

No. 845,688.

PATENTED FEB. 26, 1907.

H. A. BRUNSTRÖM.
CARPENTER'S BENCH.
APPLICATION FILED OCT. 16, 1906.

Fig. 1.

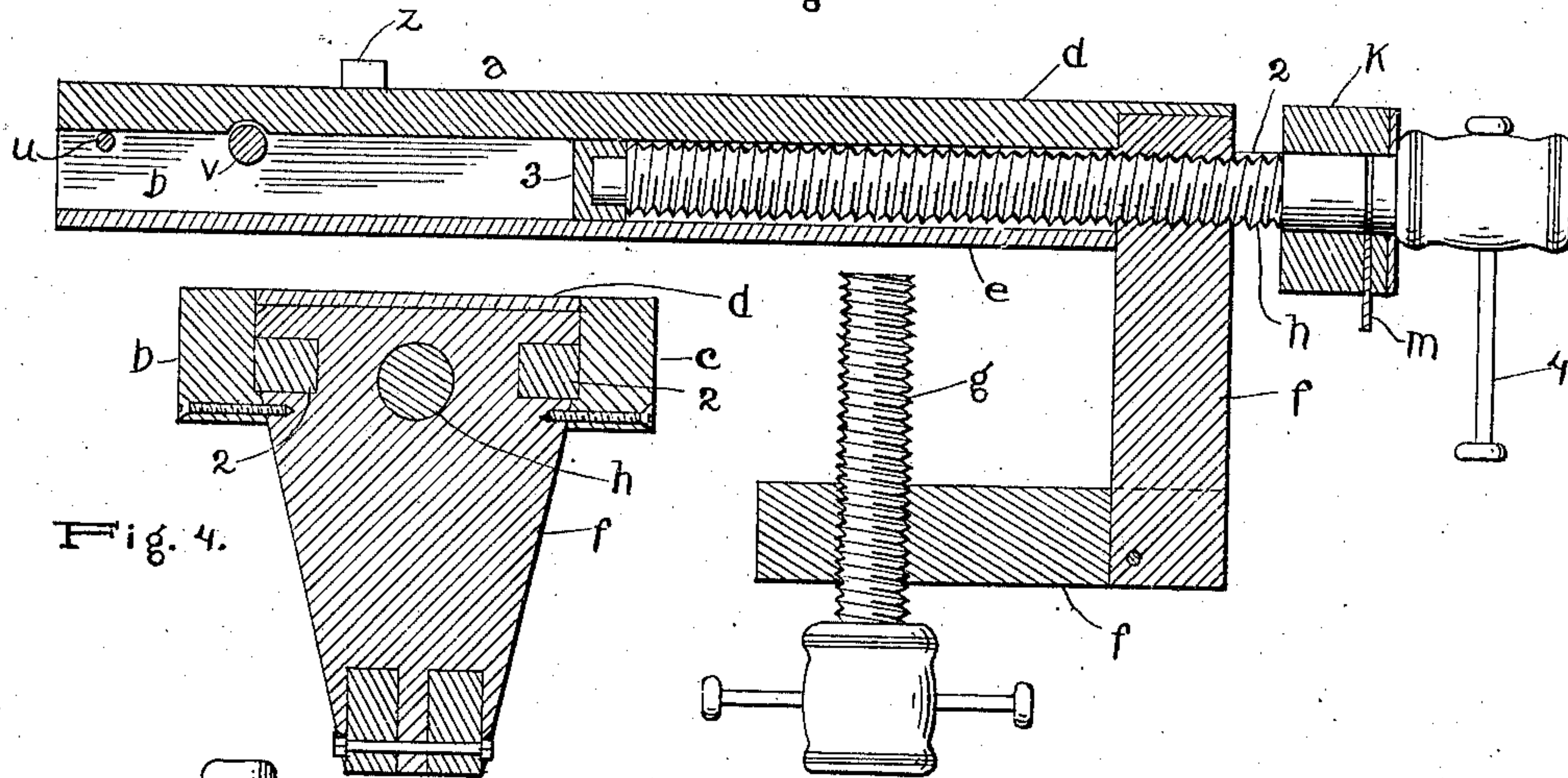


Fig. 4.

