



US00D819745S

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

(10) **Patent No.:** **US D819,745 S**  
(45) **Date of Patent:** **\*\* Jun. 5, 2018**

(54) **REPULSOR GEAR**  
(71) Applicant: **Disney Enterprises, Inc.**, Burbank, CA (US)  
(72) Inventors: **Michael Paul Goslin**, Sherman Oaks, CA (US); **Katherine M. Bassett**, Pasadena, CA (US); **John Peter Fiscella**, Valencia, CA (US); **James K. Stobar**, Los Angeles, CA (US); **Joseph Logan Olson**, Eagle Rock, CA (US); **Paulo Kang**, Burbank, CA (US); **Philippe Putzeys**, Los Angeles, CA (US)

4,756,525 A \* 7/1988 Whitsitt ..... A63B 21/065 482/105  
4,905,991 A \* 3/1990 Alston ..... A63B 21/065 441/59  
4,923,418 A \* 5/1990 Hoffman ..... A63B 21/065 441/57  
D373,803 S \* 9/1996 Winans ..... D21/684  
7,090,624 B1 \* 8/2006 Chrishon ..... A63B 21/0601 482/105  
D589,462 S \* 3/2009 Tupinier ..... D13/168  
D625,376 S \* 10/2010 Marabellas ..... D21/683  
9,329,716 B2 \* 5/2016 Parham ..... G06F 3/0304  
D772,978 S \* 11/2016 Parham ..... D13/173  
D772,986 S \* 11/2016 Chen ..... D14/203.3  
D780,807 S \* 3/2017 Chen ..... D14/203.3

\* cited by examiner

(73) Assignee: **Disney Enterprises, Inc.**, Burbank, CA (US)

*Primary Examiner* — Prabhakar G Deshmukh  
(74) *Attorney, Agent, or Firm* — Patterson + Sheridan, LLP

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

(21) Appl. No.: **29/543,015**

(57) **CLAIM**

(22) Filed: **Oct. 20, 2015**

The ornamental design for a repulsor gear, as shown and described.

(51) **LOC (11) Cl.** ..... **21-01**

(52) **U.S. Cl.**  
USPC ..... **D21/325**; D21/333; D21/326

**DESCRIPTION**

(58) **Field of Classification Search**  
USPC ..... D21/314, 333, 453, 468, 585, 658, 420, D21/811, 562, 683, 684, 694; 273/263, 273/259, 277, 148 R, 452; 472/133, 134; 463/1, 46, 49, 47.2  
CPC ..... A63B 21/005; A63B 21/02; A63B 23/00; A63B 21/065  
See application file for complete search history.

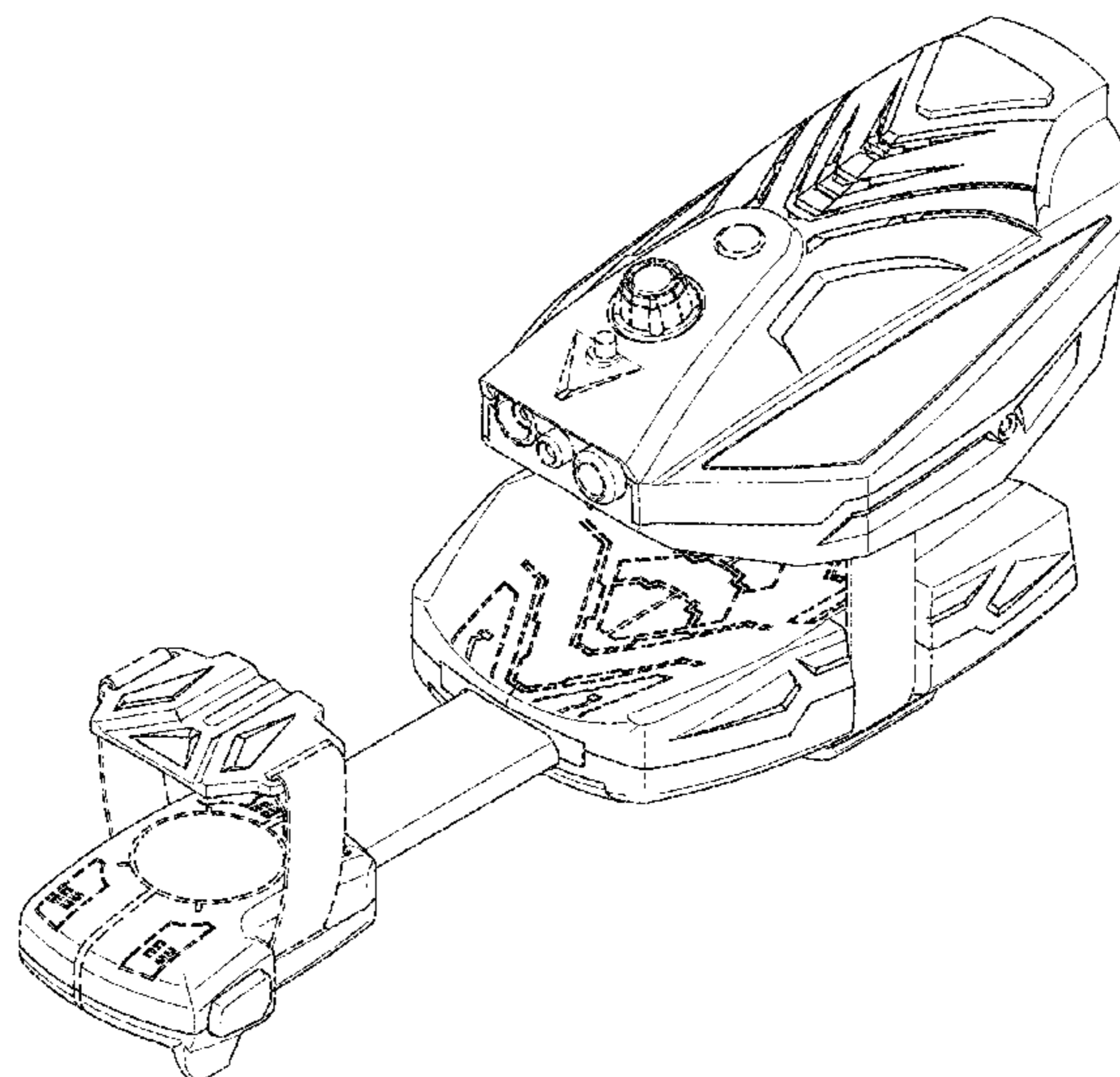
FIG. 1 is a top front perspective view of a repulsor gear showing our new design;  
FIG. 2 is a bottom rear perspective view thereof;  
FIG. 3 is another top front perspective view thereof;  
FIG. 4 is another bottom rear perspective view thereof;  
FIG. 5 a front elevational view thereof;  
FIG. 6 is a right side elevational view thereof;  
FIG. 7 is a rear elevational view thereof;  
FIG. 8 is a left side elevational view thereof;  
FIG. 9 is a top plan view thereof; and,  
FIG. 10 is a bottom plan view thereof.  
The portions illustrated in broken lines form no part of the claimed design.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

