

US00D612406S

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

(10) **Patent No.:** **US D612,406 S**

(45) **Date of Patent:** **** Mar. 23, 2010**

(54) **MILLING MACHINE SPINDLE SPEEDER**

6,729,813 B2 * 5/2004 Sahm et al. 409/136
7,509,720 B2 * 3/2009 Wawrzyniak 29/40

(75) Inventors: **Gregory Todd Jackson**, Waunakee, WI (US); **Edward Korn**, Oregon, WI (US); **Matthew McNear Doeppers**, Fitchburg, WI (US)

* cited by examiner

Primary Examiner—Sandra Snapp
Assistant Examiner—Patricia Palasik

(73) Assignee: **Tormach, LLC**, Waunakee, WI (US)

(57) **CLAIM**

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

The ornamental design for a milling machine spindle speeder, as shown and described.

(21) Appl. No.: **29/352,315**

(22) Filed: **Dec. 18, 2009**

DESCRIPTION

(51) **LOC (9) Cl.** **15-09**

FIG. 1 is a front top perspective view of the milling machine spindle speeder;

(52) **U.S. Cl.** **D15/131; D15/138**

FIG. 2 is a back top perspective view of the milling machine spindle speeder;

(58) **Field of Classification Search** D8/70;
D15/122, 131, 132, 138, 140; 279/126, 144,
279/900; 408/6, 9, 16, 57, 124, 238; 409/135,
409/136, 235; 451/294; 483/32

FIG. 3 is a back bottom perspective view of the milling machine spindle speeder;

See application file for complete search history.

FIG. 4 is a front bottom perspective view of the milling machine spindle speeder;

(56) **References Cited**

FIG. 5 is a front elevation view of the milling machine spindle speeder;

U.S. PATENT DOCUMENTS

2,777,340 A	1/1957	Hettwer	
3,752,595 A	8/1973	Woythal	
4,077,736 A	3/1978	Hutchens	
4,610,584 A *	9/1986	Malzkorn et al.	409/211
4,679,970 A	7/1987	Lohneis	
4,787,785 A *	11/1988	Hiller et al.	409/136
4,945,620 A *	8/1990	Dassler	29/39
5,322,494 A	6/1994	Holtey	
5,405,222 A *	4/1995	Ward	409/201
5,413,439 A *	5/1995	Wu et al.	409/216
5,419,661 A	5/1995	Meachum	
5,533,846 A *	7/1996	Geissler	409/201
D244,279 S	5/1997	Ponemon	

