieved Mar. 29, 2018, from https://www.banggood.com/Nut-Off-Bolt-Screw-Close-Up-Magic-Trick-Micro-Psychic-Rotating-p-922768.html?cur_warehouse=CN (Year: 2018).*
Dryspin®—ACME—Trapezoidal (Metric ACME)—High Helix, (n.d.). Retrieved Mar. 29, 2018, from https://www.igus.com/wpck/17082/drylin_trapezgewindemutter#section_3 (Year: 2018).*

* cited by examiner

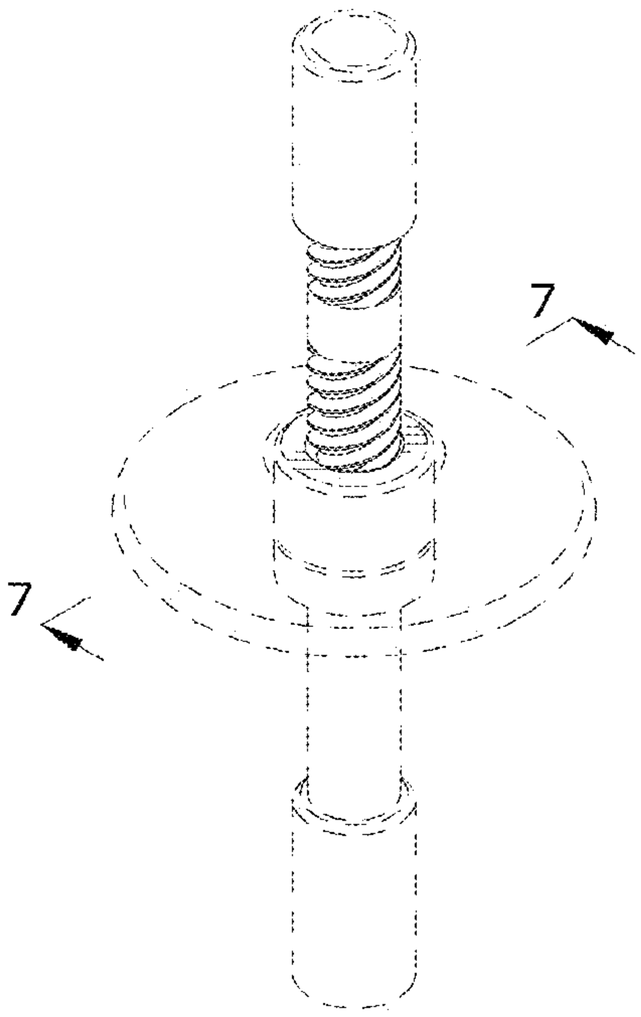

FIG.1

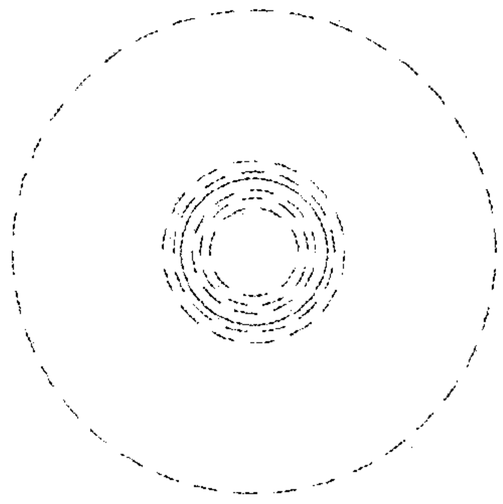