1,729,209 A \* 9/1929 Curtice ..... A63B 21/065 482/105  
D278,455 S \* 4/1985 Nosek ..... D21/683

**1 Claim, 10 Drawing Sheets**



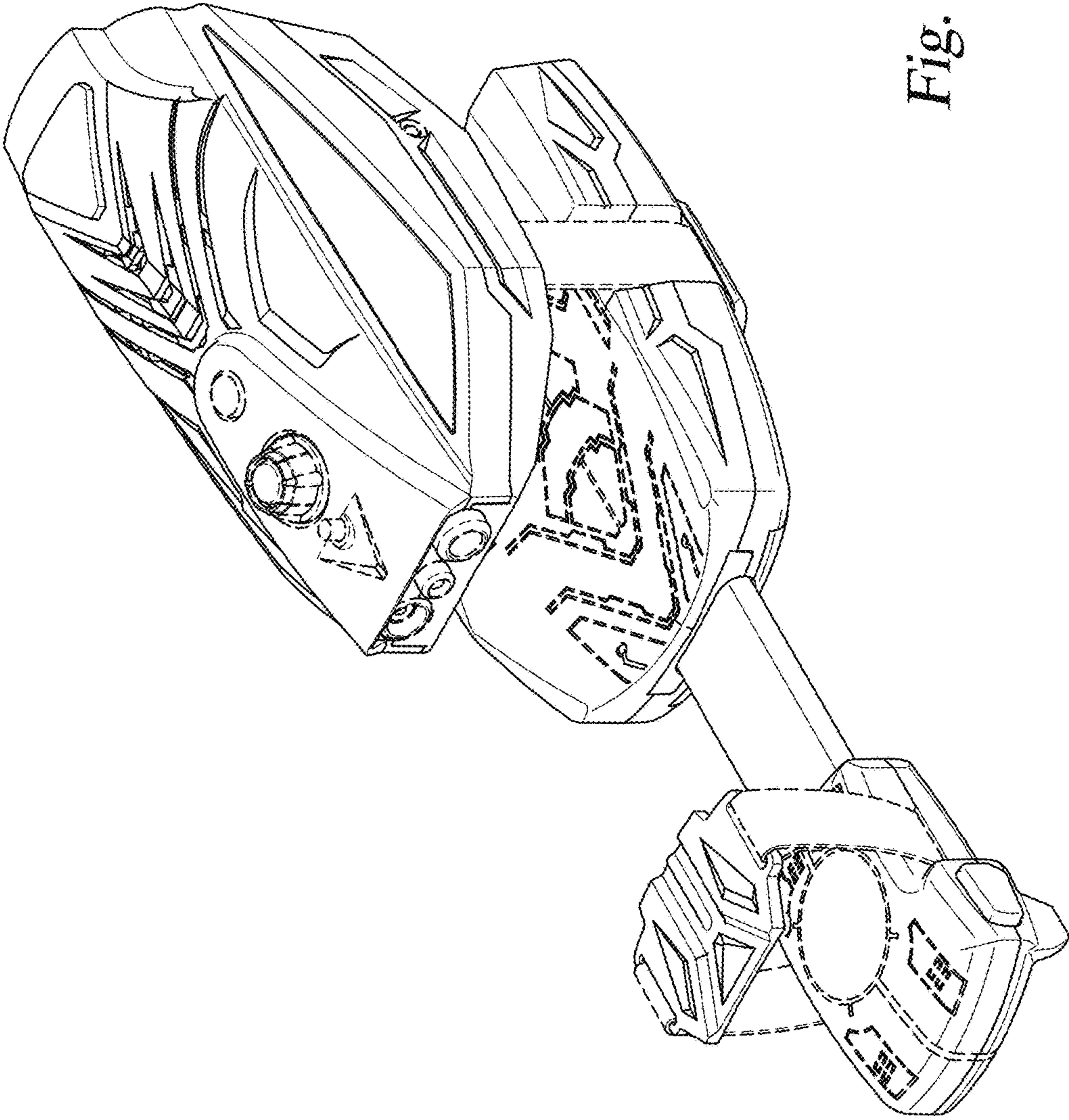


