US00D488093S

(12) United States Design Patent

Lindemann et al.

(10) Patent No.: US D488,093 S
(45) Date of Patent: ** Apr. 6, 2004

(54) **MARS EXPLORATION ROVER ATHENA**

(75) Inventors: **Randel Lindemann**, Tujunga, CA (US); **Richard A. Rainen**, Santa Clarita, CA (US); **Christopher Voorhees**, Altadena, CA (US); **James Stone**, Altadena, CA (US); **Joseph P. Melko**, Glendale, CA (US); **Paul Karlmann**, Redondo Beach, CA (US); **Kobie Boykins**, Los Angeles, CA (US); **Brian Harrington**, Pasadena, CA (US); **Lawrence Lee**, Diamond Bar, CA (US); **Jason Suchman**, Pasadena, CA (US); **Satish Krishnan**, Cambridge, MA (US); **Lori Shiraishi**, N. Hollywood, CA (US); **Michael P. Thelen**, La Crescenta, CA (US); **Annette K. Nasif**, La Crescenta, CA (US); **Joseph Vacchione**, Newbury Park, CA (US); **Kevin Burke**, Pasadena, CA (US)

(73) Assignee: **California Institute of Technology**, Pasadena, CA (US)

(**) Term: **14 Years**

(21) Appl. No.: **29/164,833**

(22) Filed: **Jul. 31, 2002**

(51) **LOC (7) Cl.** **12-14**
(52) **U.S. Cl.** **D12/1**
(58) **Field of Search** D12/1–5, 16.1; D21/533, 539; 180/345, 347, 6.5, 6.62, 8.2, 9.32; 246/166; 250/253, 515.1; 280/474; 318/568; 324/245, 326; 348/47, 144; 700/245, 258

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,751,027	A	*	6/1956	McLaughtlin	180/6.5
3,653,455	A	*	4/1972	Hetteen	180/251
3,809,004	A	*	5/1974	Leonheart	114/270
5,174,405	A	*	12/1992	Carra et al.	180/9.32
5,323,867	A	*	6/1994	Griffin et al.	180/22
5,372,211	A	*	12/1994	Wilcox et al.	180/8.2
D413,551	S	*	9/1999	Wilcox et al.	D12/1
6,026,135	A	*	2/2000	McFee et al.	376/159
6,112,843	A	*	9/2000	Wilcox et al.	180/345
D437,255	S	*	2/2001	Bickler et al.	D12/1
6,267,196	B1	*	7/2001	Wilcox et al.	180/347
6,333,631	B1	*	12/2001	Das et al.	324/326
6,488,306	B1	*	12/2002	Shirey et al.	280/474

OTHER PUBLICATIONS

Sojourner Rover, launched on Jul. 1, 1997, http://mars.jpl.nasa.gov/MPF/rover/sojourner2.html.
Fido Rover, prototype tested on Aug. 10, 2002, http://fido.jpl.nasa.gov.
Photographs of a not–for–sale, nonoperational mockup of a rover displayed once at a JPL Open House on May 19, 2001, Pasadena, California.
Sticker distributed for free at JPL Open House, May 19, 2001, Pasadena, California.

* cited by examiner

Primary Examiner—Nelson C. Holtje
(74) *Attorney, Agent, or Firm*—Christie, Parker & Hale, LLP