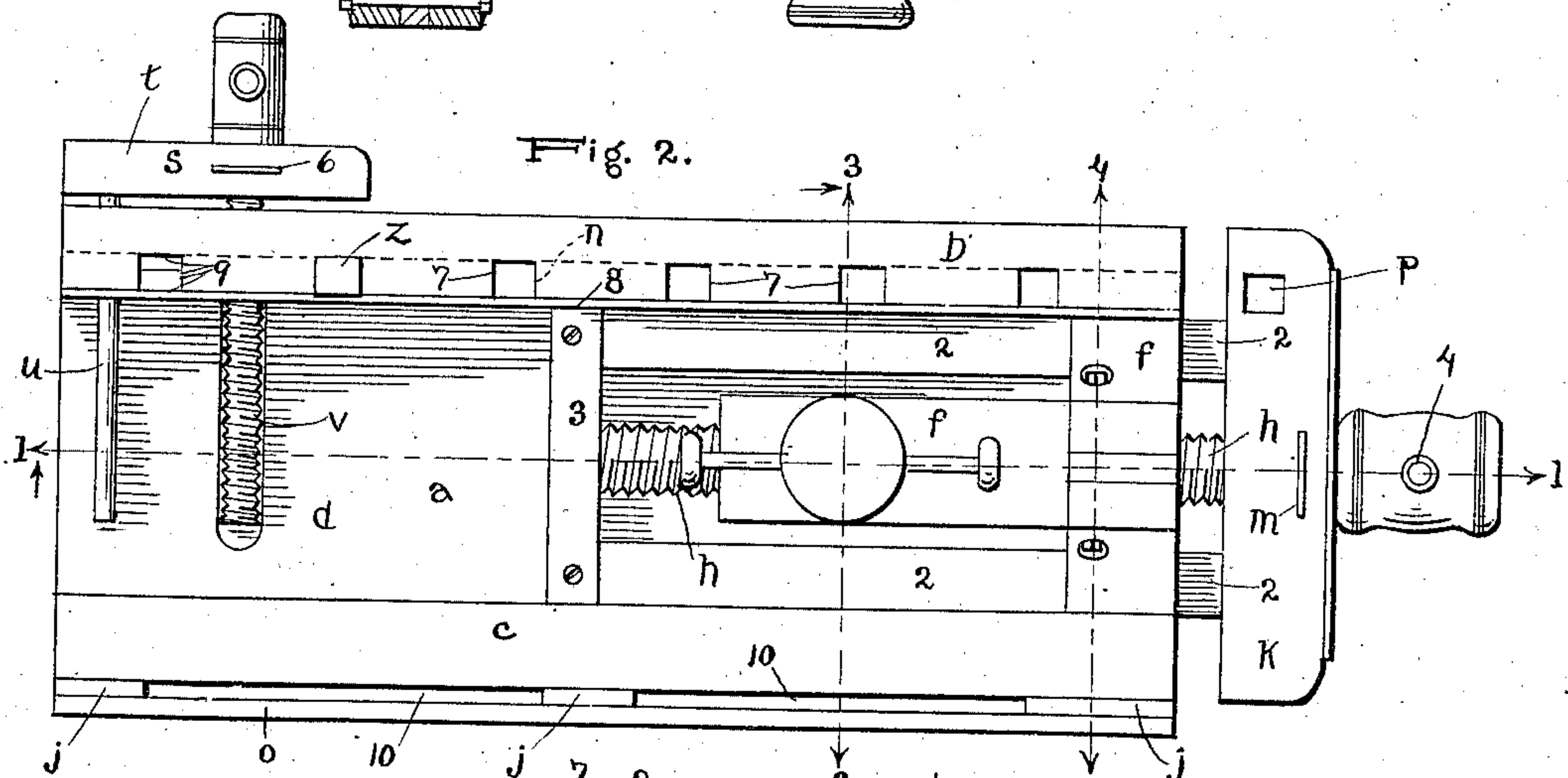
