



US00D825311S

(12) **United States Design Patent** (10) **Patent No.:** **US D825,311 S**  
**Xu** (45) **Date of Patent:** **\*\* Aug. 14, 2018**

(54) **MULTI-FUNCTIONAL OSCILLATING TOOL HEAD**

(71) Applicant: **YANGZHOU SHENGYE MACHINERY CO., LTD**, Gaoyou (CN)

(72) Inventor: **Hongming Xu**, Gaoyou (CN)

(73) Assignee: **YANGZHOU SHENGYE MACHINERY CO., LTD**, Gaoyou (CN)

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

(21) Appl. No.: **29/585,502**

(22) Filed: **Nov. 24, 2016**

(51) **LOC (11) Cl.** ..... **08-05**

(52) **U.S. Cl.**  
USPC ..... **D8/105**

(58) **Field of Classification Search**  
USPC ..... D3/207, 208, 210, 318; D7/318, D7/354-361, 393-397, 401.2, 533-537, D7/622, 623; D8/12, 14, 16-19, 34, 51, D8/52, 56, 75, 76, 77, 78, 79, 80, 81, 82, D8/83, 94, 98, 99, 101, 102, 103, 104, D8/105, 107, 300, 302, 303, 305, 306, D8/307, 308, 309, 310, 315, 318, 321, D8/349, 354, 355, 356, 358, 359, 382, D8/391, 392.1, 393, 394, 396.2, 397, 398, D8/402, 503, 505, 507, 509, 510, 511, D8/523, 524, 525, 526, 527, 528, 529, D8/530, 531, 533, 538, 541, 542, 549, D8/500, 590, 605, 608, 629, 672, 703, D8/900, 46, 47, 35, 499; D15/135; D32/46-49; D9/434, 443, 455, 907  
(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

D176,974 S \* 2/1956 Brown ..... D8/17  
D182,423 S \* 4/1958 Lyndon ..... D8/18  
(Continued)

OTHER PUBLICATIONS

Oscillating Saw Blade: Announced Dec. 3, 2016 [online]. Site Visited [Feb. 8, 2018]. Available from URL: [https://www.amazon.com/Universal-Oscillating-Multimaster-Craftsman-Milwaukee/dp/B01LN3X18U/ref=sr\\_1\\_3?ie=UTF8&qid=1518816726&sr=8-3&keywords=10+Metal%2FWood+Universal+Quick+Release+Oscillating.\\*](https://www.amazon.com/Universal-Oscillating-Multimaster-Craftsman-Milwaukee/dp/B01LN3X18U/ref=sr_1_3?ie=UTF8&qid=1518816726&sr=8-3&keywords=10+Metal%2FWood+Universal+Quick+Release+Oscillating.*)

(Continued)