Fig. 1

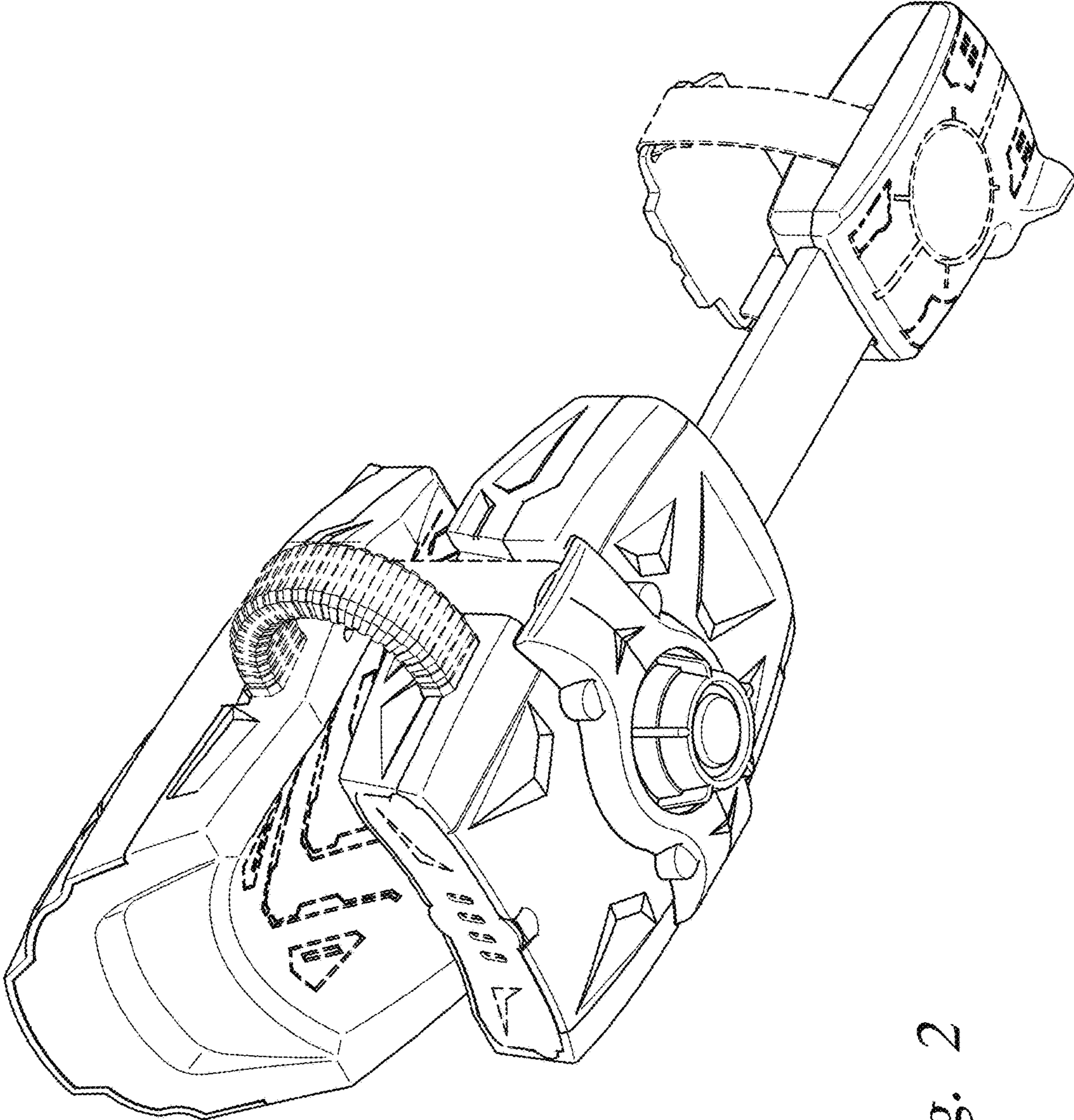


Fig. 2