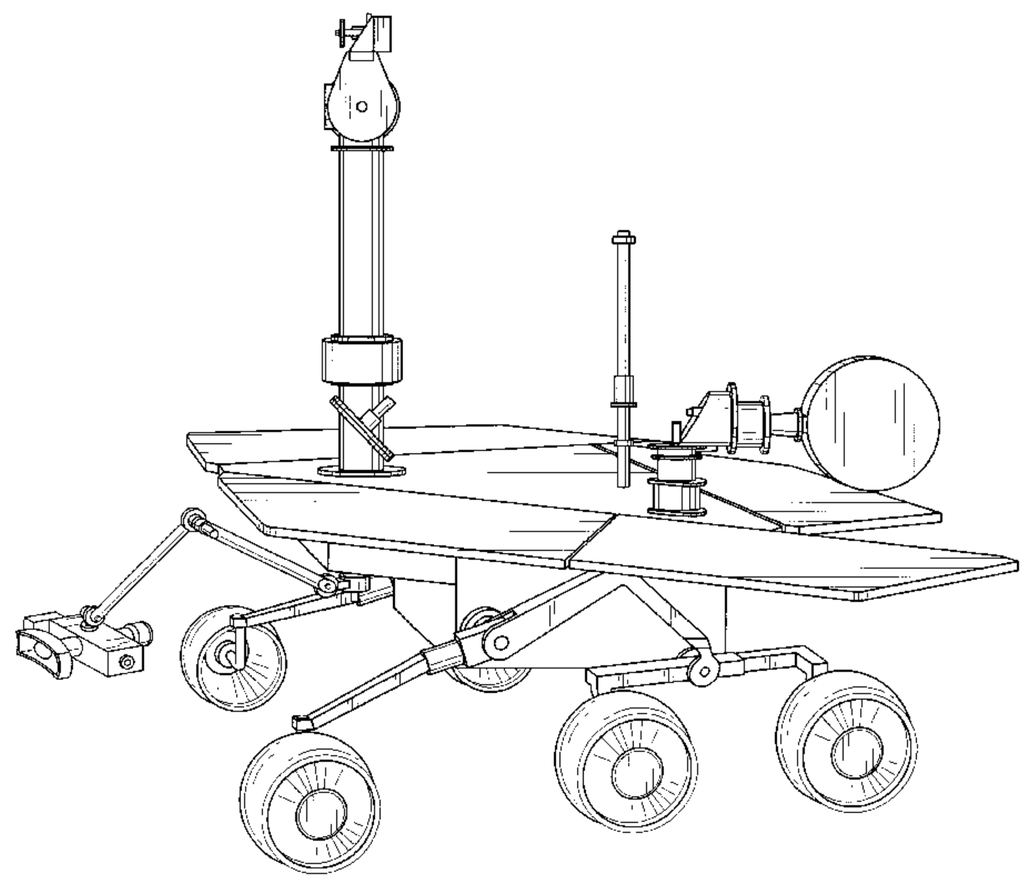
(57) **CLAIM**

The ornamental design for Mars exploration rover Athena, as shown and described.

DESCRIPTION

FIG. **1** is a perspective view of a Mars exploration rover Athena according to our new design;
FIG. **2** is a first side elevational view thereof;
FIG. **3** is a front elevational view thereof;
FIG. **4** is a second side elevational view thereof;
FIG. **5** is a rear elevational view thereof;
FIG. **6** is a top view thereof; and,
FIG. **7** is a bottom view thereof.