FIG.2

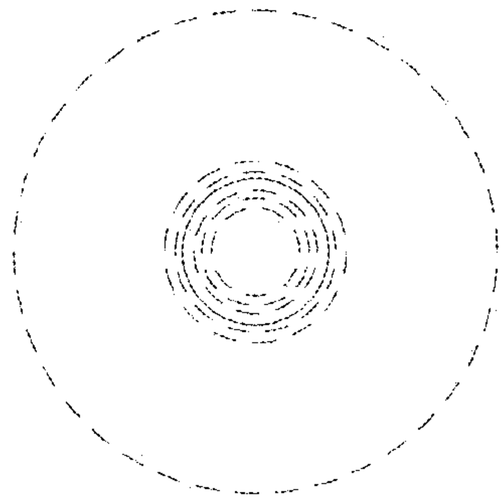

FIG.3

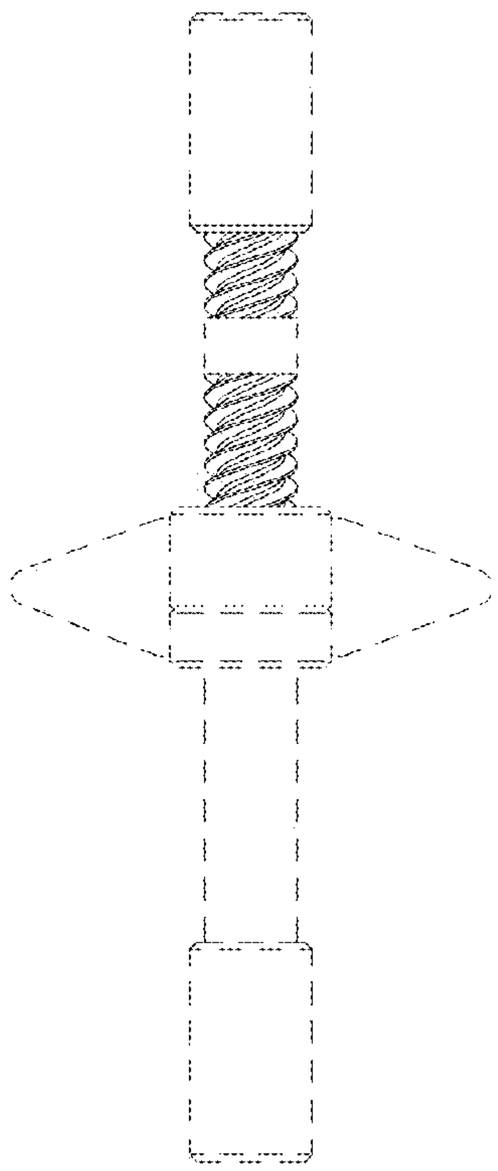

FIG.4

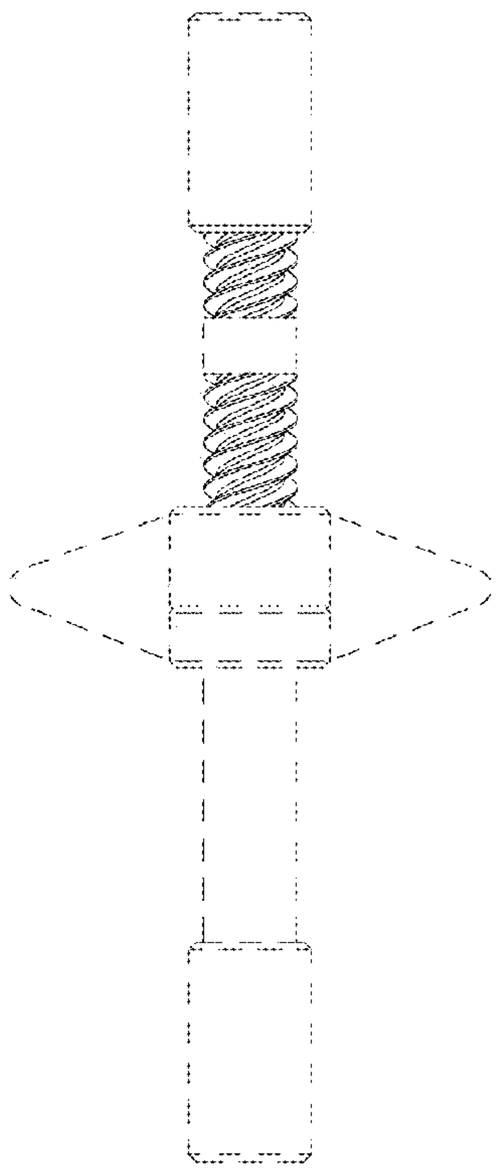

FIG.5

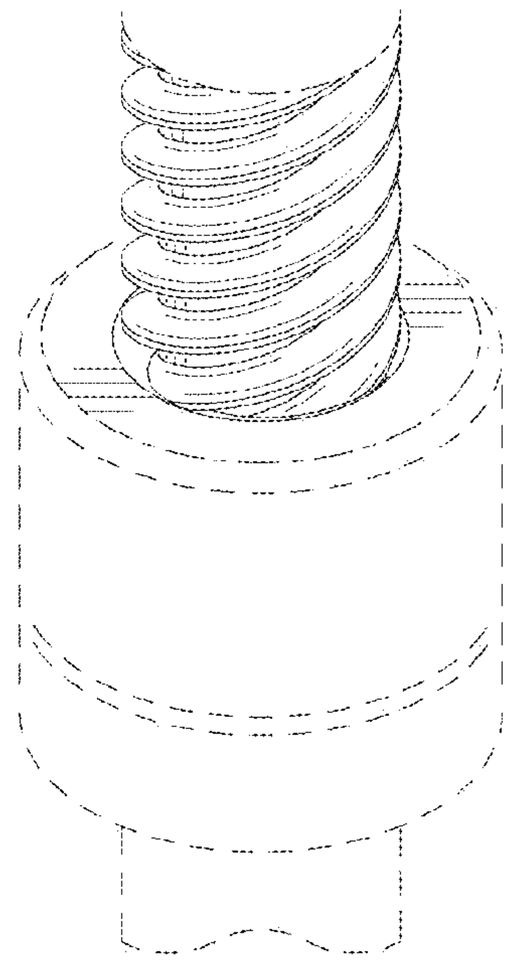

FIG.6