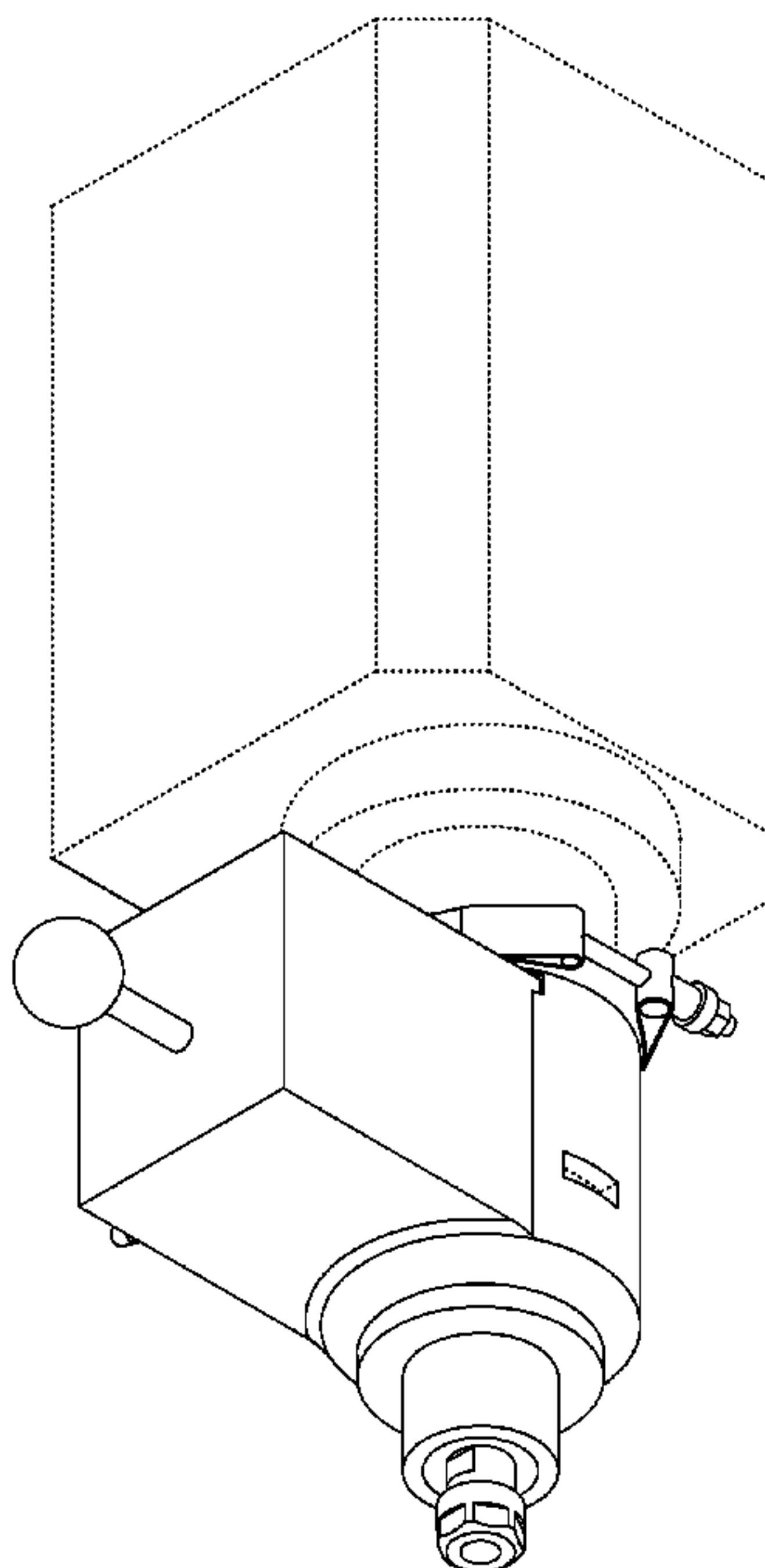
FIG. 6 is a right side elevation view of the milling machine spindle speeder;

FIG. 7 is a rear elevation view of the milling machine spindle speeder; and,

FIG. 8 is a left side elevation view of the milling machine spindle speeder.

The broken lines in FIGS. 1–8 are included for the purpose of illustrating the environment of the milling machine spindle speeder and form no part of the claimed design.

