

# W. Johnston. Bed Fastenings.

Fig. 1

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PATENTED

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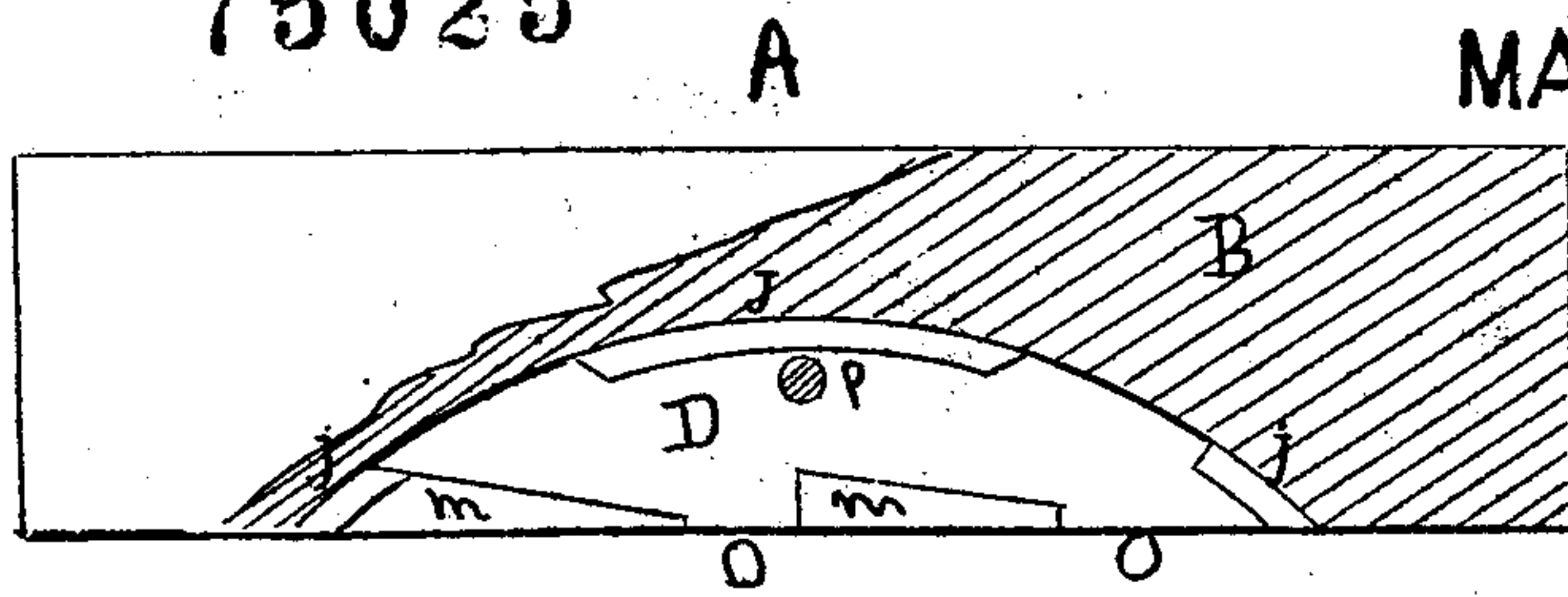


Fig. 2.