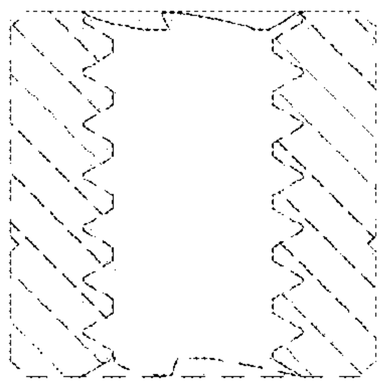

FIG.7

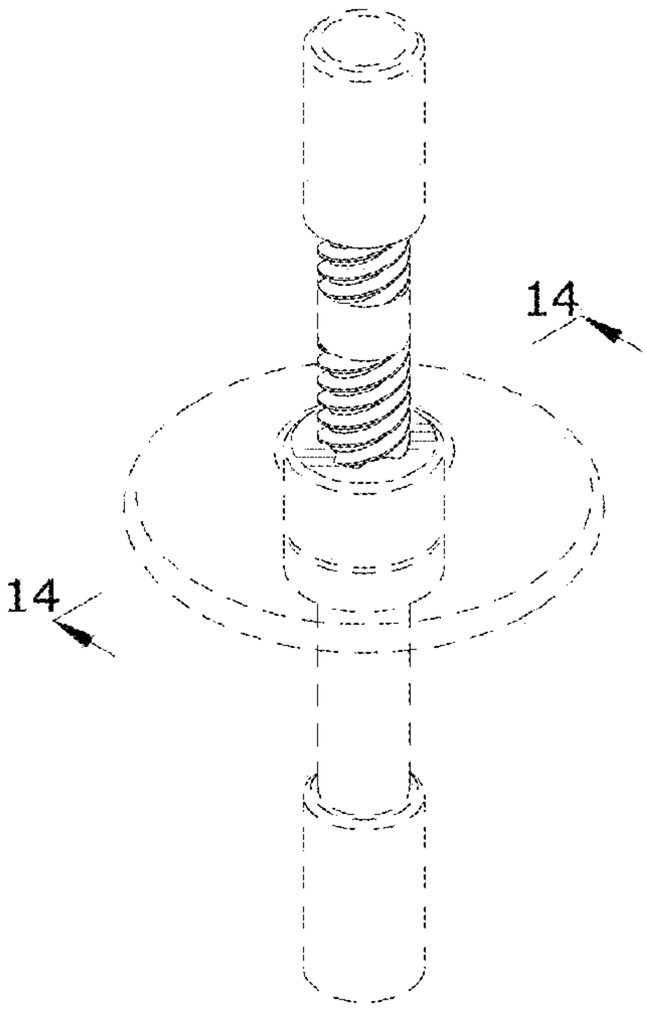

FIG.8

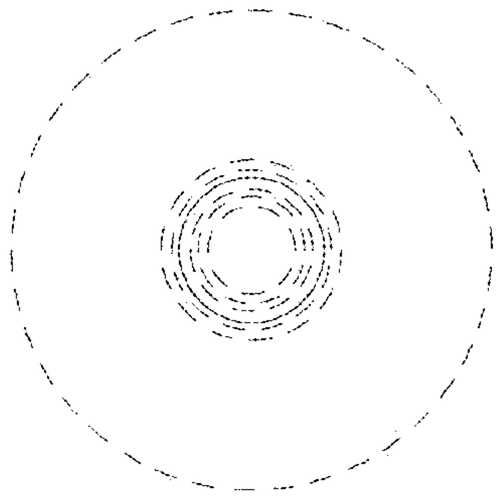

FIG.9

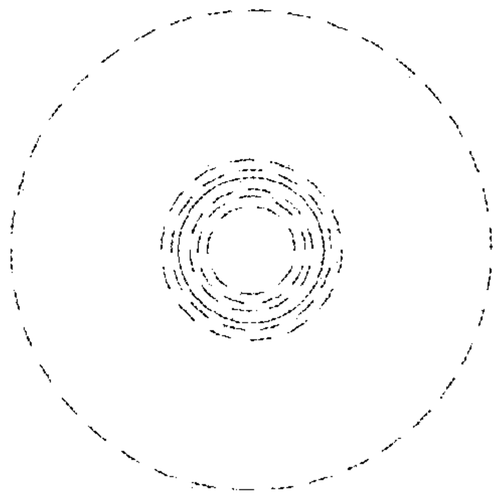

FIG.10

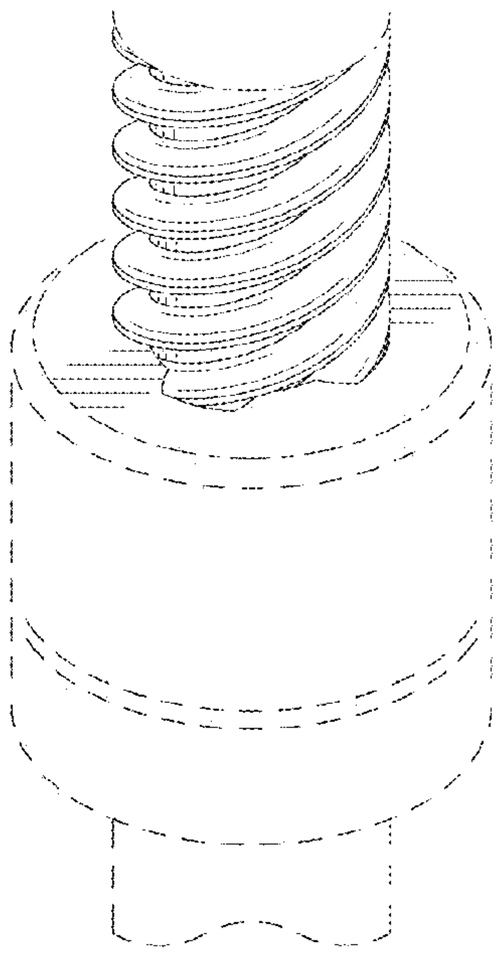