*Primary Examiner* — Jennifer Rivard

*Assistant Examiner* — Catherine S Posthauer

(74) *Attorney, Agent, or Firm* — Gokalp Bayramoglu

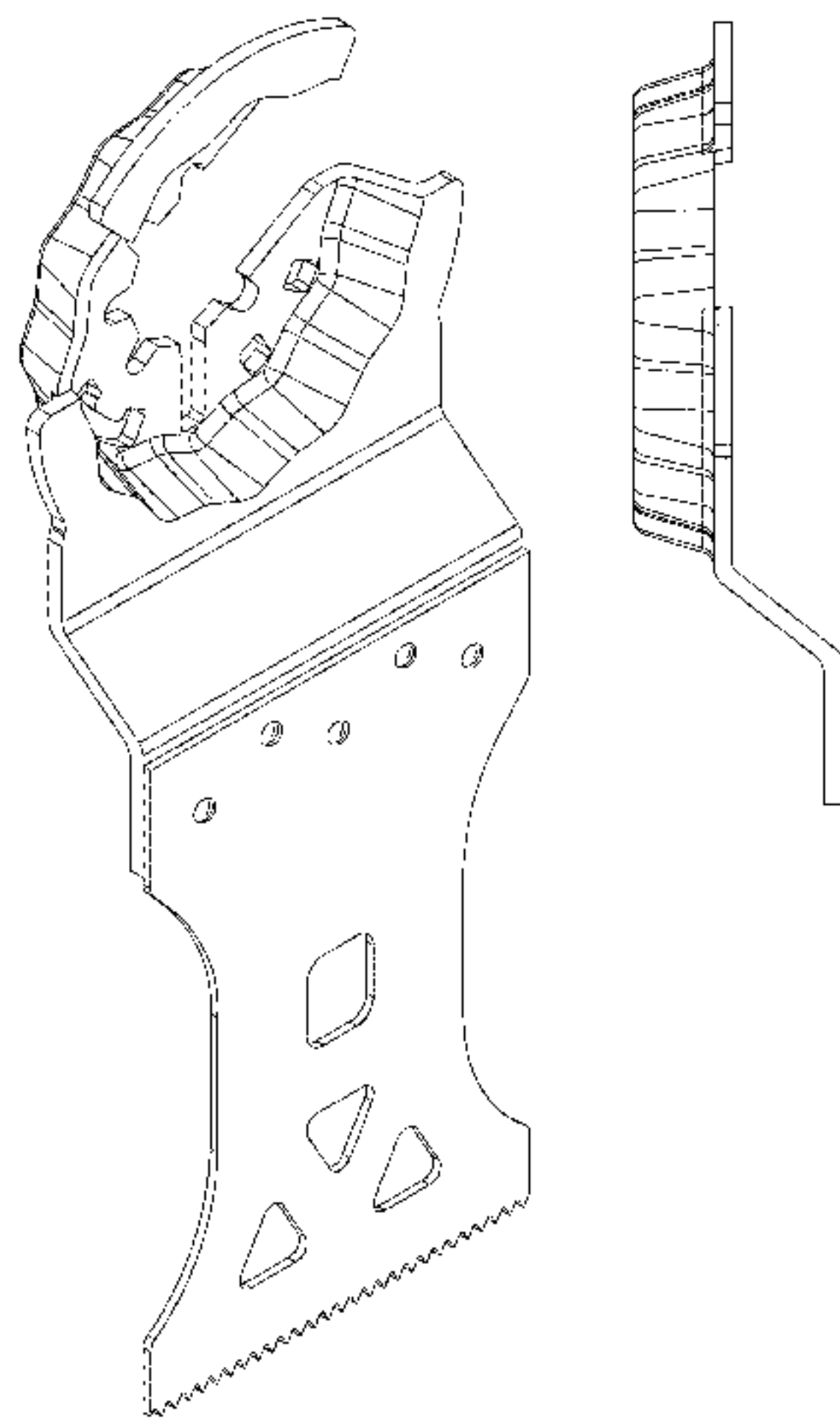
(57) **CLAIM**

The ornamental design for a multi-functional oscillating tool head, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of a multi-functional oscillating tool head showing the new design;  
FIG. 2 is the other perspective view of a multi-functional oscillating tool head showing the new design;  
FIG. 3 is a top view of the multi-functional oscillating tool head;  
FIG. 4 is a bottom view of the multi-functional oscillating tool head;  
FIG. 5 is a left side view of the multi-functional oscillating tool head;  
FIG. 6 is a right side view of the multi-functional oscillating tool head;  
FIG. 7 is a front view of the multi-functional oscillating tool head; and,  
FIG. 8 is a rear view of the multi-functional oscillating tool head.

**1 Claim, 8 Drawing Sheets**



(58) Field of Classification Search

CPC ..... B65B 69/0008; B65B 69/0033; B65B 69/005; B25F 1/00; B25F 1/02; B25F 1/04; B25F 3/00; B26B 11/00; B26B 23/00; B08B 1/00; B08B 3/026; B08B 7/02; B63B 2059/082; B63B 59/06; B63B 59/08; A45C 11/324; B25G 1/085; Y10T 279/3406