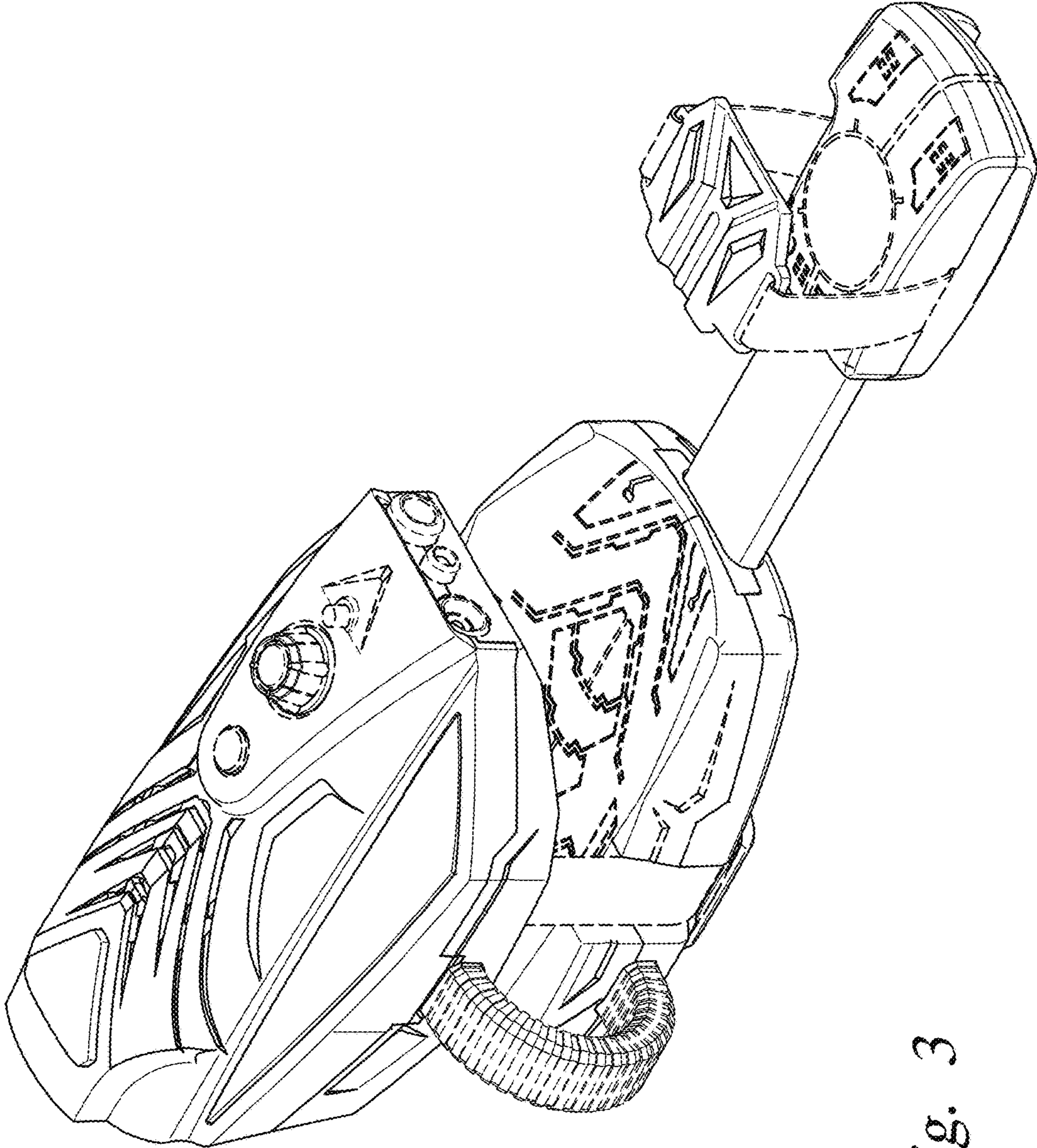


Fig. 3

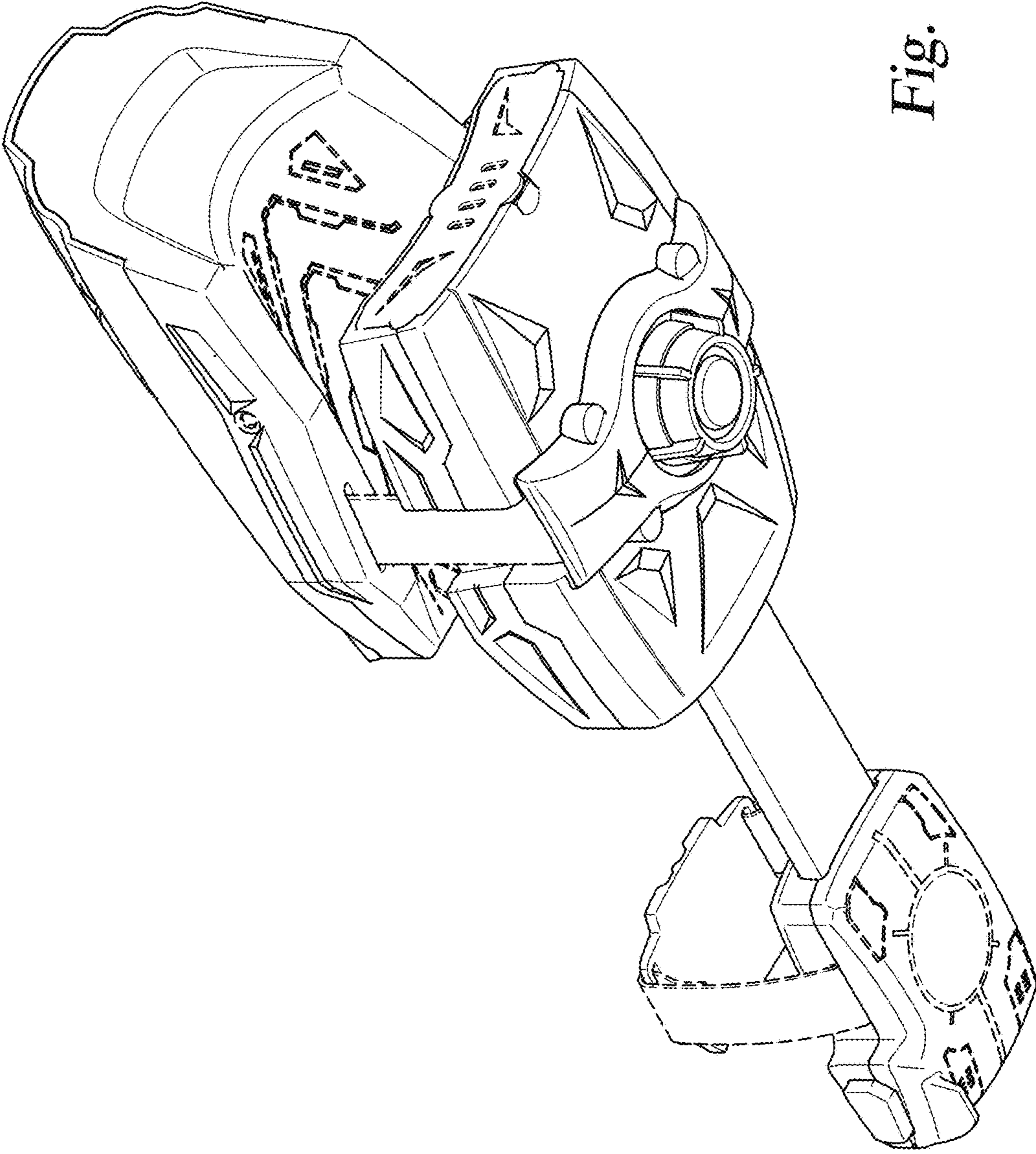