FIG.13

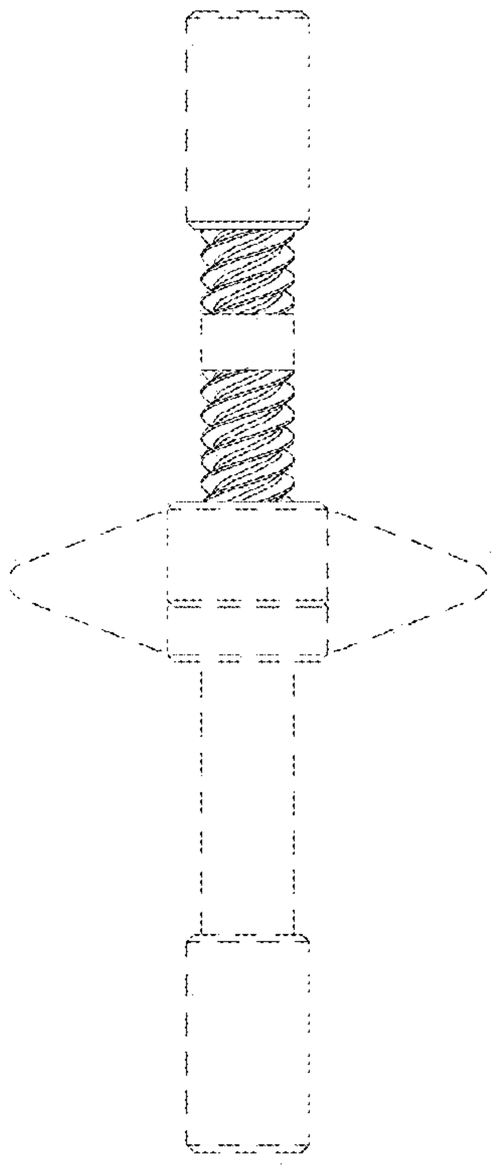

FIG.11

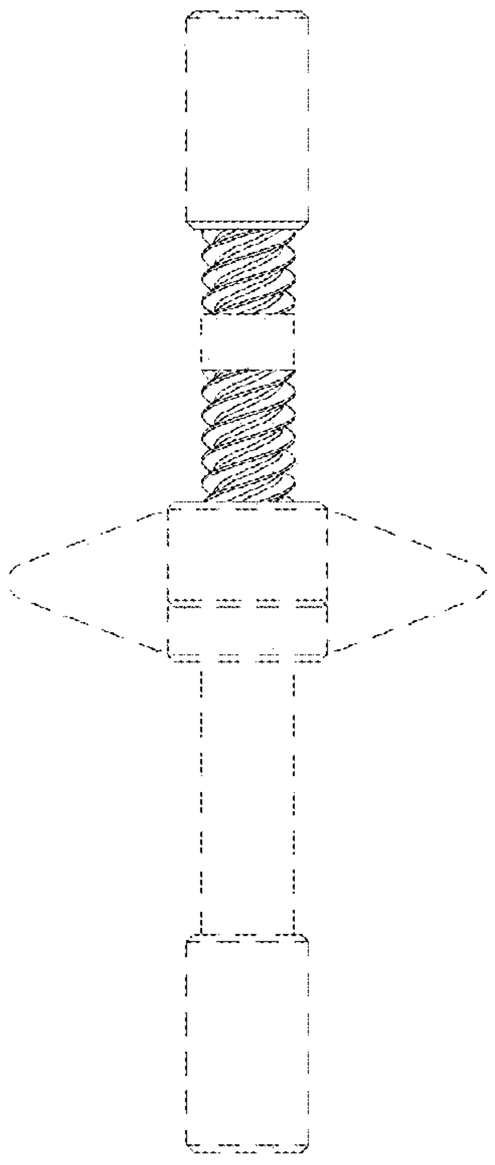

FIG.12

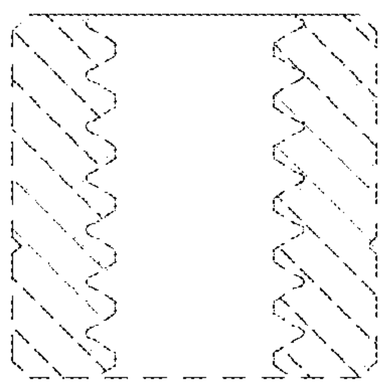

FIG.14

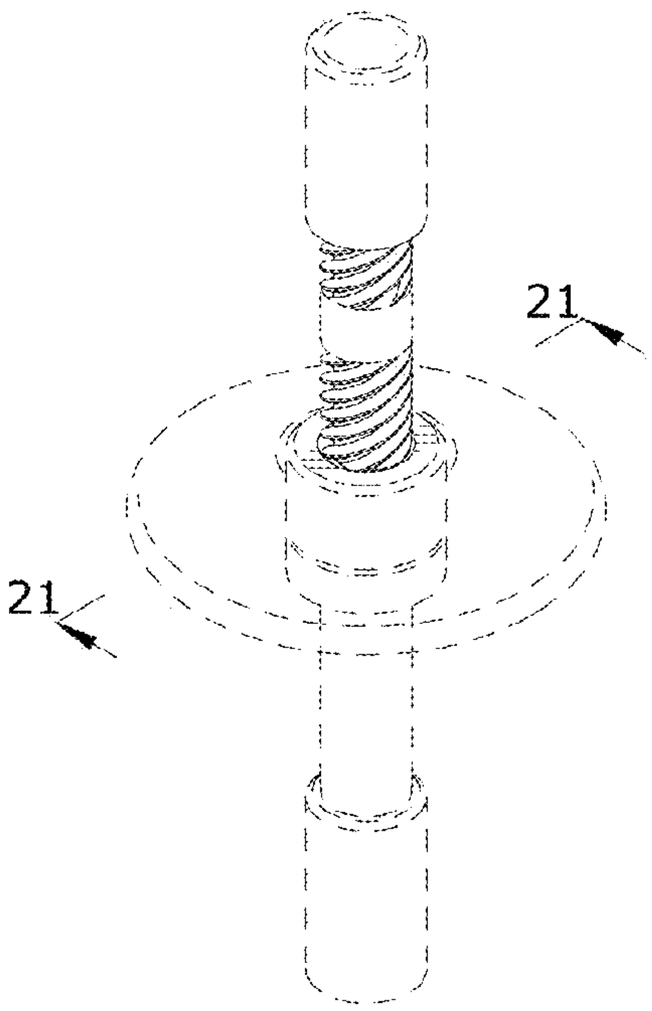