1 Claim, 8 Drawing Sheets



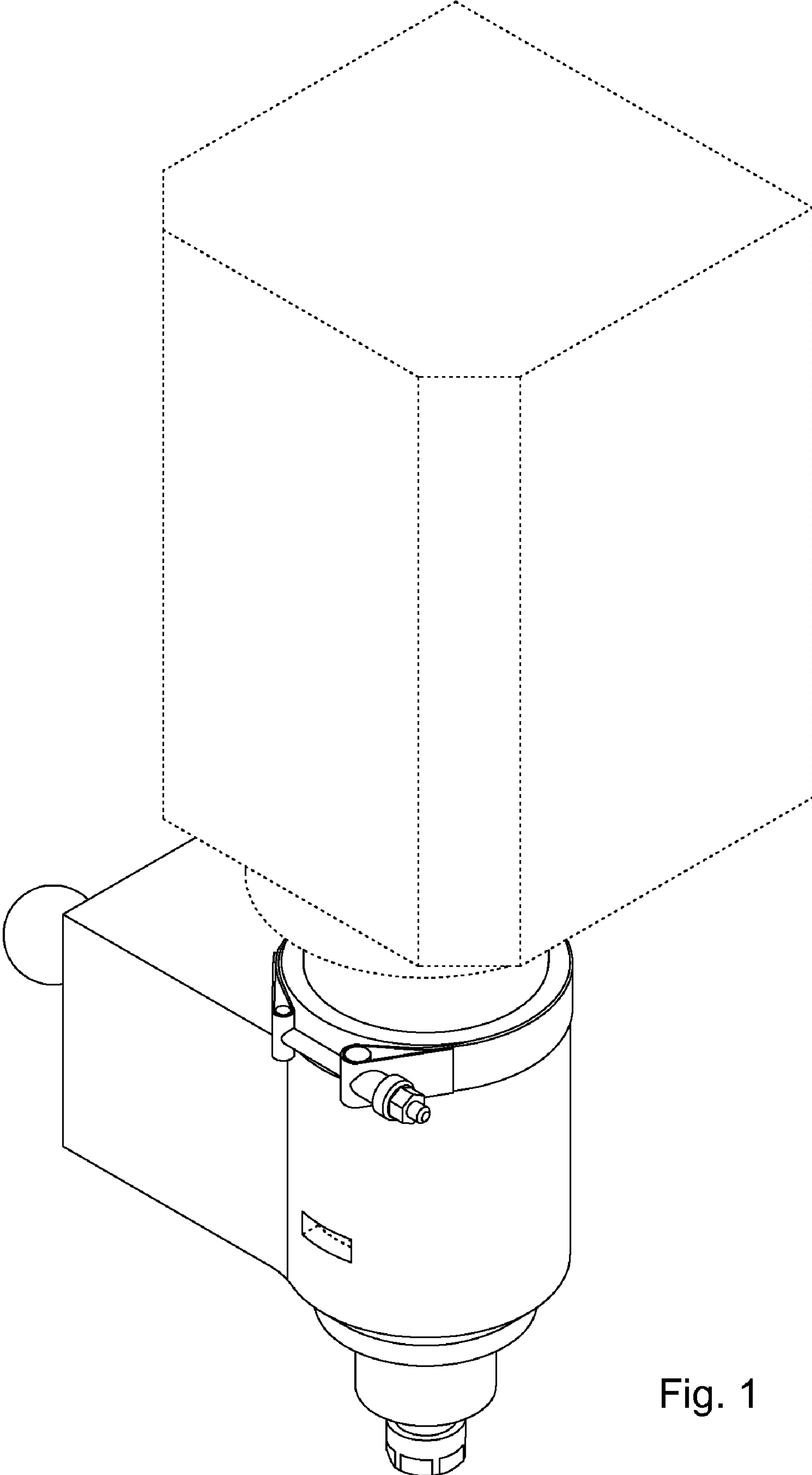