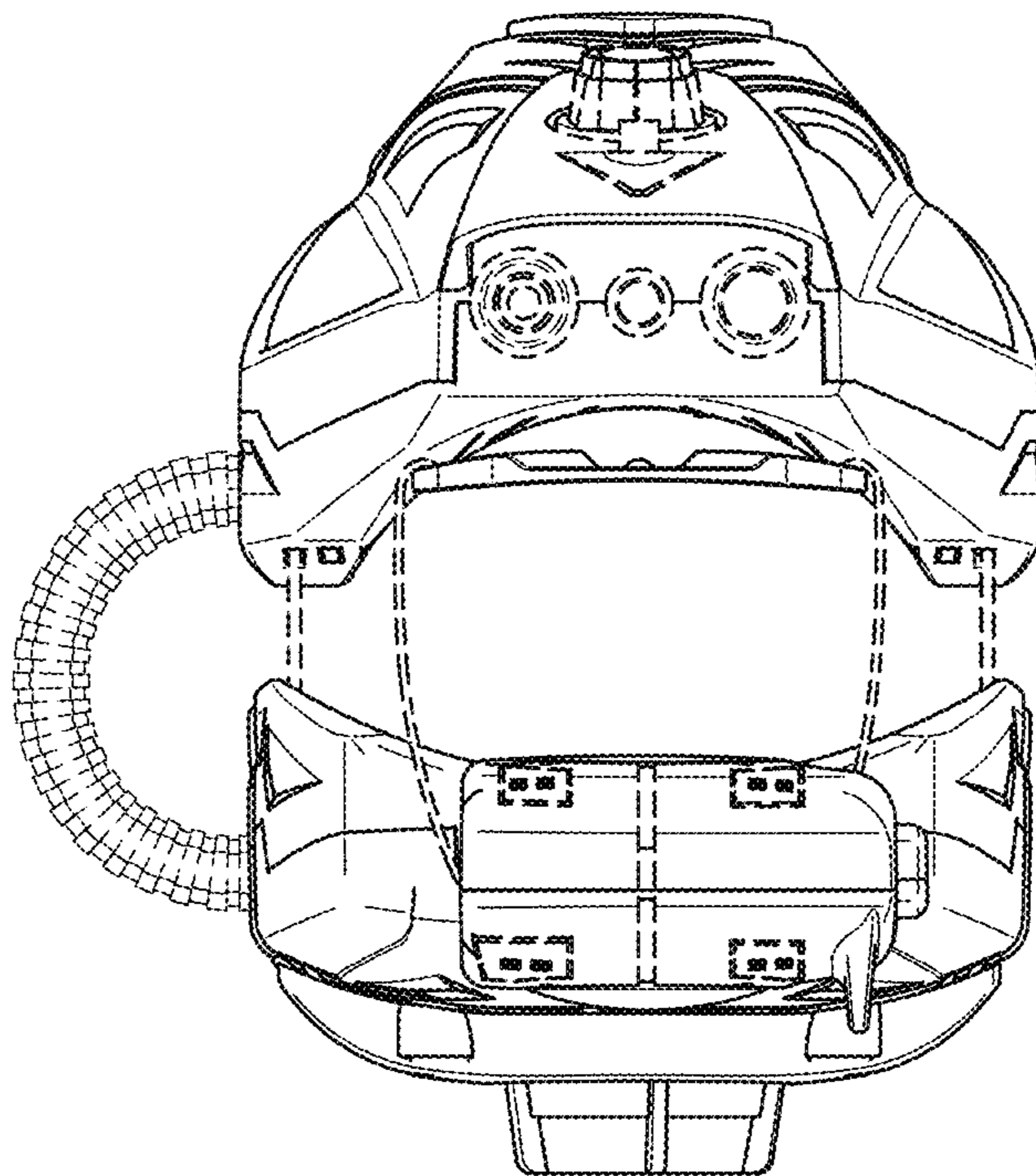
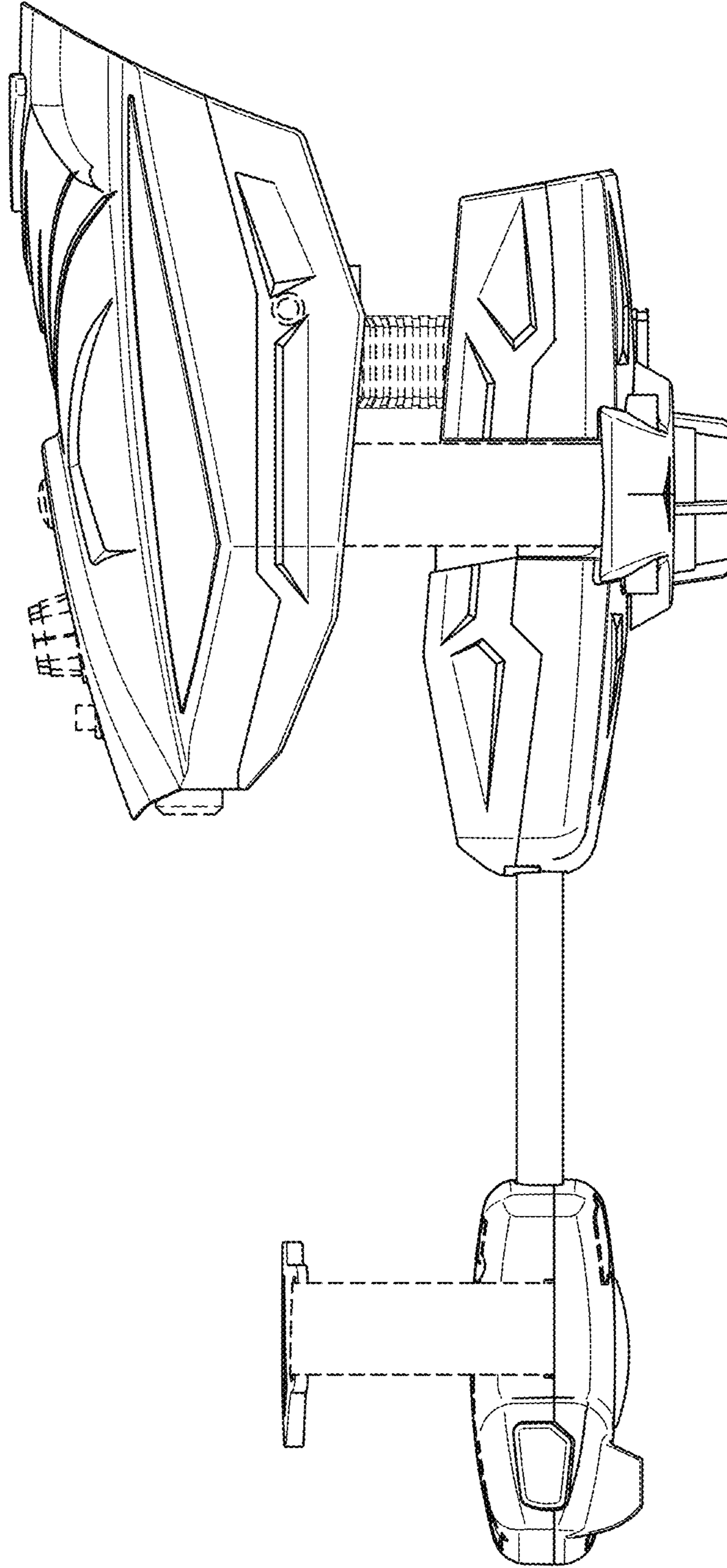