FIG.15

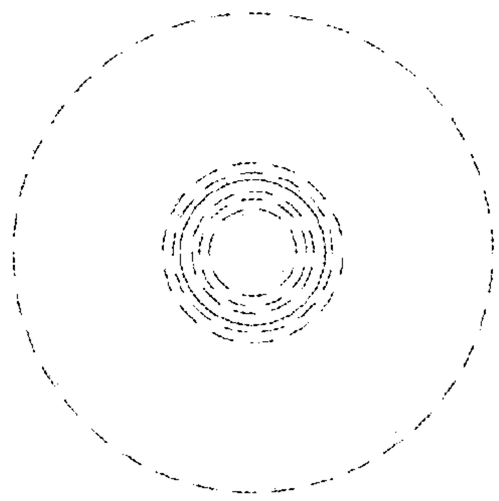

FIG.16

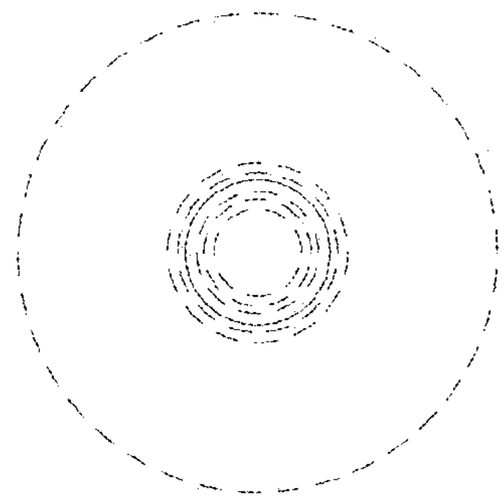

FIG.17

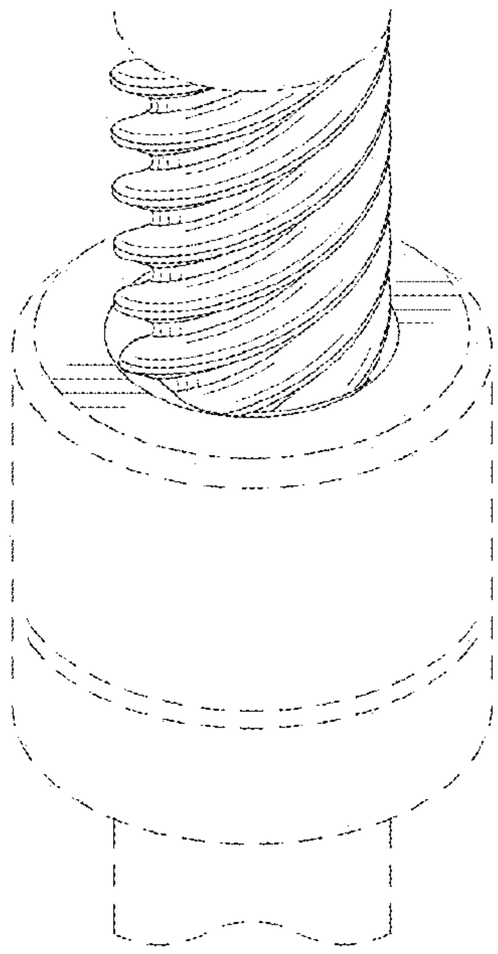

FIG.20

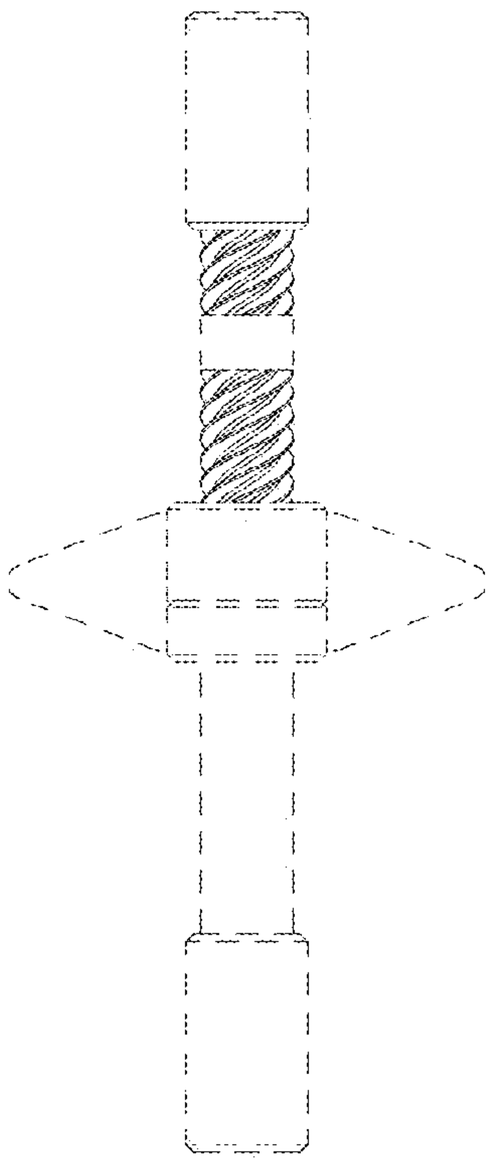

FIG.18