Fig. 1

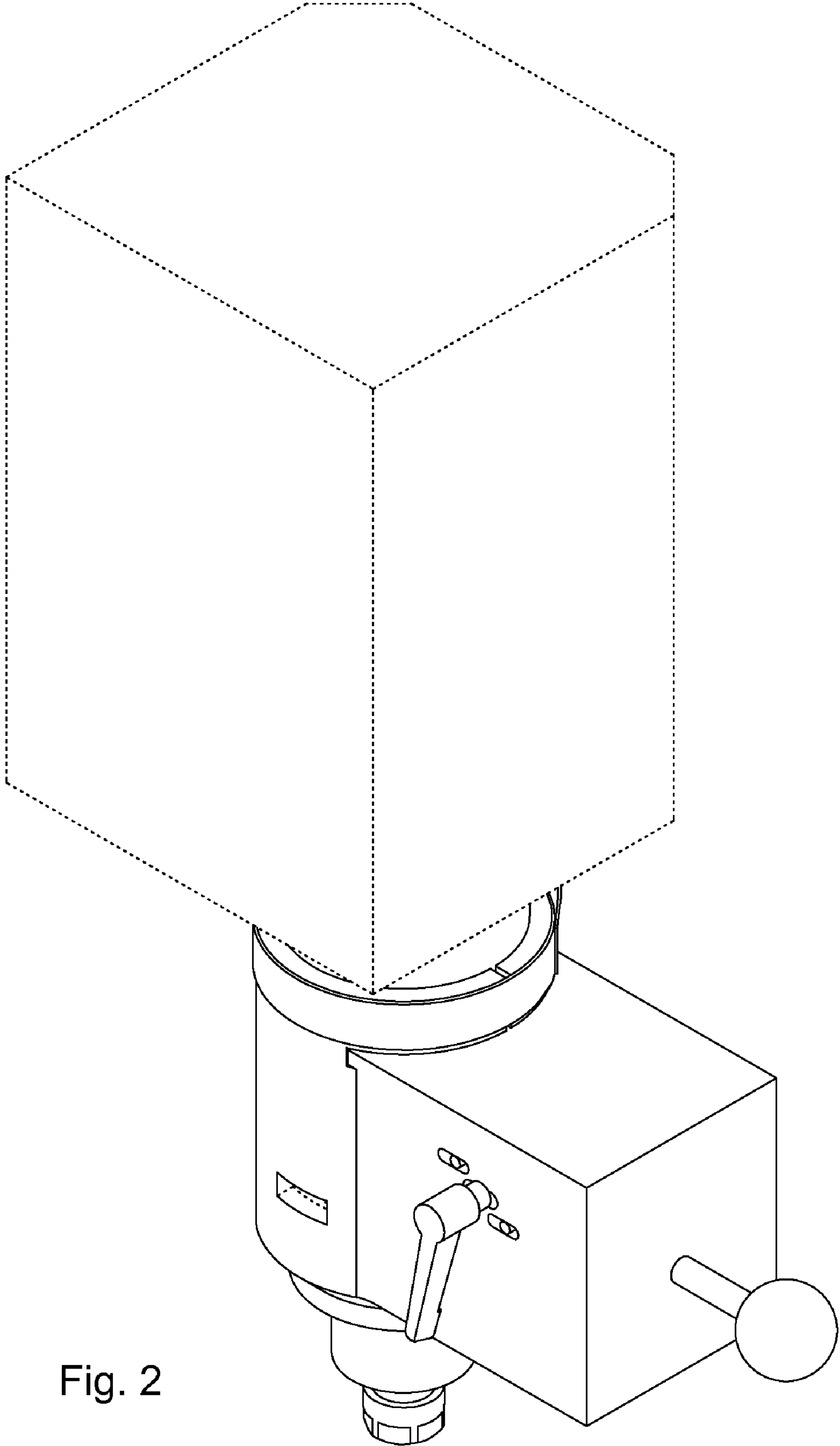


Fig. 2