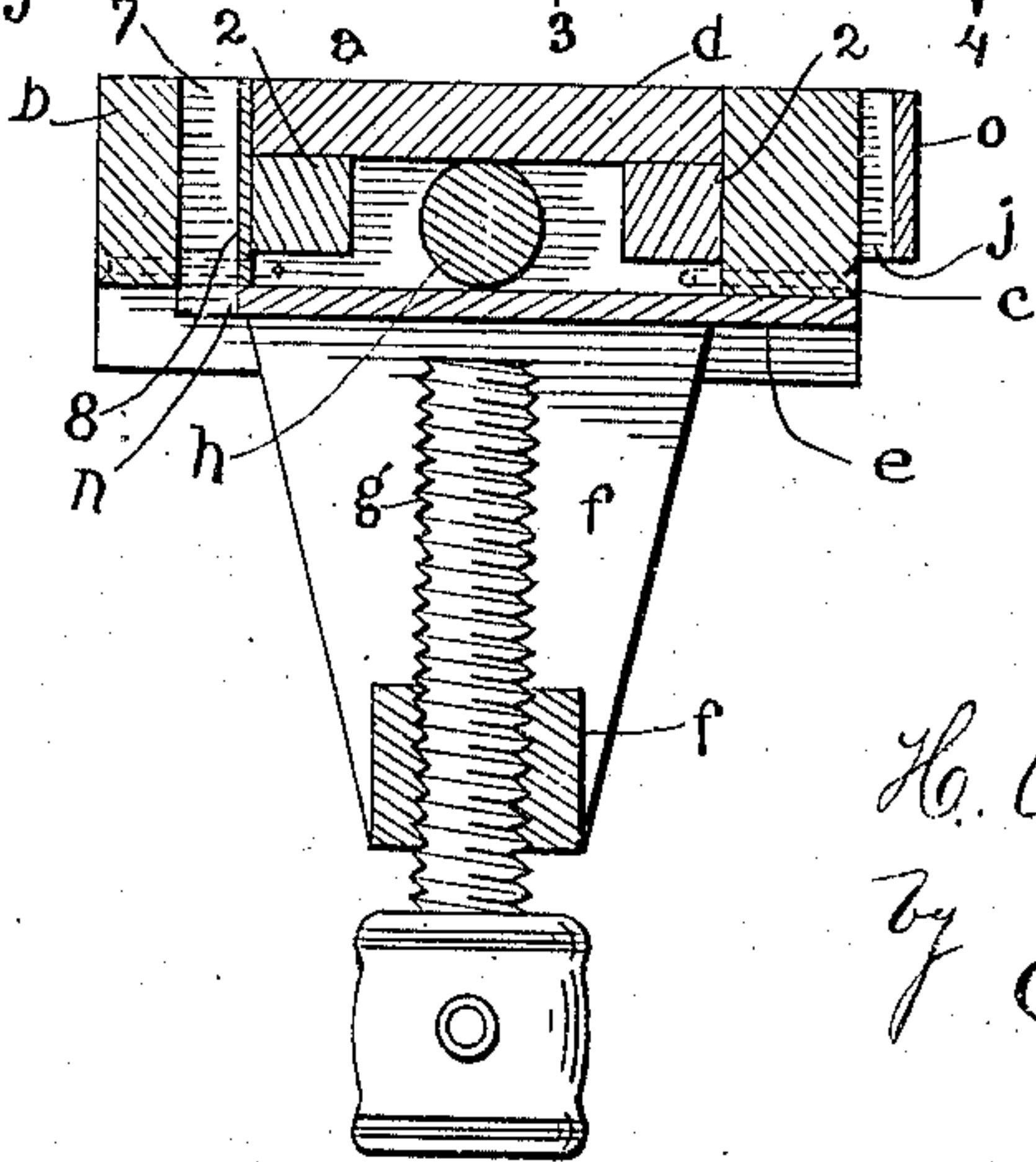