See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

D227,651 S \* 7/1973 Sharff ..... D8/17  
D268,473 S \* 4/1983 Rust ..... D8/17  
D306,124 S \* 2/1990 Hoilien ..... D8/18  
D309,411 S \* 7/1990 Strock ..... D8/17  
D311,667 S \* 10/1990 Cholagh ..... D8/18  
D329,788 S \* 9/1992 Andrew ..... D8/17  
D436,311 S \* 1/2001 Edvardsson ..... D8/382  
D445,320 S \* 7/2001 Abbott ..... D32/46  
D461,107 S \* 8/2002 Pitt ..... D8/17  
D486,706 S \* 2/2004 Gobel ..... D8/14  
D548,552 S \* 8/2007 Elkaim ..... F41A 35/00  
D22/199  
D562,517 S \* 2/2008 Henke ..... D32/46  
D598,723 S \* 8/2009 Cheng ..... D8/17  
D601,393 S \* 10/2009 Cui ..... D8/17  
7,818,843 B2 \* 10/2010 Kinskey ..... B25F 1/02  
15/105

D666,883 S \* 9/2012 Howard ..... F41A 35/00  
D8/19  
D686,486 S \* 7/2013 Densmore ..... D8/349  
D688,348 S \* 8/2013 Christenson ..... D22/117  
D694,598 S \* 12/2013 Davidian ..... D8/20  
D700,675 S \* 3/2014 Seeds ..... D22/118  
D726,517 S \* 4/2015 Fischer ..... D8/17  
D732,932 S \* 6/2015 Ng ..... D8/354  
9,815,187 B2 \* 11/2017 Kozak ..... B25F 3/00  
2011/0316241 A1 \* 12/2011 Zhang ..... B23D 61/006  
279/143  
2014/0033880 A1 \* 2/2014 Hill ..... B25B 13/04  
81/121.1  
2015/0198405 A1 \* 7/2015 Keng ..... F41A 35/00  
42/108  
2017/0066118 A1 \* 3/2017 Berman ..... B25F 1/04  
2018/0037518 A1 \* 2/2018 Willis ..... C06B 21/0083

OTHER PUBLICATIONS

Oscillating Multi Tool Bi Metal Scraper Blades Accessory Sets: Announced Nov. 21, 2017. Available from URL: [https://www.amazon.com/XXGO-Universal-Oscillating-Accessories-Scraping/dp/B075CJ5VWC/ref=sr\\_1\\_4?s=hi&ie=UTF8&qid=1518816910&sr=1-4&keywords=Universal+Oscillating+Multi+Tool+Bi+Metal+Scraper+Blades.\\*](https://www.amazon.com/XXGO-Universal-Oscillating-Accessories-Scraping/dp/B075CJ5VWC/ref=sr_1_4?s=hi&ie=UTF8&qid=1518816910&sr=1-4&keywords=Universal+Oscillating+Multi+Tool+Bi+Metal+Scraper+Blades.*)  
Dremel Universal Quick Fit Cutting Assortment Pack: Announced Mar. 15, 2016 [online]. Site Visited [Feb. 8, 2018]. Available from Internet URL: [https://www.amazon.com/dp/B00D3RR3C0?tag=heapertools-20.\\*](https://www.amazon.com/dp/B00D3RR3C0?tag=heapertools-20.*)