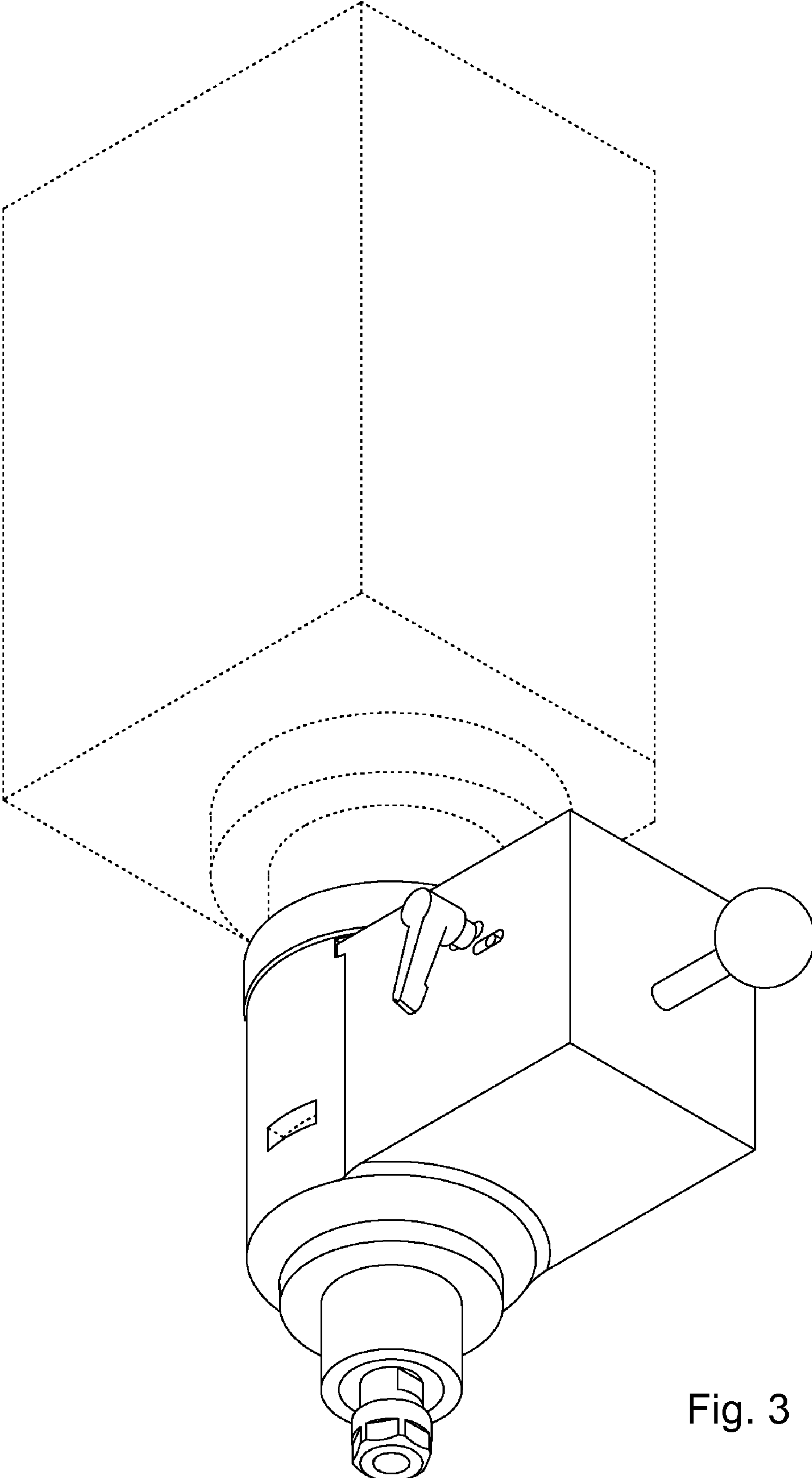


Fig. 3

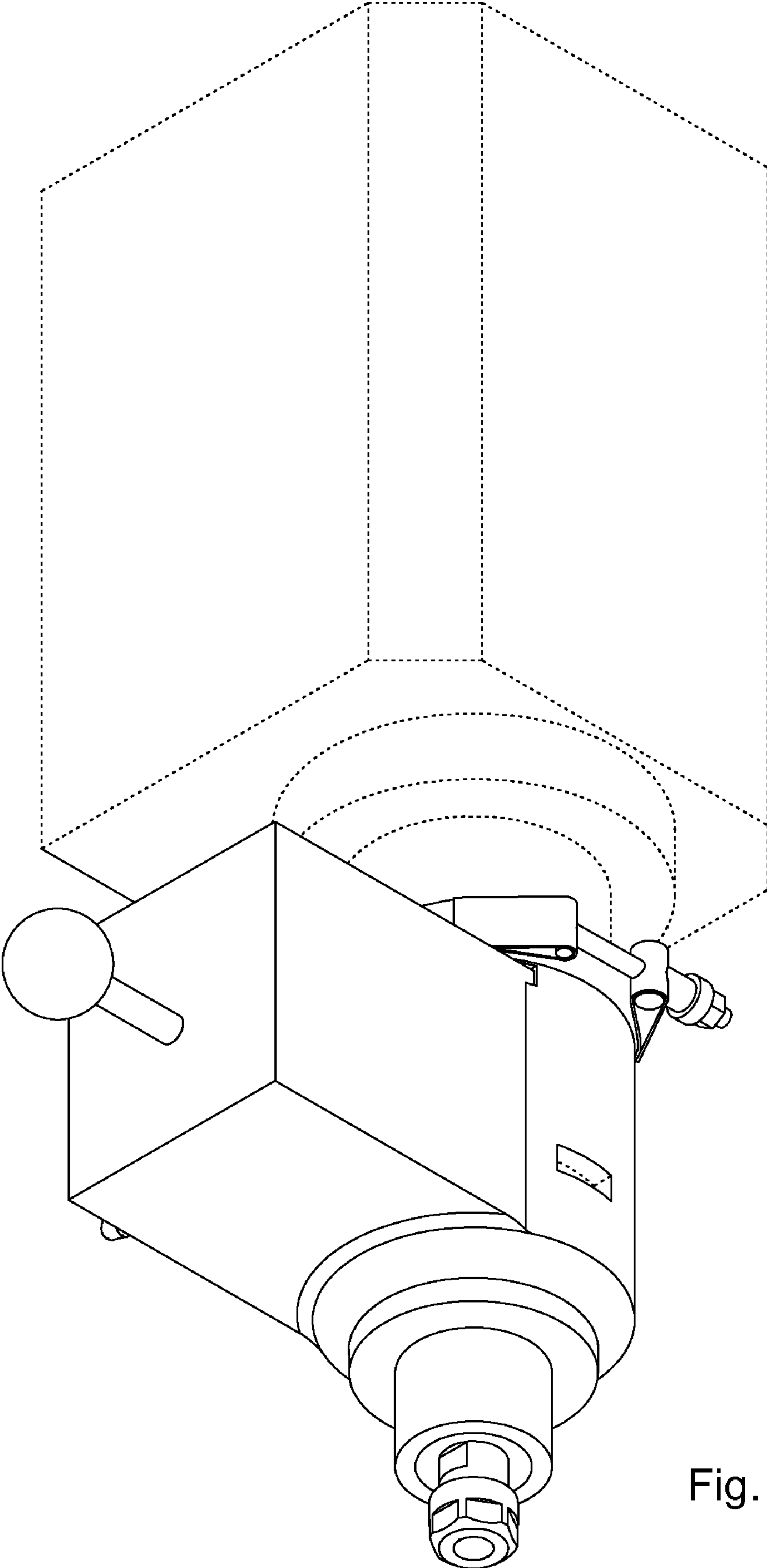