1 Claim, 7 Drawing Sheets



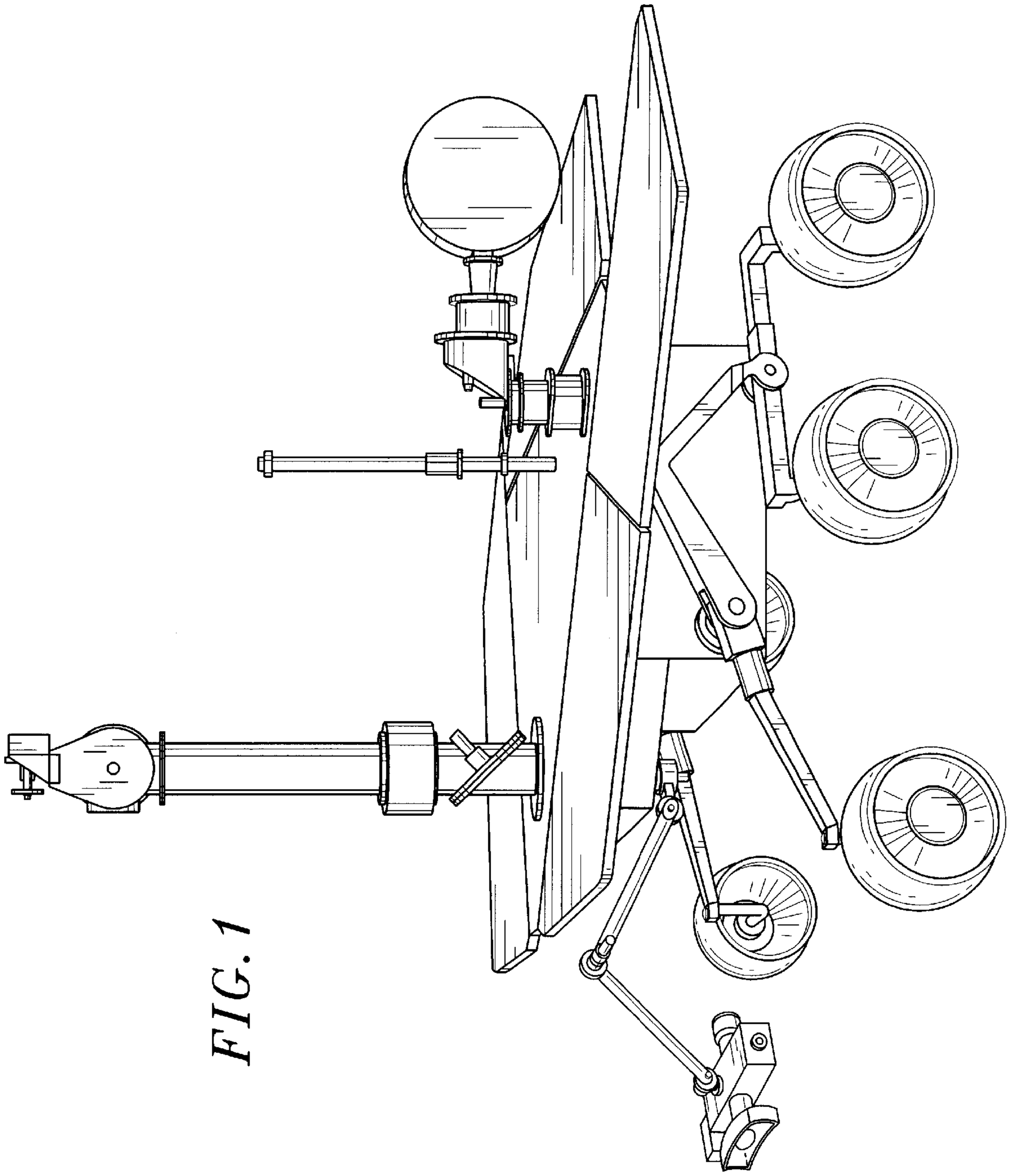