\* cited by examiner

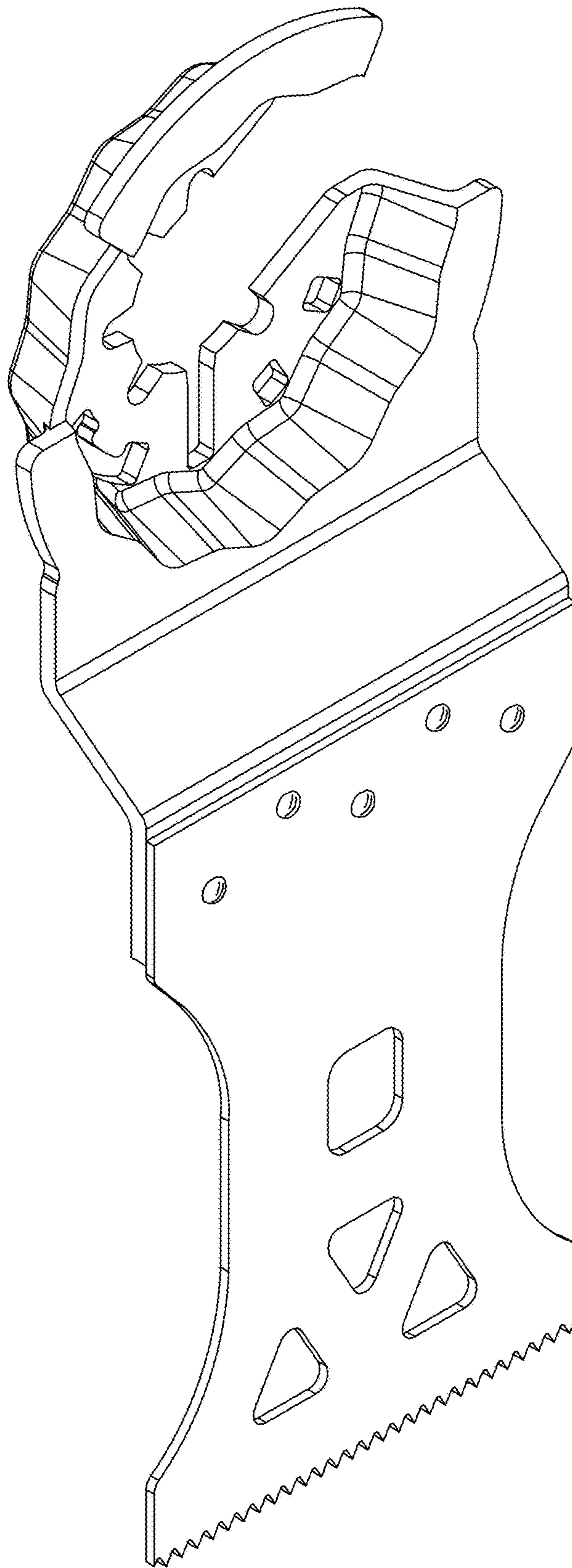


FIG.1