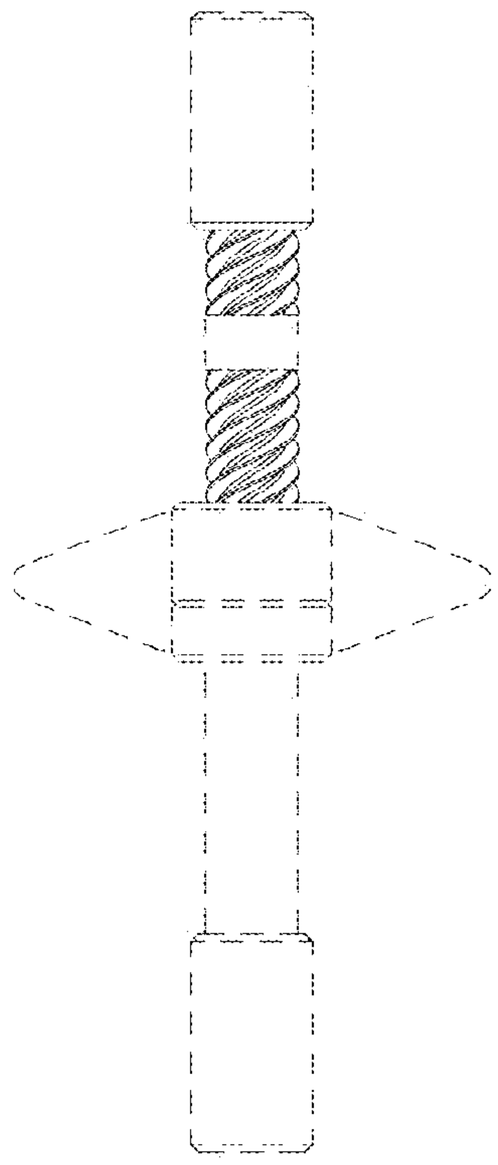

FIG.19

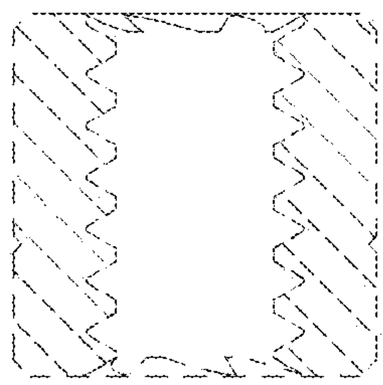

FIG.21

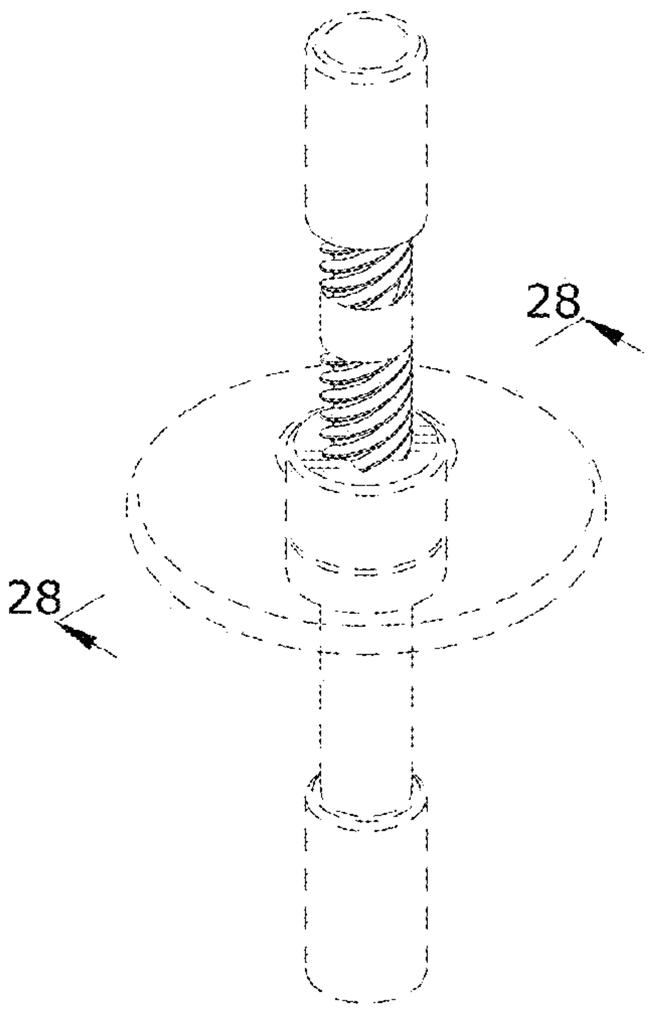

FIG.22

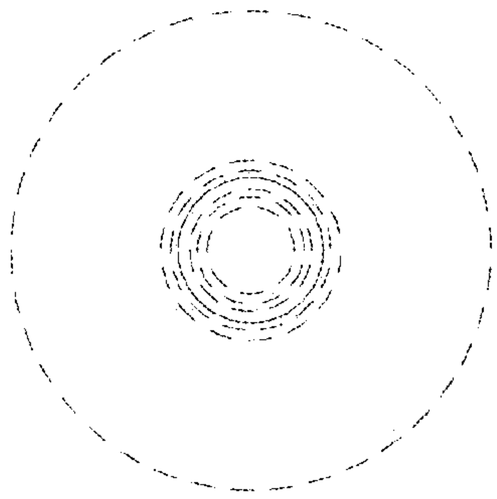

FIG.23

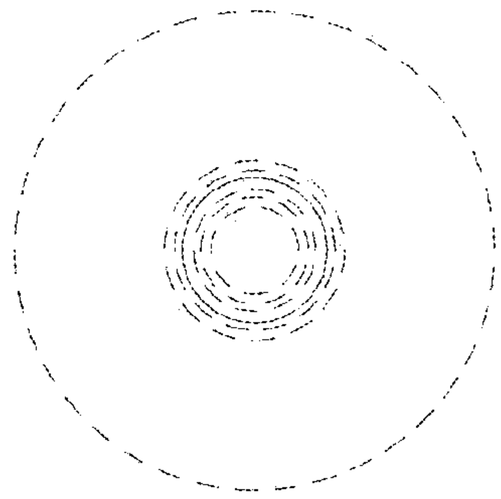