FIG. 1

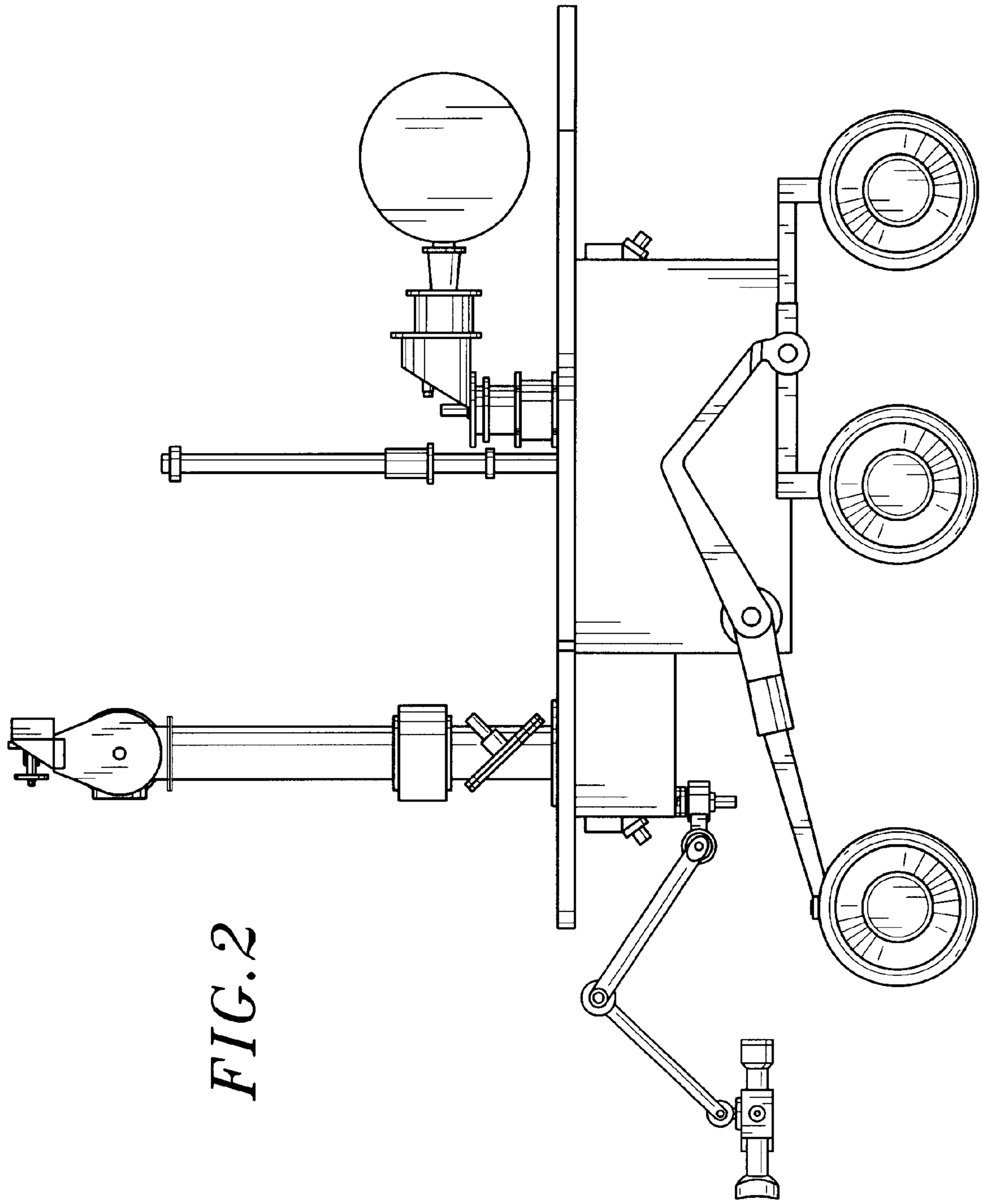


FIG. 2