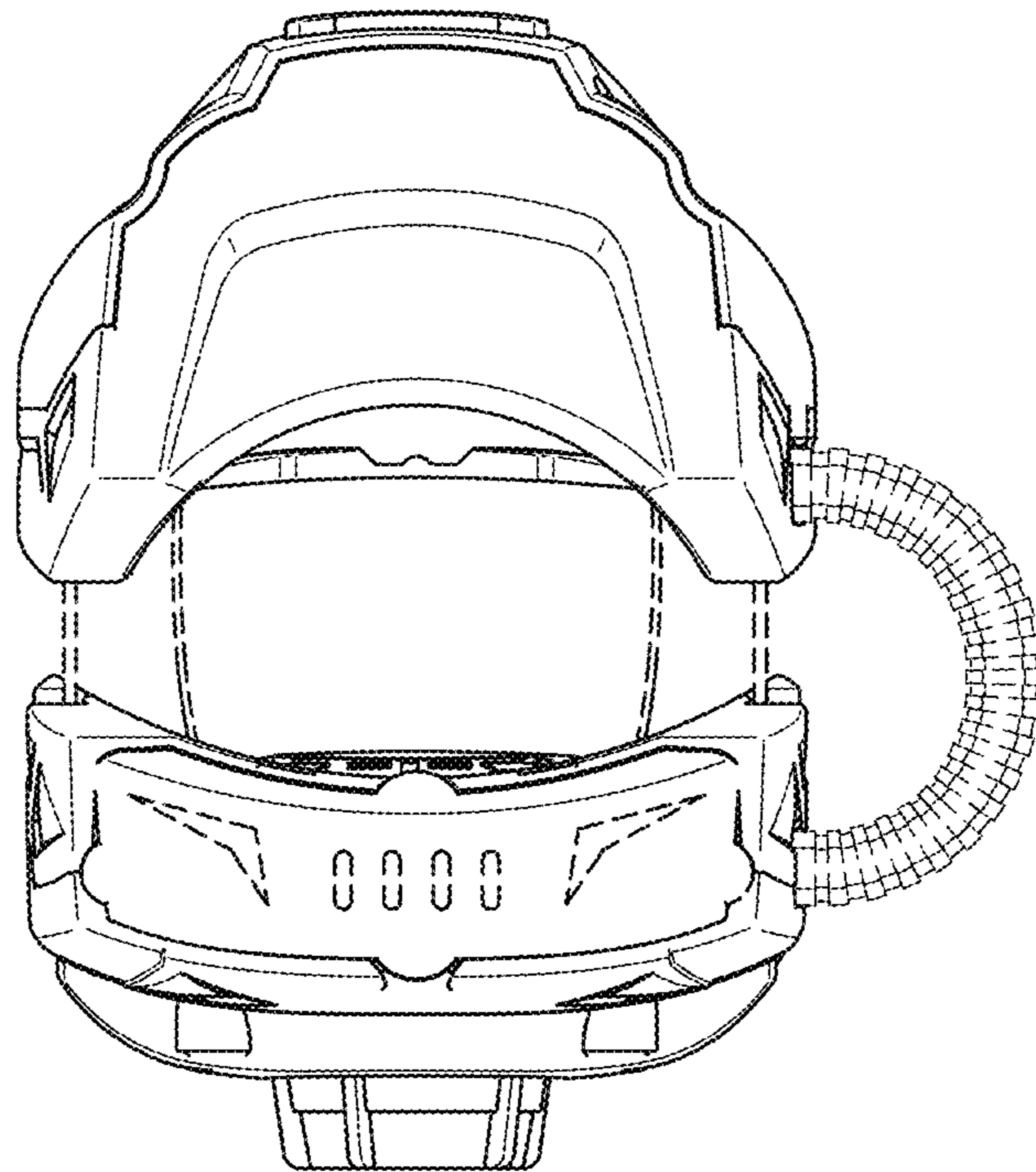
Fig. 4



*Fig. 5*

Fig. 6

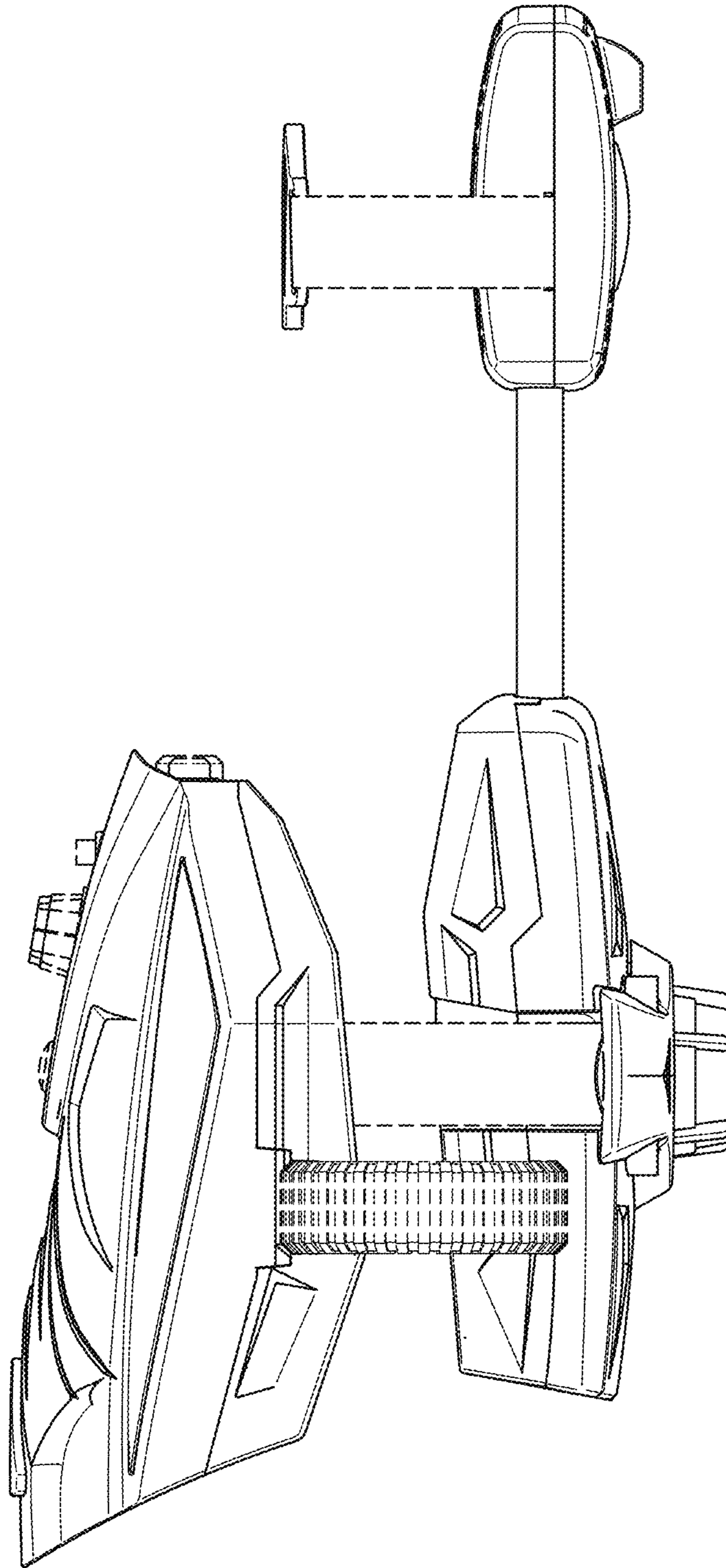


