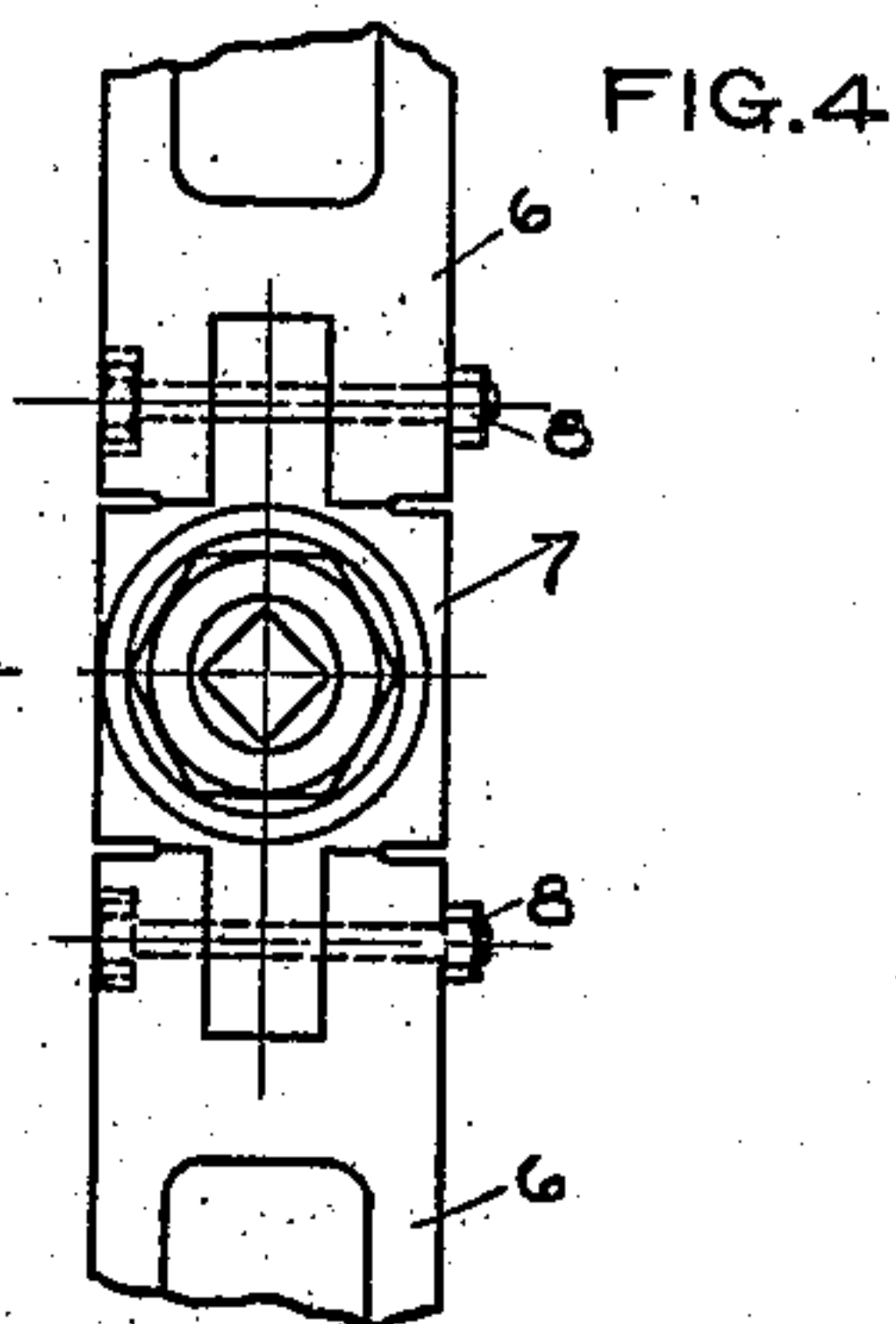