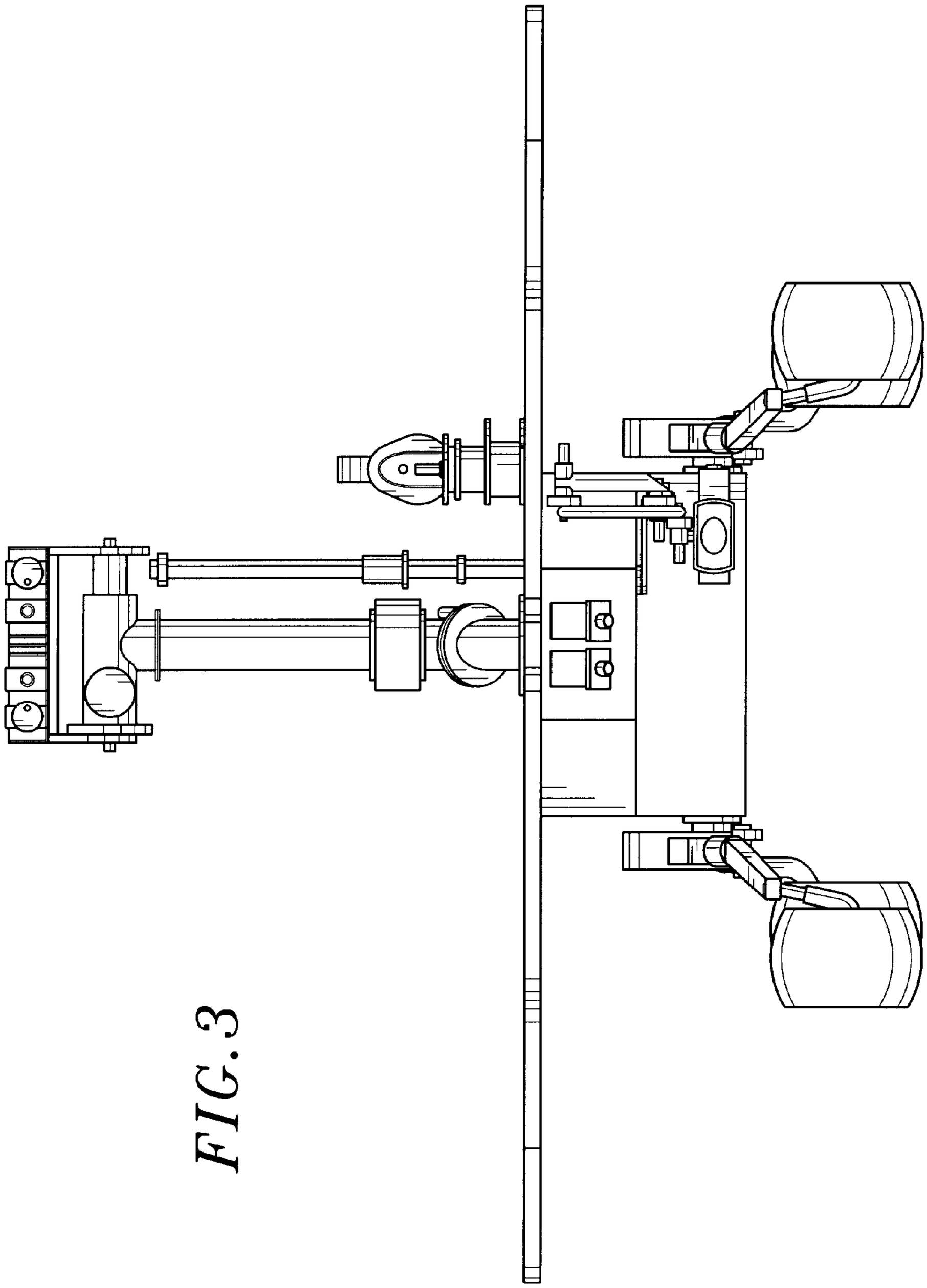


FIG. 3

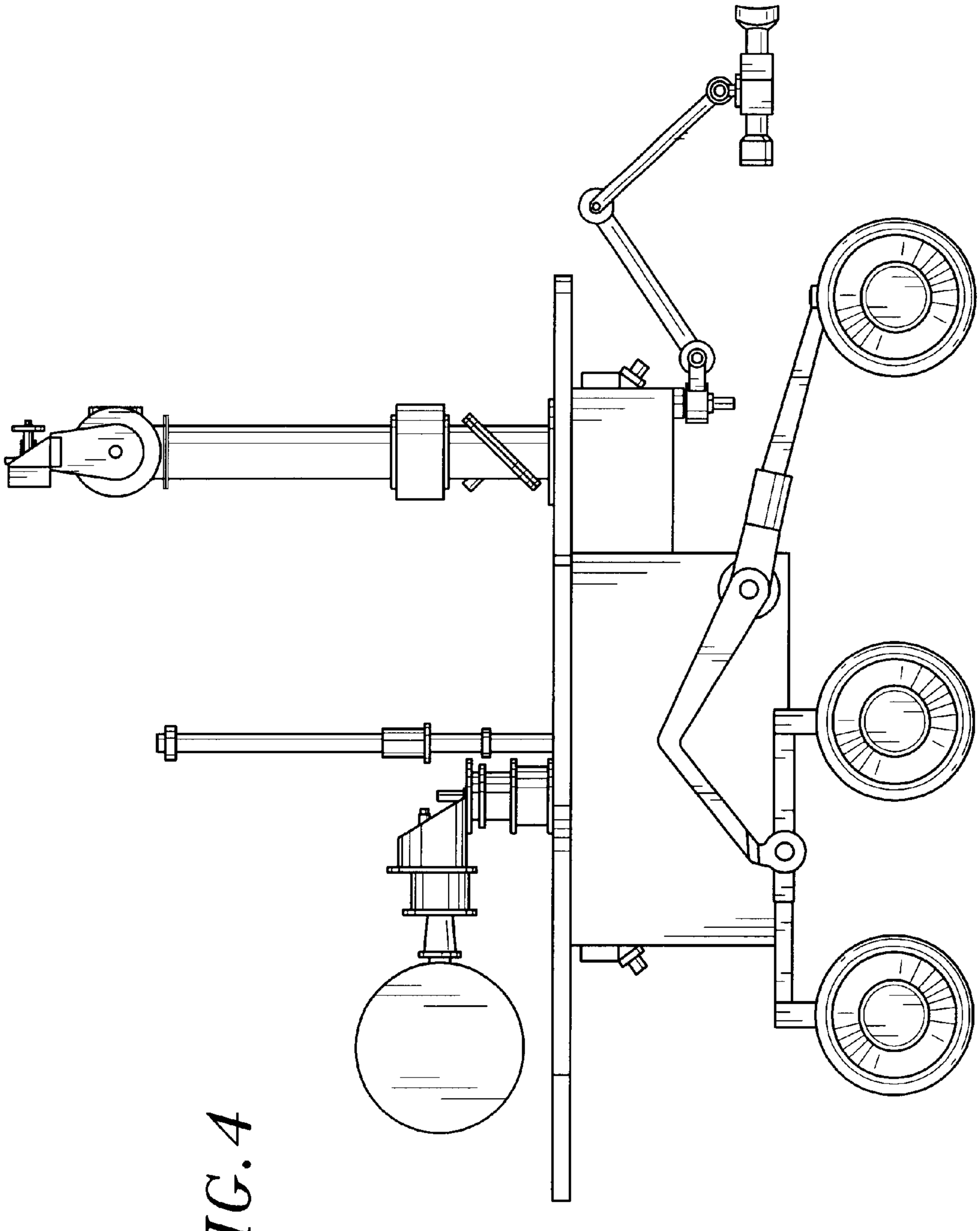