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

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CARPENTER'S BENCH.

No. 845,688.

Specification of Letters Patent.

Patented Feb. 26, 1907.

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To all whom it may concern:

Be it known that I, HENRIK A. BRUNSTRÖM, a citizen of the United States, a resident of Somerville, in the county of Suffolk and State of Massachusetts, have made a certain new and useful Invention in Carpenters' Benches; and I declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it appertains to make and use the invention, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 is a section on the line 1 1, Fig. 2. Fig. 2 is a bottom plan view of the invention. Fig. 3 is a section on the line 3 3, Fig. 2. Fig. 4 is a section on the line 4 4, Fig. 2.

The invention has relation to carpenters' benches for children, and particularly to bench attachments for small work adapted to be secured to the edge of a table or chair; and it consists in the novel construction and combinations of parts, as hereinafter set forth.

In the accompanying drawings, illustrating the invention, the letter *a* designates the hollow body of the bench, which consists of the main or work edge bar *b*, the back bar *c*, the main work-board *d*, and the bottom board *e*. To the body of the bench is secured at the heel end a strong downward-extending angle-arm *f*, which is threaded for the engagement of a vertical attachment-screw *g*. The angle-arm is also threaded for the engagement of a longitudinal screw *h*, to which is removably connected the heel-vise *k*, which extends transversely of the main board at its heel end and is provided with guide-bars 2, passing through bearings of the angle-arm into the cavity of the body *a* between the main board and bottom board and along the work edge bar *b* and the back bar *c*. These guide-bars are connected by a transverse brace-bar 3, into which the inner end of the vise-screw *h* is pivoted. The screw *h* is removable from the vise when the key *m*, which engages an annular groove of the screw-shank, is withdrawn. The screw-head is perforated for the reception of a sliding handle or lever 4, such as are commonly employed in connection with bench-vises. The head of the transverse vise is provided with a squared aperture for the reception of a rectangular friction-pin *p*, which is designed

to serve as an abutment for the work being planed. This vise is also designed to hold work between its head and the heel of the bench.

Near the head of the bench on the work side is connected thereto a longitudinal vise *t*, which is usually smaller than the transverse vise. This vise is also removable, and consists of a longitudinal head *s*, its guide *u*, and removable screw *v*, which is provided with a slide-handle. This screw is held in position in the head of the vise by means of a key 6, engaging a groove of the screw-shank. This vise is provided with a guide-bar *w*, which engages a slide bearing in the main bar, such bearing being parallel to a threaded bearing in said main bar which is engaged by the screw.

The main bar *b* is provided in its inner edge with a series of notches 7, which are closed in by means of a strip 8 to form rectangular bearings 9, designed to receive and engage frictional abutment-pins *z*, which are used in connection with the work. To the back bar *c* is attached a back strip *o*, which is offset from said bar by means of insertions *j*, so as to provide narrow longitudinal slot-bearings 10 for the reception of chisels, rules, screw-drivers, gages, and other instruments. The upper surface of the transverse vise-head is flush with the upper surface of the main board. The bottom board is offset below the lower surfaces of the main bar *b* and back bar *c*, and it is provided with a series of notches *n*, which register with the lower ends of the bearings 9. These notches provide a convenient means for adjusting the height of the surface projection of one of the pins when pushed up for use above the surface of the main board.

This small bench is designed to be of much practical use in homes, especially where there are boys growing up or where there is small work to be done. For such work it affords the facilities of any carpenter's bench. It is easily stored away when not in use, as it takes up but little room. It is light and portable and can be readily adjusted to a table or chair and secured thereto by means of the angle-arm and attachment-screw. As this screw extends at right angles to the bottom board, the bench will serve in connection therewith when turned upside down for holding glued work together until set.

Having described the invention, what I claim, and desire to secure by Letters Patent, is—

A portable carpenter's bench attachment,
5 consisting of a hollow frame having a rear bar, a front bar provided at its inner end with a screw-threaded opening and a lateral guide-opening, top and bottom boards connecting
10 said front and rear bars, and separated by an interval, an outer angle-form arm connecting said front and rear bars and having a screw-threaded opening and lateral guide-openings
15 in line with the interval between said top and bottom boards, an end clamp having a horizontal screw engaging the screw-threaded opening of the outer arm and lateral guide-bars engaging the guide-openings of said bar,
a transverse bar connecting said guide-bars

and having a central bearing for the inner end of said horizontal screw, which engages 20 the same, a vertical clamp-screw engaging a horizontal arm of said angle-bar, and a transverse clamp having a horizontal screw engaging the screw-threaded opening of said front bar and a guide-rod engaging the guide-open- 25 ing of such bar, said horizontal screws, guide-rods, and transverse bar being located in the interval between said top and bottom boards, and said transverse bar abutting at its ends against said front and rear bars. 30

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

HENRIK A. BRUNSTRÖM. [L.S.]

Witnesses:

OSCAR HILL,

W. S. WAGNER.