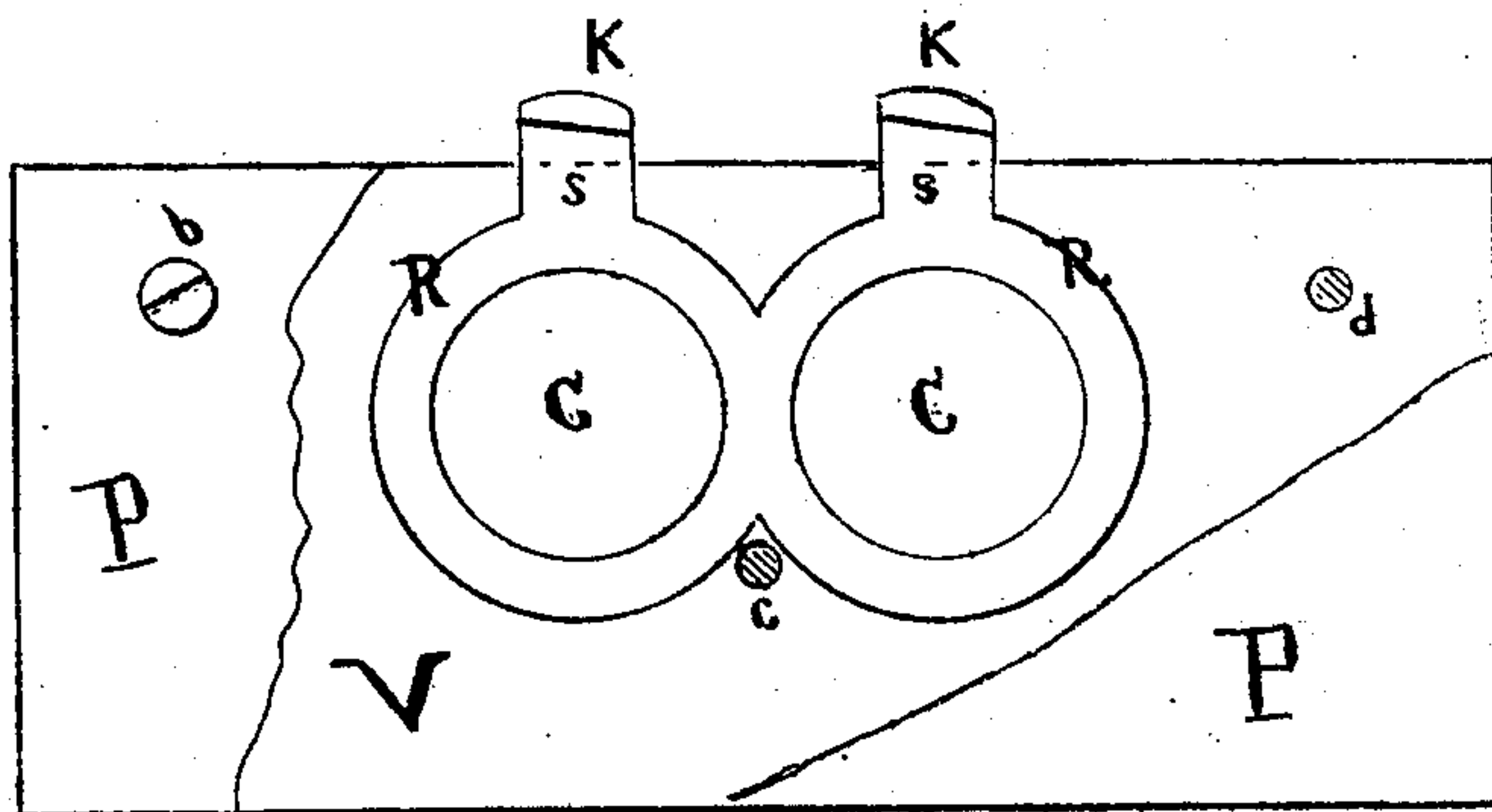


Fig. 3.