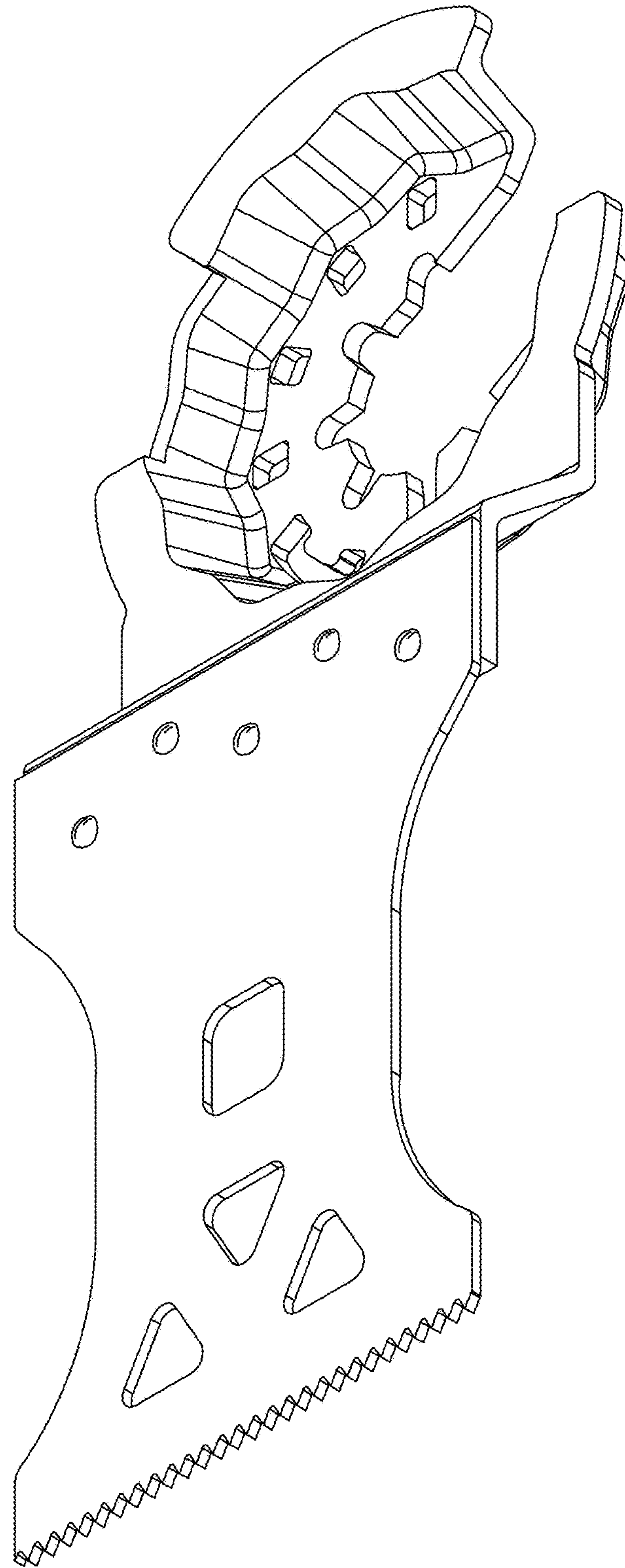


FIG.2

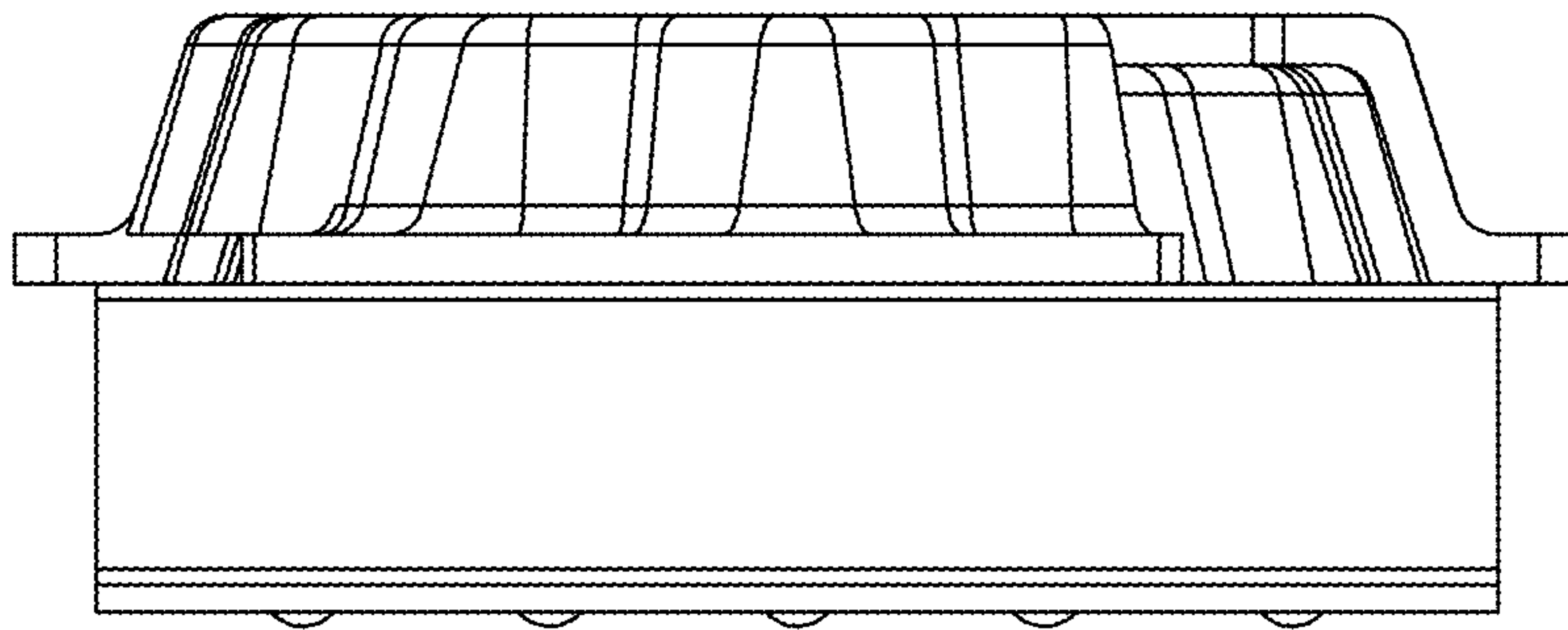