FIG. 4

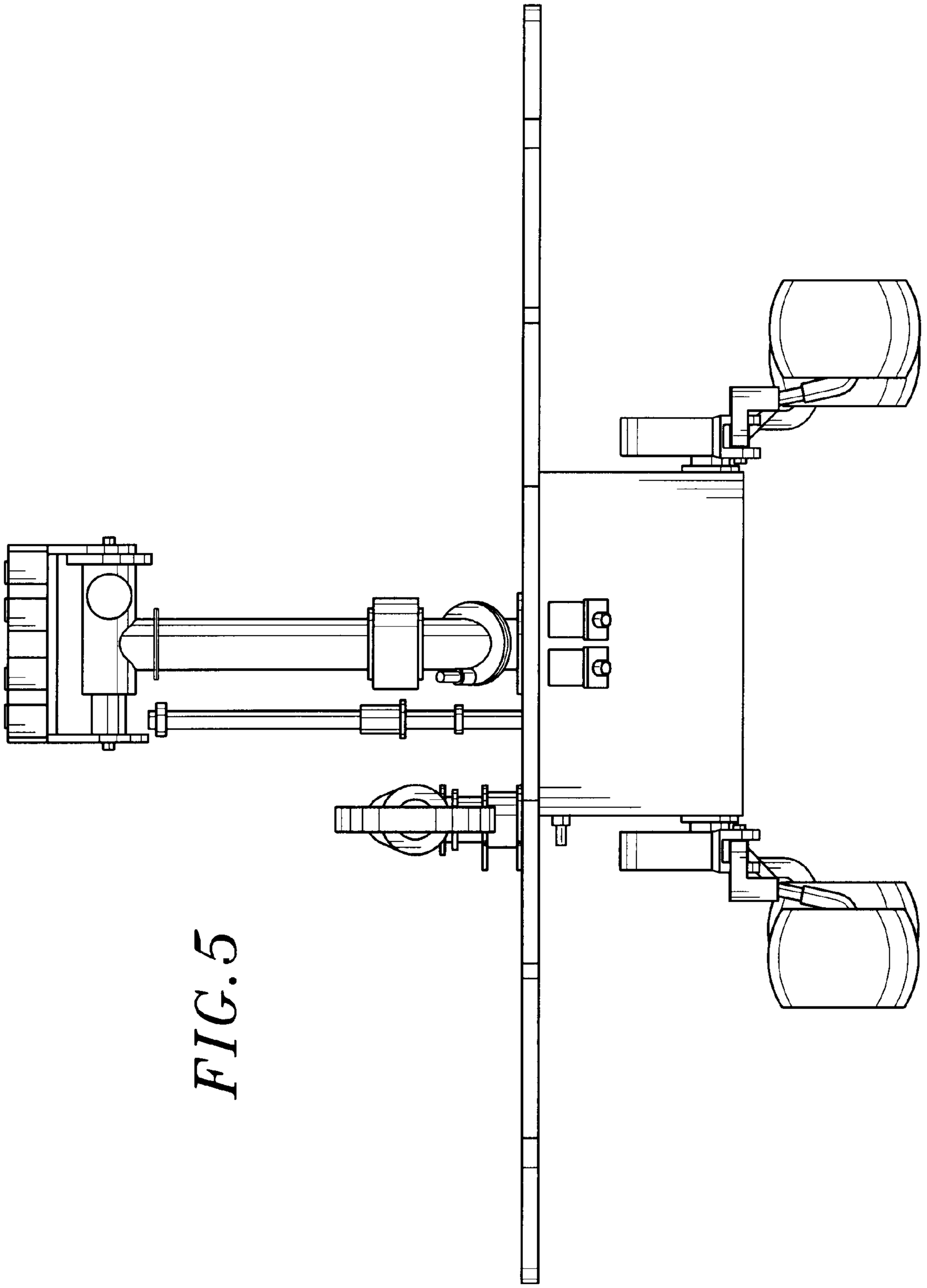