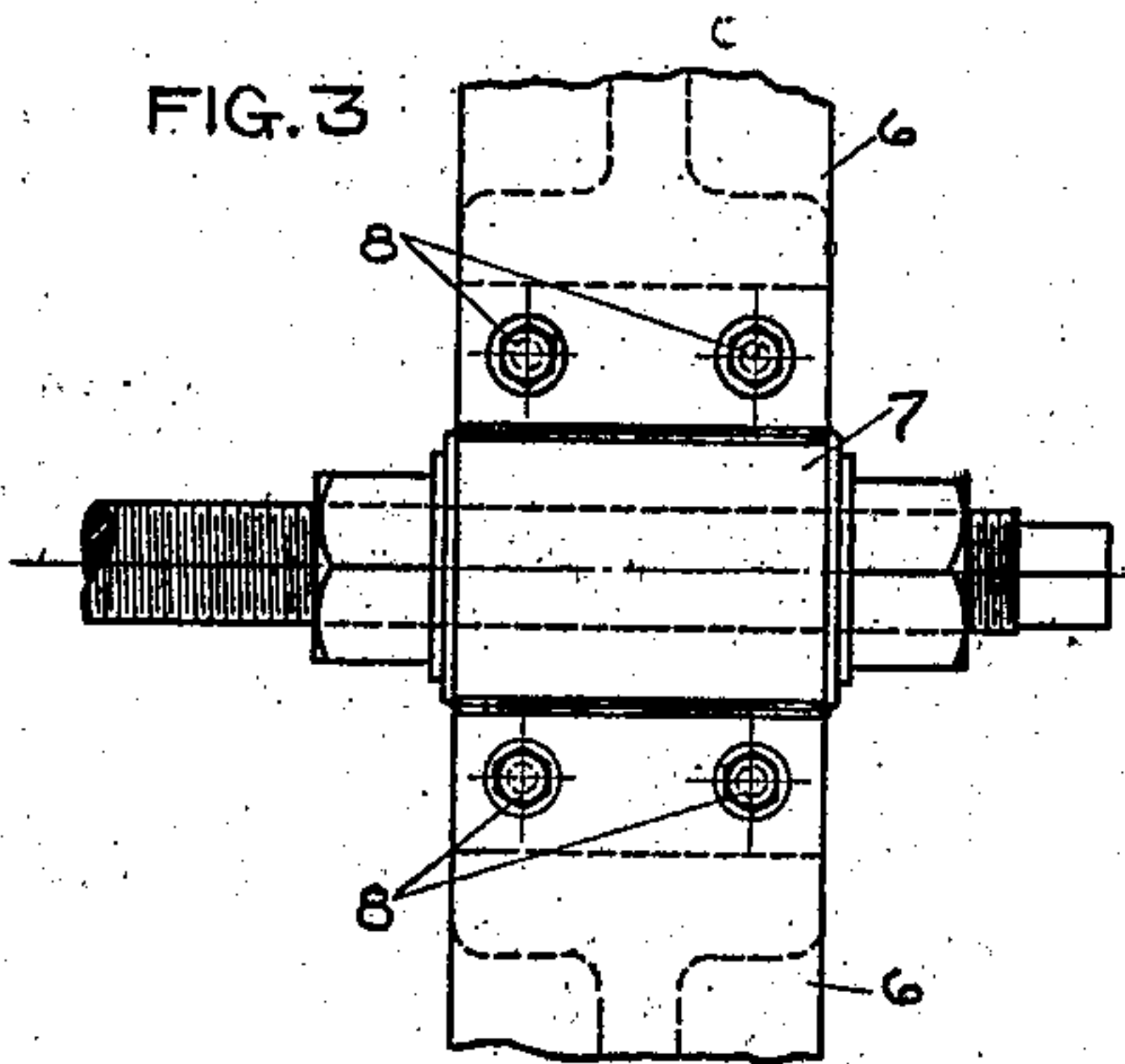
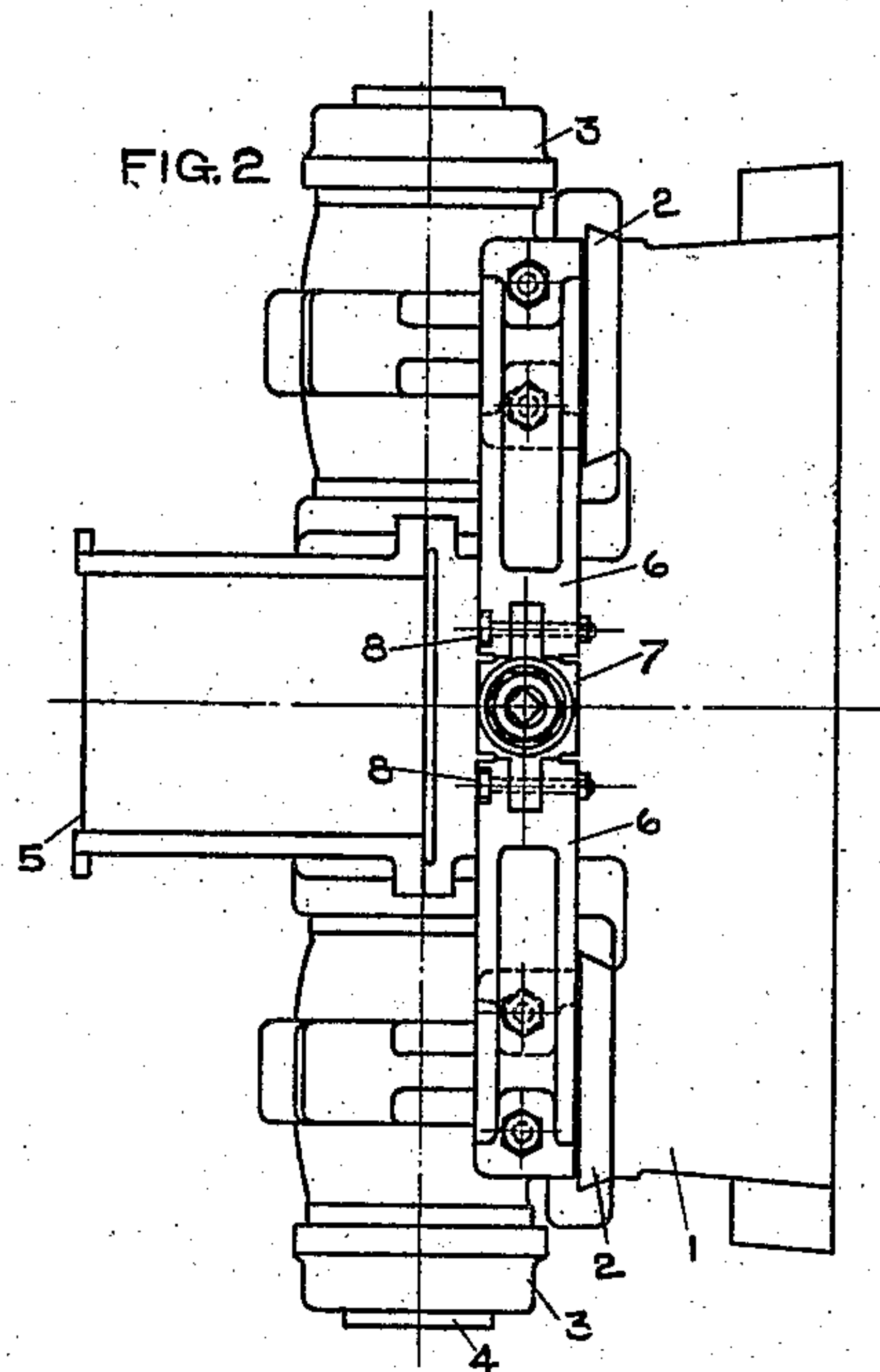