FIG.3

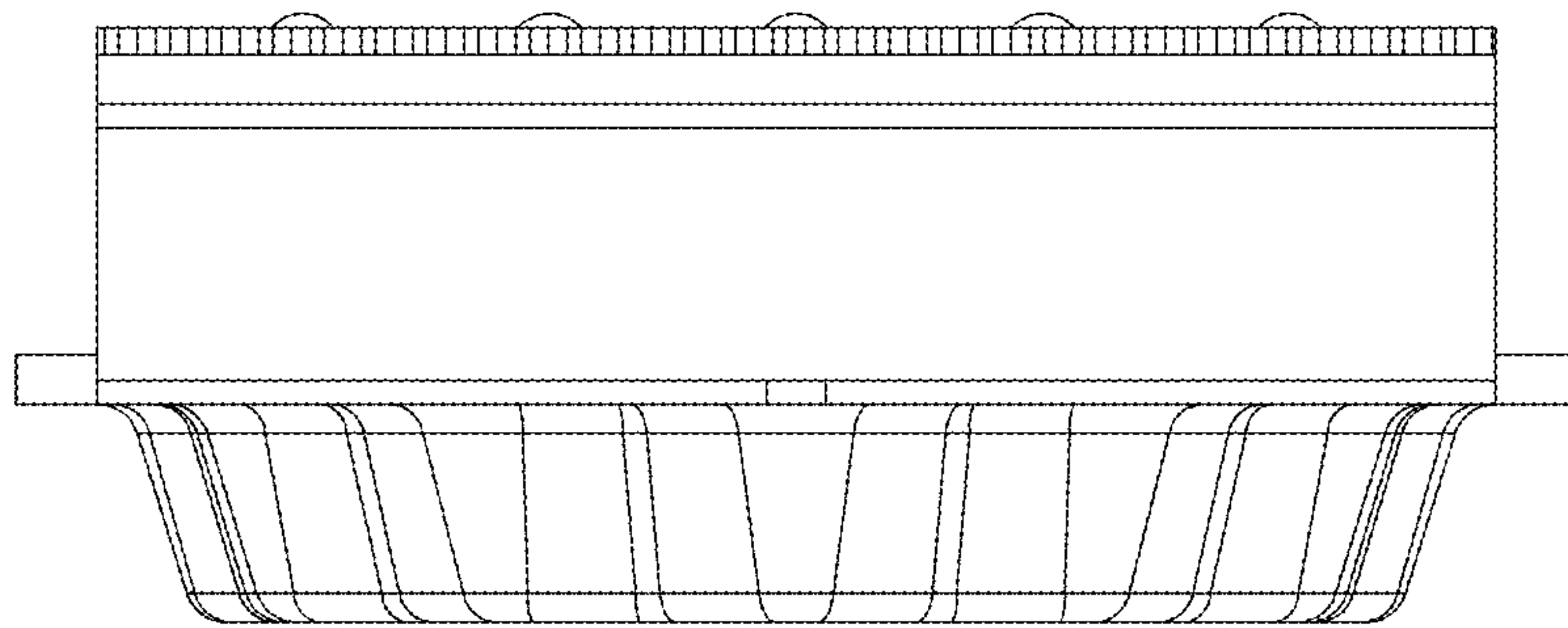


FIG.4

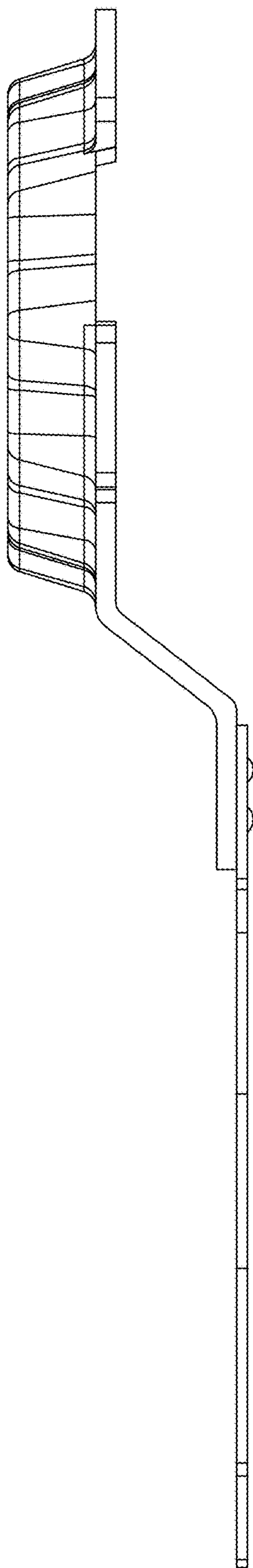