Fig. 4

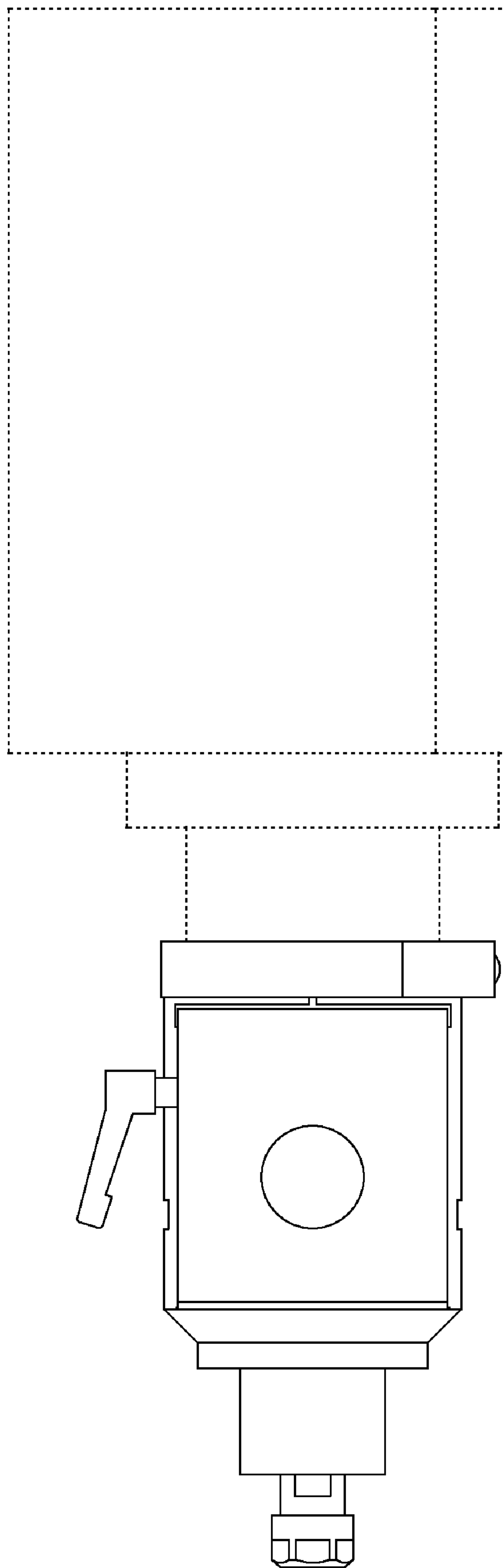


Fig. 5