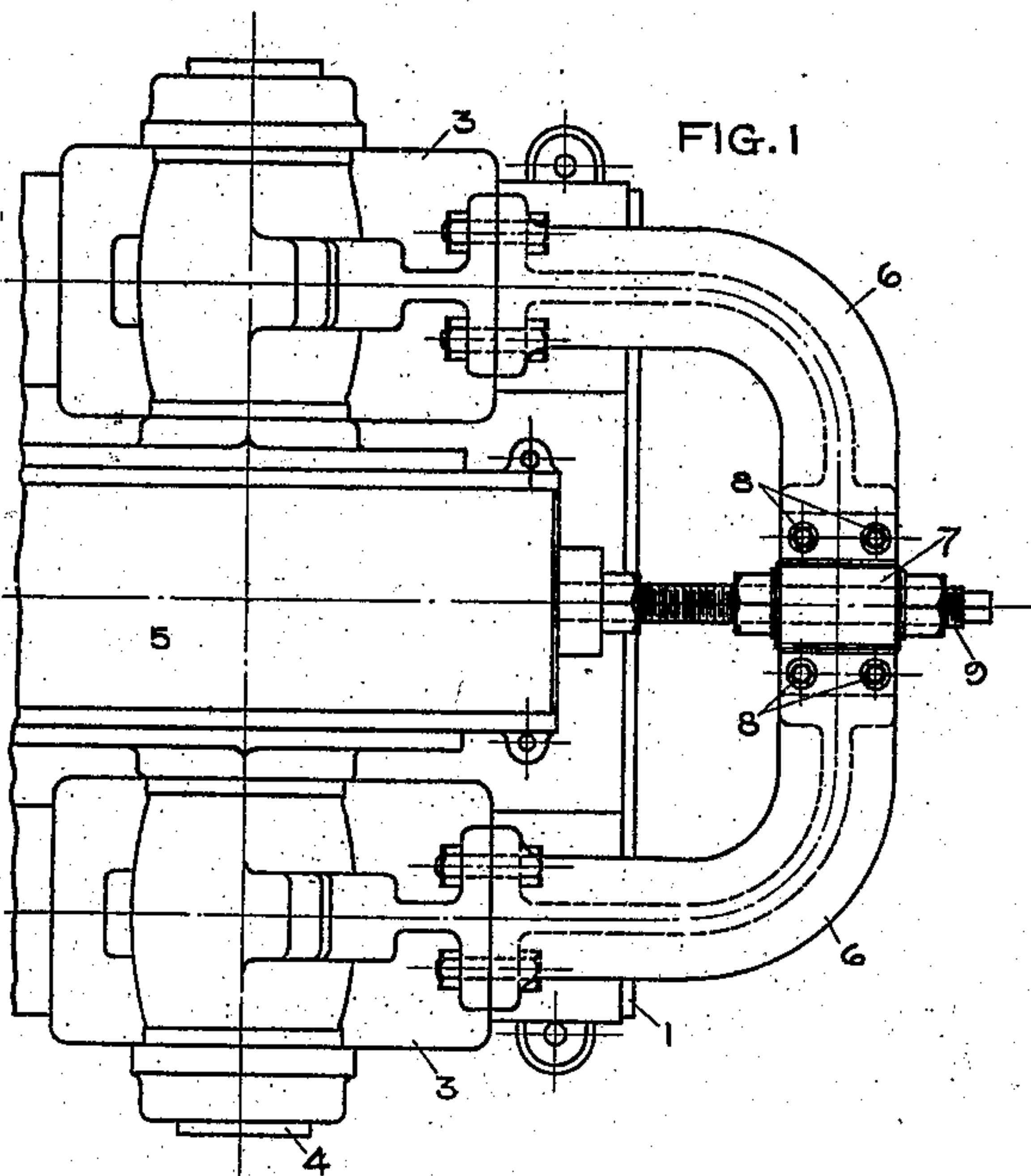