FIG.5

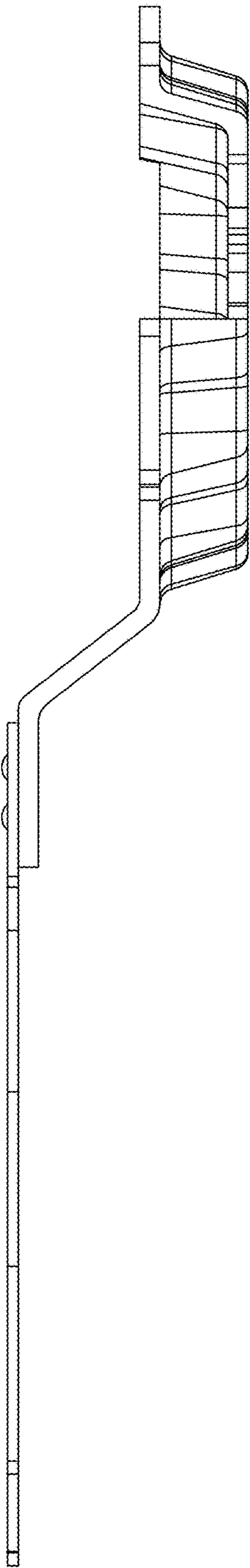


FIG.6