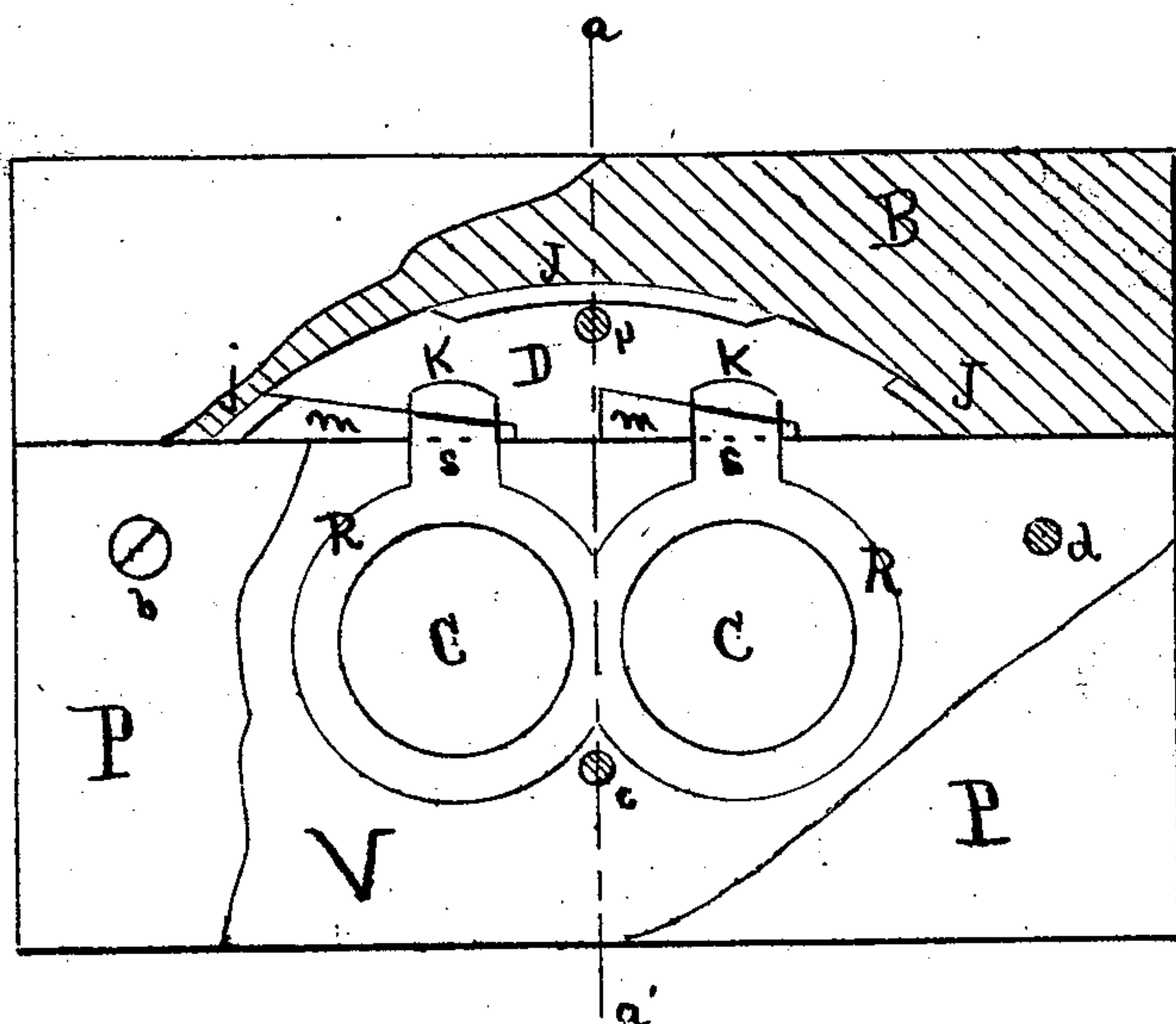
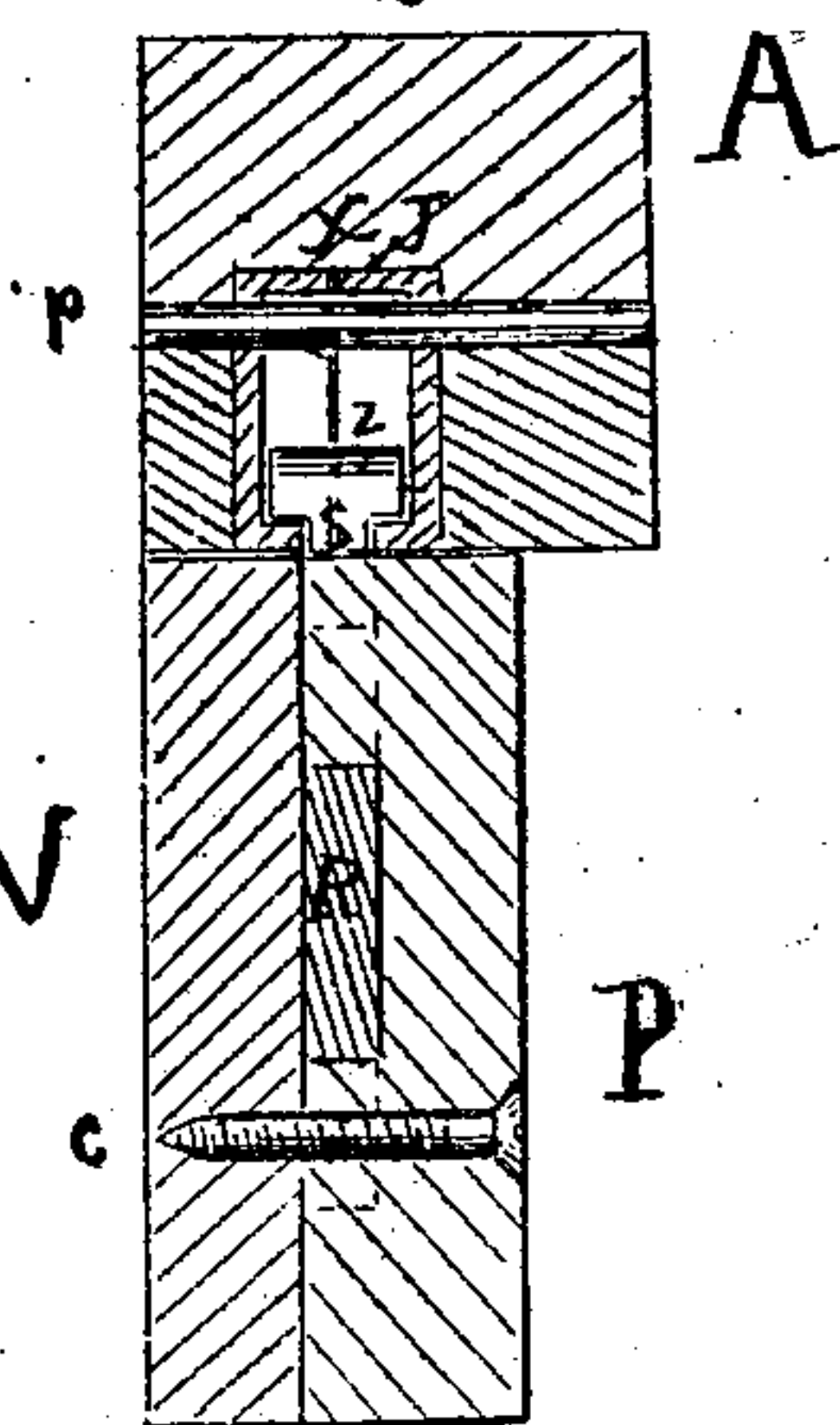