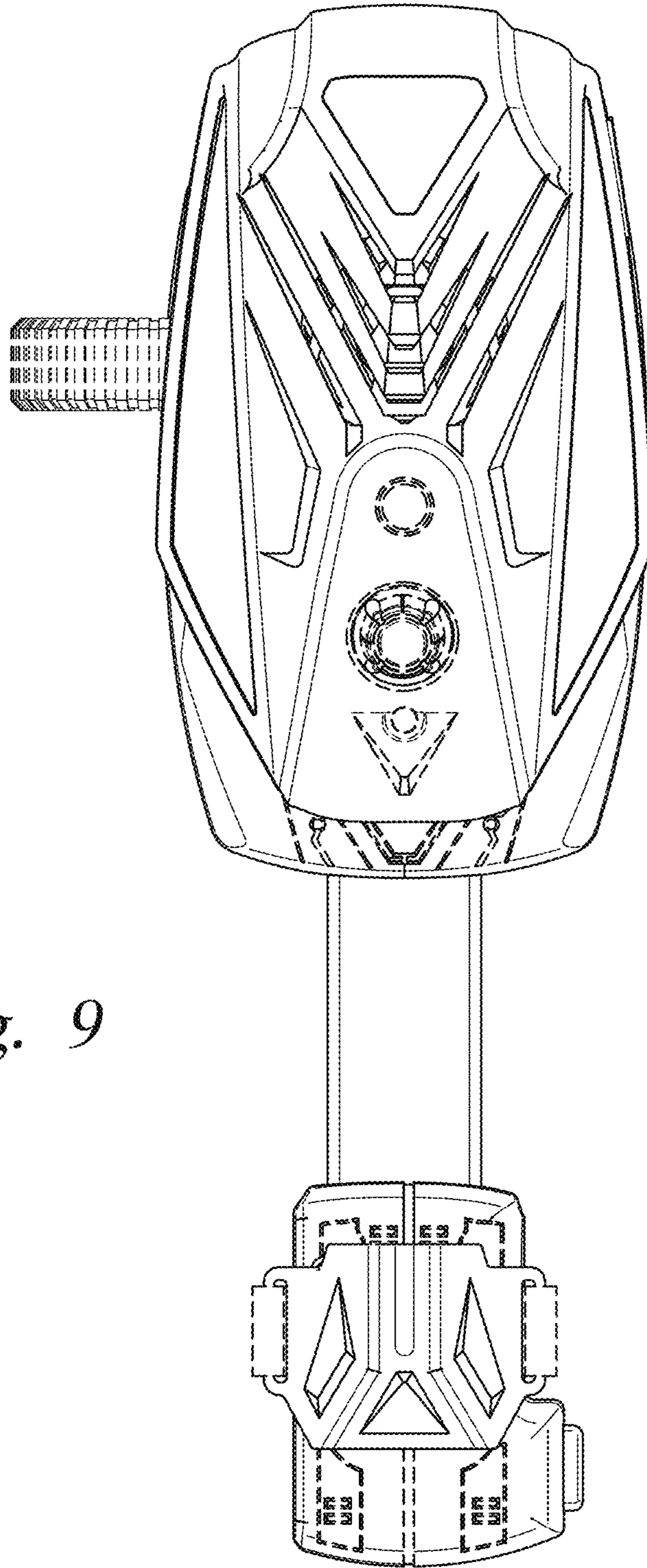


*Fig. 7*



Fig. 8





*Fig. 9*

*Fig. 10*