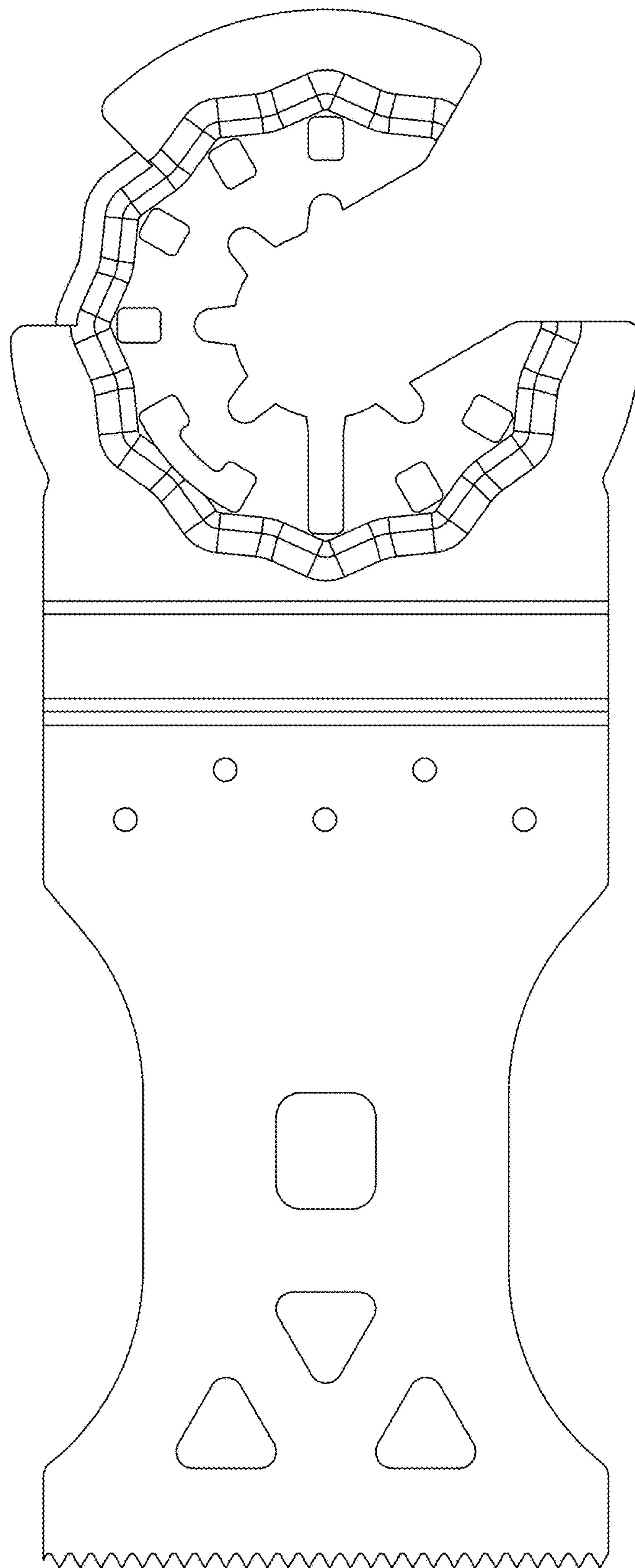


FIG.7

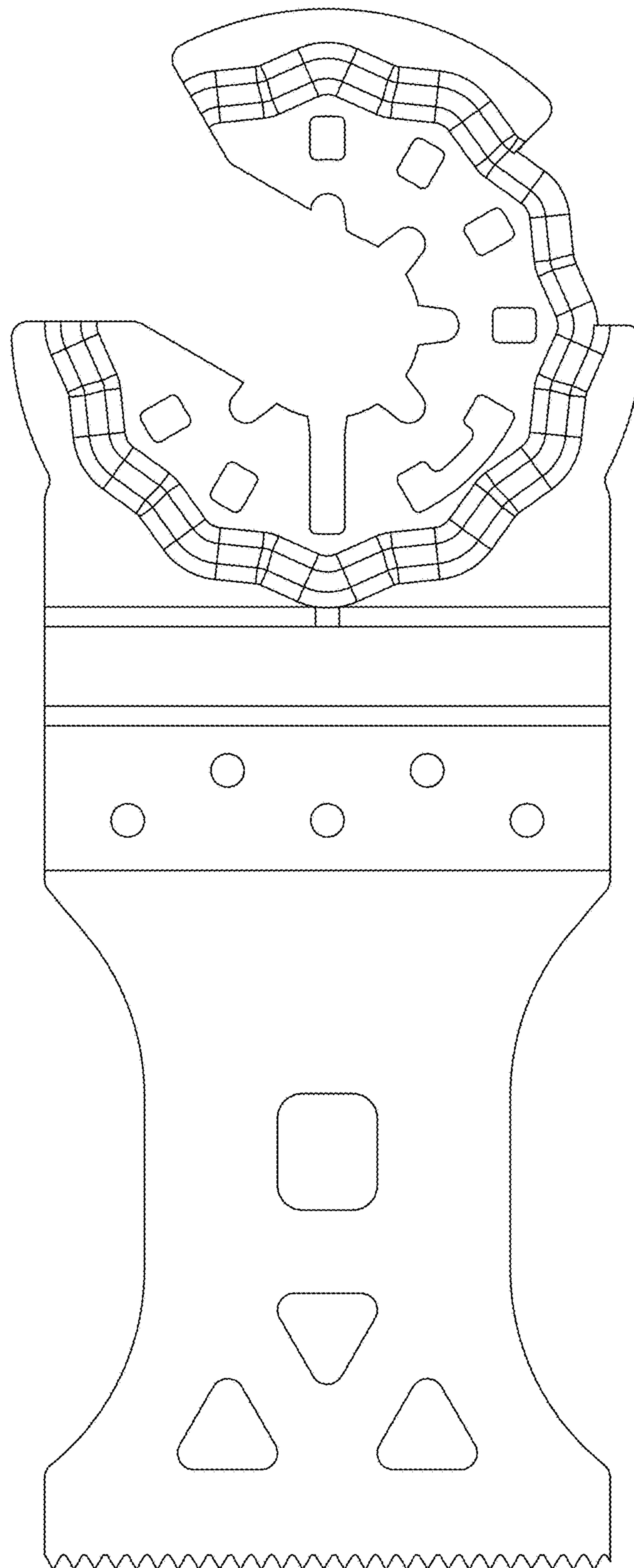


FIG.8