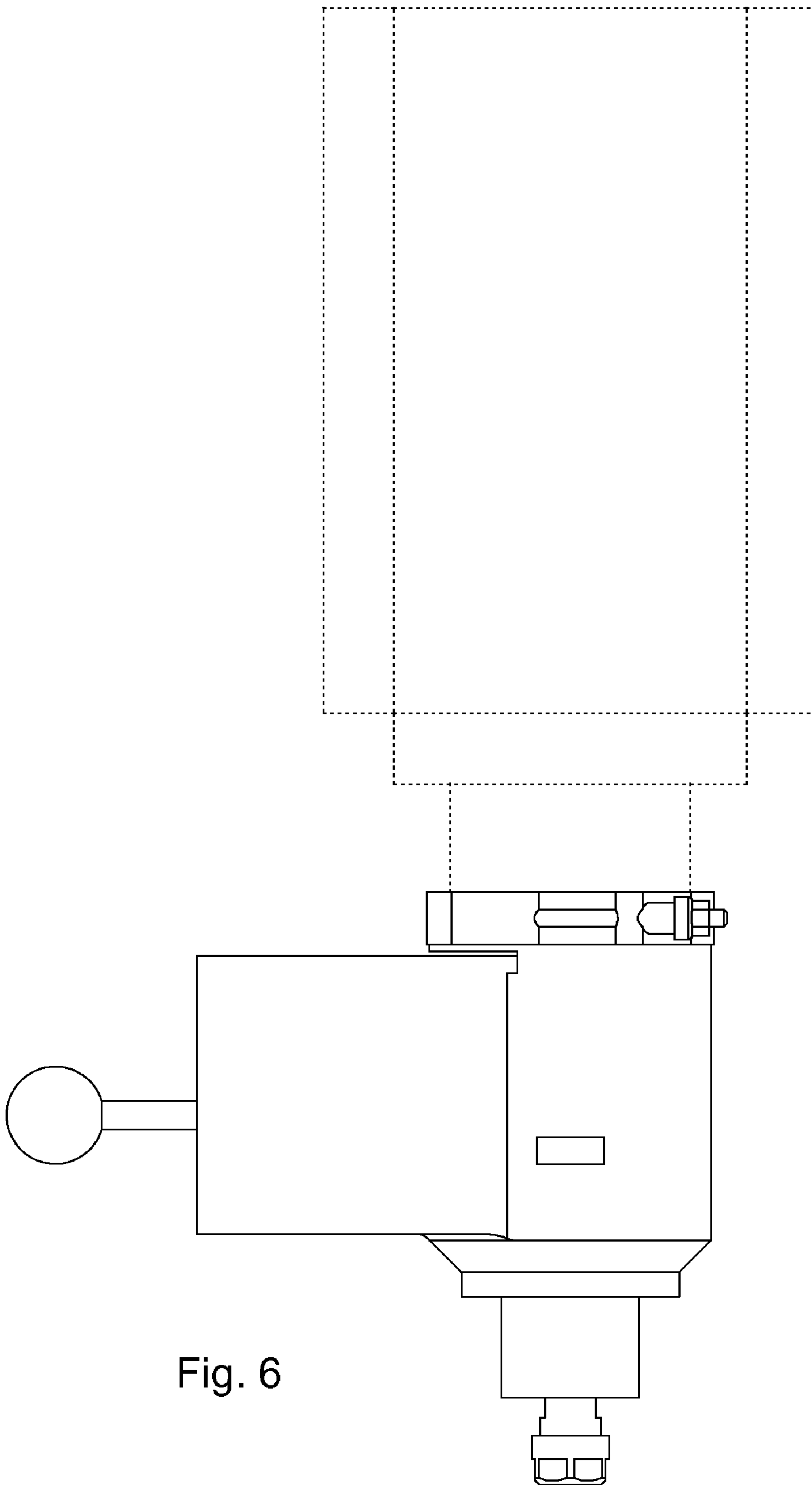


Fig. 6

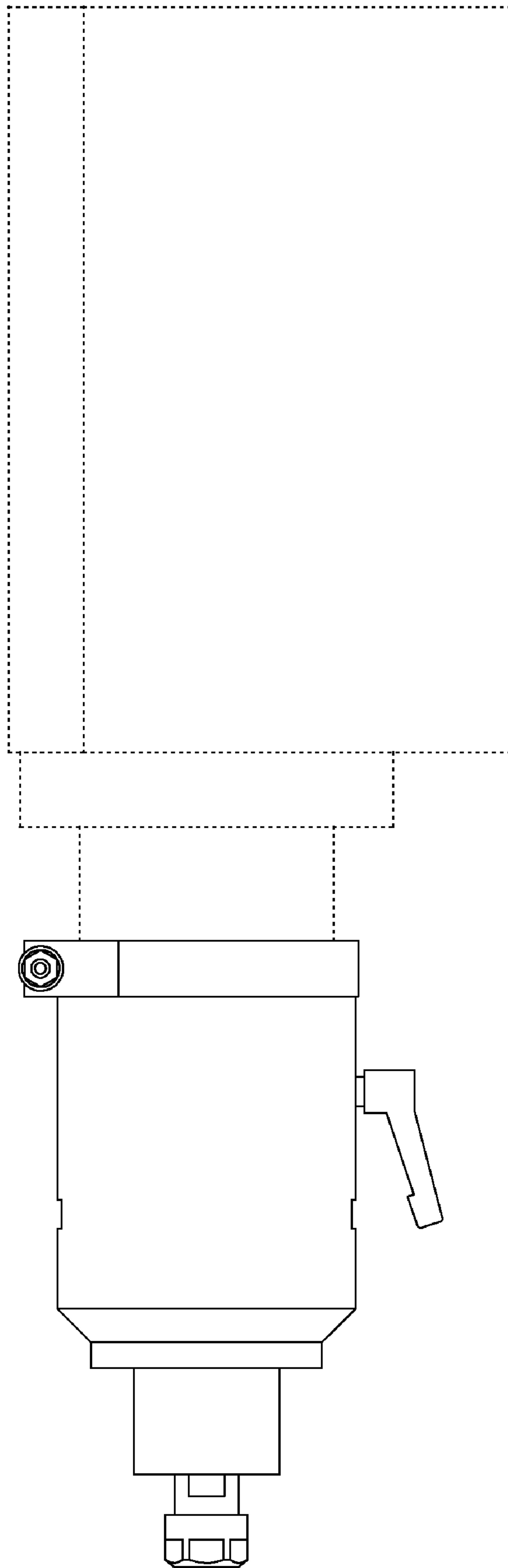