FIG.24

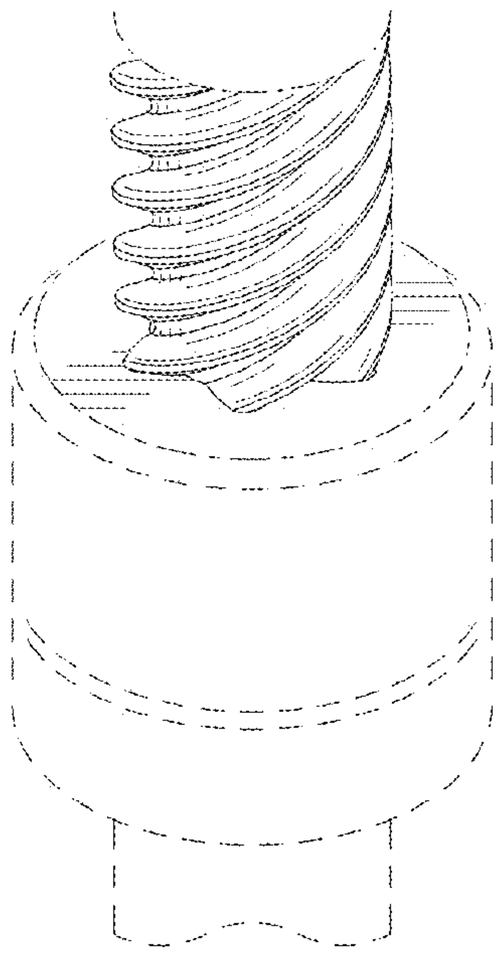

FIG.27

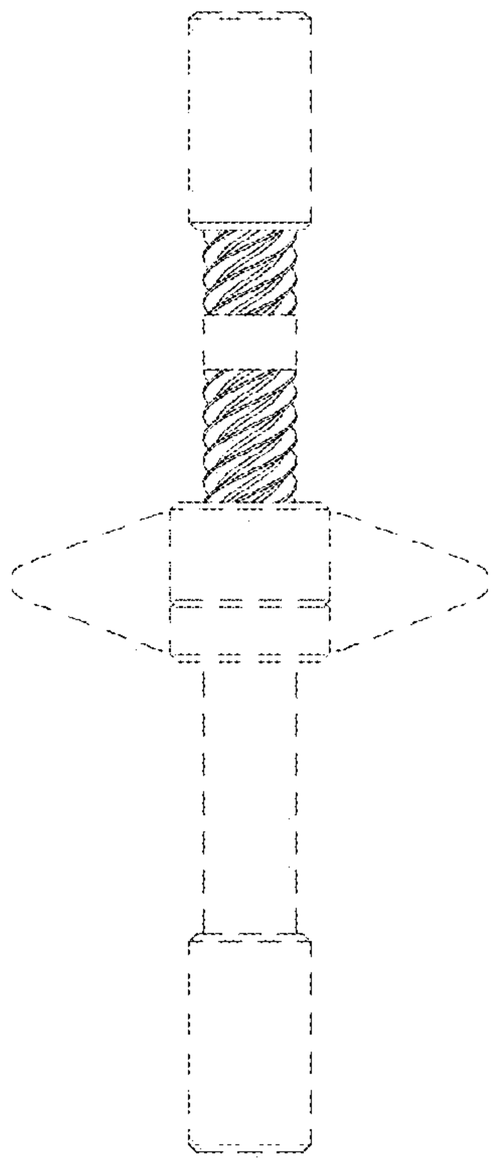

FIG.25

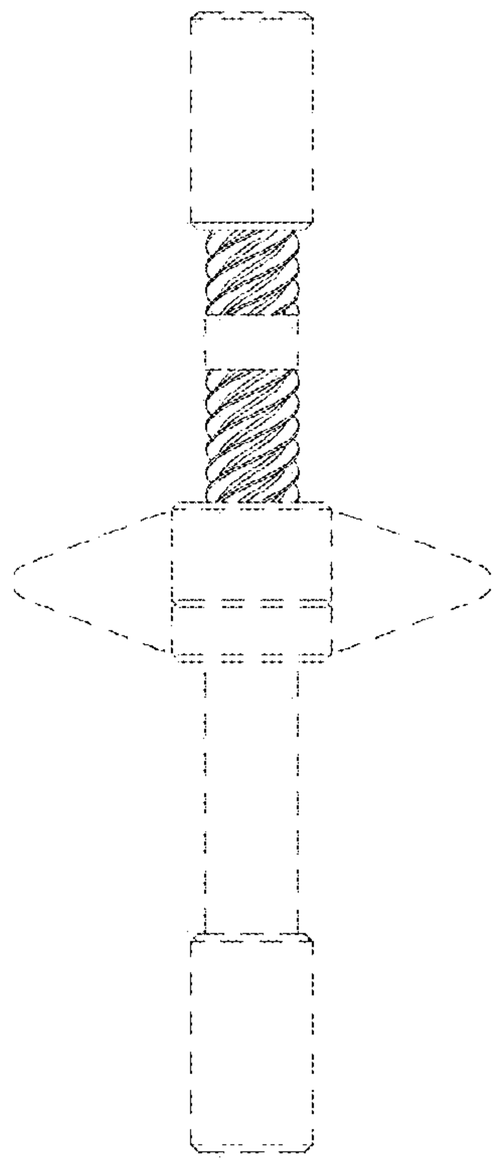

FIG.26

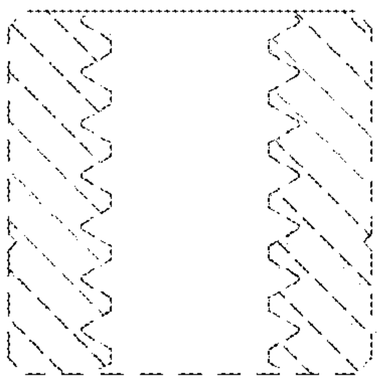

FIG.28