G. B. SHIPLEY.  
SAFETY JOURNAL BOX.  
APPLICATION FILED NOV. 1, 1905.

923,718.

Patented June 1, 1909.



WITNESSES:

*B. W. Wilson*

*Geo. Kirk*

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# UNITED STATES PATENT OFFICE.

GRANT B. SHIPLEY, OF MILWAUKEE, WISCONSIN, ASSIGNOR TO ALLIS-CHALMERS COMPANY,  
OF MILWAUKEE, WISCONSIN, A CORPORATION OF NEW JERSEY.

## SAFETY JOURNAL-BOX.

No. 923,718.

Specification of Letters Patent.

Patented June 1, 1909.

Application filed November 1, 1905. Serial No. 285,413.

*To all whom it may concern:*

Be it known that I, GRANT B. SHIPLEY, a citizen of the United States, residing at Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Safety Journal-Boxes, of which the following is a specification.

This invention relates to a structure which under normal conditions of use is maintained in position, but when subjected to unusual load or strain is adapted to yield. This yielding may occur through the breaking of an easily replaceable inexpensive element or elements.

This invention has especial utility when applied to rigid roll crushing machines wherein it is desirable to break a rock down to a certain size, and while so operating to prevent entire wreckage of the machine due to excessive strain should something unusually hard get into the mill.

An embodiment of the device is shown in the drawings herewith, in which,—

Figure 1 is a plan view; Fig. 2 is an end view; Fig. 3 is an enlarged detail plan view of the yieldable portion; and Fig. 4 is a side view of the same detail.

The base 1 has at each side thereof dovetail guides 2 on which are mounted to slide the adjustable journal boxes 3. Extending through the journal boxes is a shaft 4 carrying the crushing roll 5. A pair of bent mem-

bers 6 are bolted one to each journal box 3. Intermediate the bent portions of these members 6 is a block or cross-head 7 which is connected to the members 6 by bolts 8. Engaging the cross-head or block 7 is an adjusting device 9 having one end secured to the base 1. This adjusting device serves as a holding means for the boxes and yoke.

The two members 6 and the block or cross-head 7 constitute a sectional yoke. The bolts 8 connecting the block or section 7 with the members 6 are so proportioned as to shear when subjected to abnormal strain. Accordingly the sectional yoke serves to normally hold the journal boxes rigidly in position.

What is claimed and is desired to secure by Letters Patent is:

The combination of a plurality of boxes, a base upon which the boxes are movably mounted, a yoke connected directly to the boxes, and rigid means forming a rigid connection between the base and the yoke and including adjusting means, said yoke being designed to be broken on subjecting said boxes to abnormal strain tending to move said boxes on the base.

In testimony whereof I affix my signature in presence of two witnesses.

GRANT B. SHIPLEY.

Witnesses:

GEO. E. KIRK,  
G. F. DE WEIN.