FIG.5

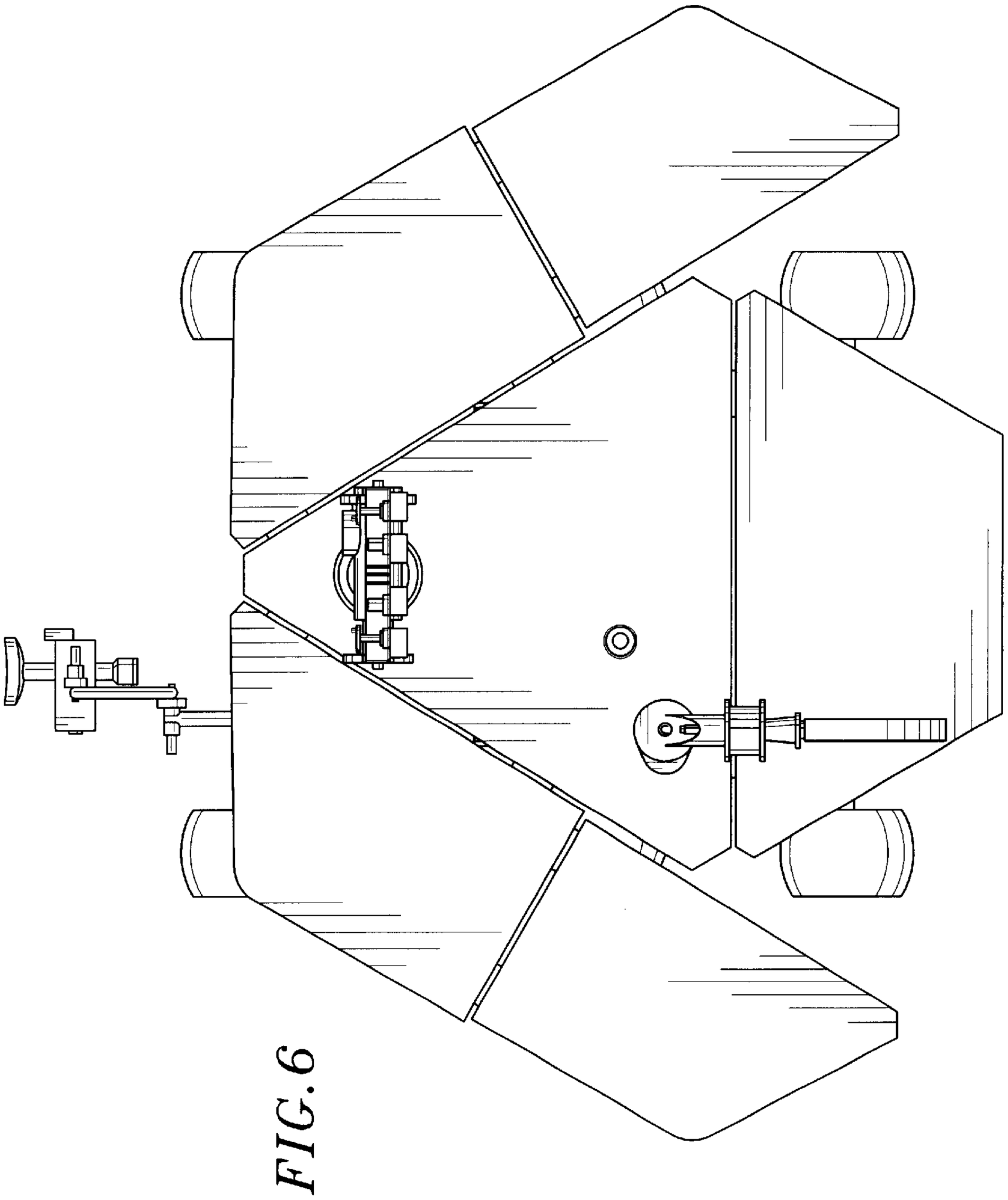


FIG.6

FIG. 7