Fig. 4.



Witnesses.  
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# United States Patent Office.

WILLIAM JOHNSTON, OF APPLETON, WISCONSIN.

Letters Patent No. 75,025, dated March 3, 1868.

## IMPROVED BEDSTEAD-FASTENING.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, WILLIAM JOHNSTON, of Appleton, in the county of Outagamie, and State of Wisconsin, have invented a new and improved Bedstead-Fastening; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings forming part of this specification, in which—

Figure 1 is a side view of the bed-post, with a cut section showing a part of the fastening.

Figure 2 is a side view of the rail-piece, with a part of the cap removed, showing the fastening corresponding to that shown in fig. 1.

Figure 3 is a view of the parts shown in figs. 1 and 2, brought together and fastened.

Figure 4 is a section through the line *a a*.

Similar letters of reference indicate corresponding parts.

The fastenings of this class usually consist of two parts, one of which is a cast or malleable iron plate or block of an oblong form, which is fitted into the wood with screws, requiring, from its form, the double process of boring and chiselling to so fit them. The corresponding fastening is also fitted to its part in the same manner, thus requiring time and skill, besides the expense of the great quantity of screws used. By forming the parts of such fastenings of a circular exterior, the requisite mortises for their reception can be cut with facility and dispatch by the ordinary machinery of a wood-shop.

In fig. 1, D is the iron, which is furnished with apertures *o o*, for the reception of the catches or headed tenons *k k*, which, in fastenings of this class, fit into these openings *o*, and are then slid downward, the necks *s s* passing into a slot made by the butts *m m*, as shown in the figures. This part of the fastening is common to many, and is no part of my invention; but the combination of circular form *j j j* of the fastening D, which admits of its being fitted easily and without screws is one part of my improvement, and the circular parts R R of the corresponding fastening is the other part of my improvement. The sides of these parts are planes, as seen in the figures. The part D being set firmly into the post, requires no screws, but only a pin, *p*, passing through it and the post, which holds it securely in place, thus obviating the use of any screws whatever; and from its peculiarity in being so held, it admits of being cast or stamped in two parts, which, by being so stamped or cast can be made rapidly and with little cost. The division-line of the two halves of the fastening is shown at *x z*, fig. 4. The mortise or recess required for fitting the part D is rapidly made by a cylindrical burr or burred disk, of the same or proximate radius as the pieces D, placed upon the arbor of an ordinary circular saw.

In fig. 2 are the catches *k k*, attached to rings R R, which rings are joined together, being cast or stamped so, or may be made separate.

The operation of fitting these, is, from their shape, easily performed by cutting the circular recesses in the side or end-board V with a bit, shaped for the purpose, running in an upright boring-machine, such as all bedstead-makers use. The parts *e e* are the circular parts of the wood, which are not cut away by the bit. The small recesses for receiving the necks *s s* are quickly and easily cut away with a bit or chisel. These catches are also secured in their places without any more than the usual screws for attaching the cap-piece, portions of which are shown in figs. 2 and 3, and are put on with the screws *b c d*.

In fig. 4 can be seen the junction of the rings R R, when said rings are firmly embedded and held in place by the cap-piece P.

The advantages of this form of the fastenings are, the security and facility with which they are fitted, as well as the reduced expense of the method or operation of fitting them in their places.

I claim as new, and desire to secure by Letters Patent—

The part D, when made in two sections of segmental form, secured together by the single pin P, in combination with the rings R R, joined together and cast in one piece, and bearing upon one side the necks *s s*, and catches *k*, as herein described for the purpose specified.

WILLIAM JOHNSTON.

Witnesses:

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