Fig. 7

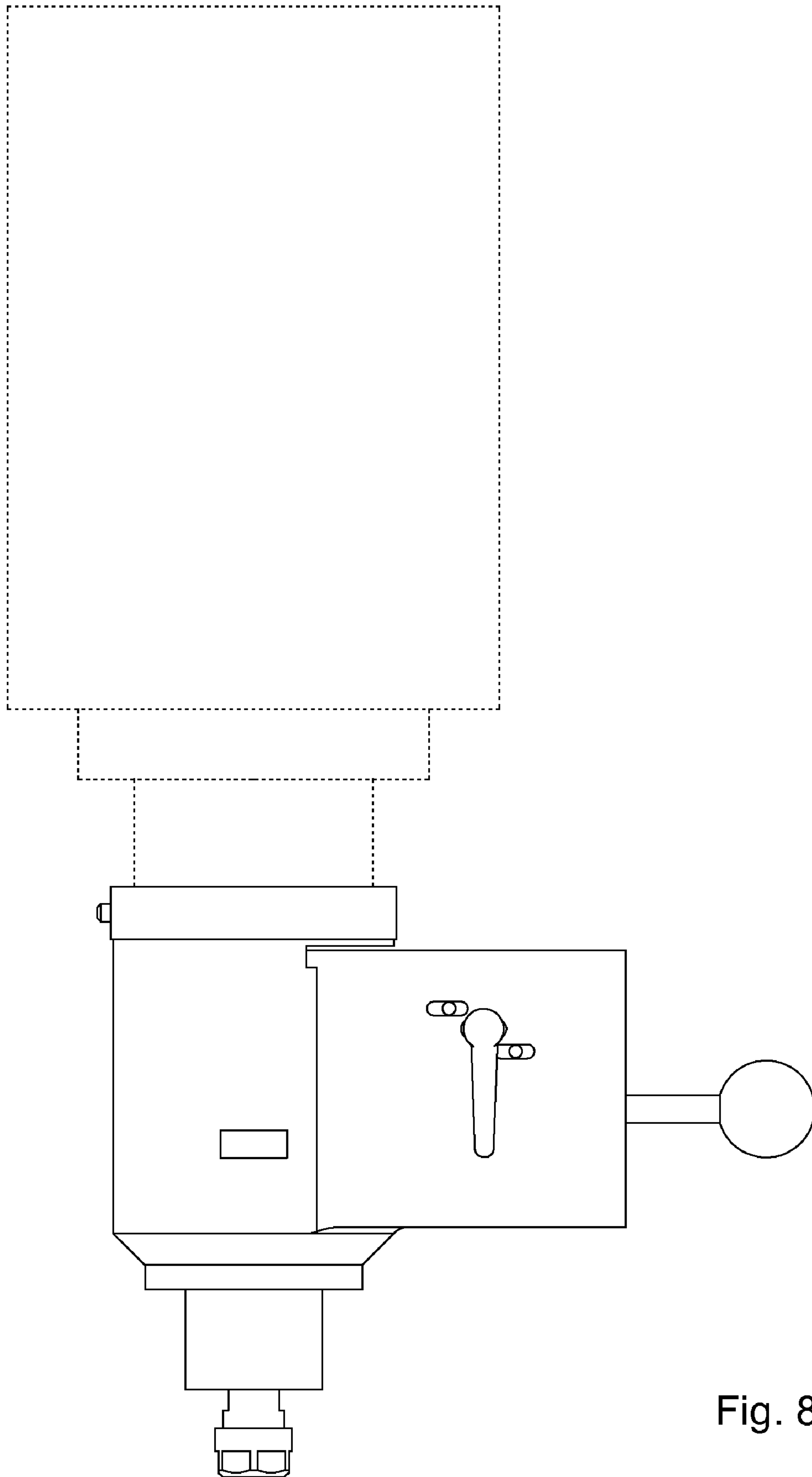


Fig. 8