

No. 868,005.

PATENTED OCT. 15, 1907.

J. E. PREST.
 THREAD GUIDE FOR SPINNING MACHINES.
 APPLICATION FILED MAR. 16, 1907.

Fig. 1.

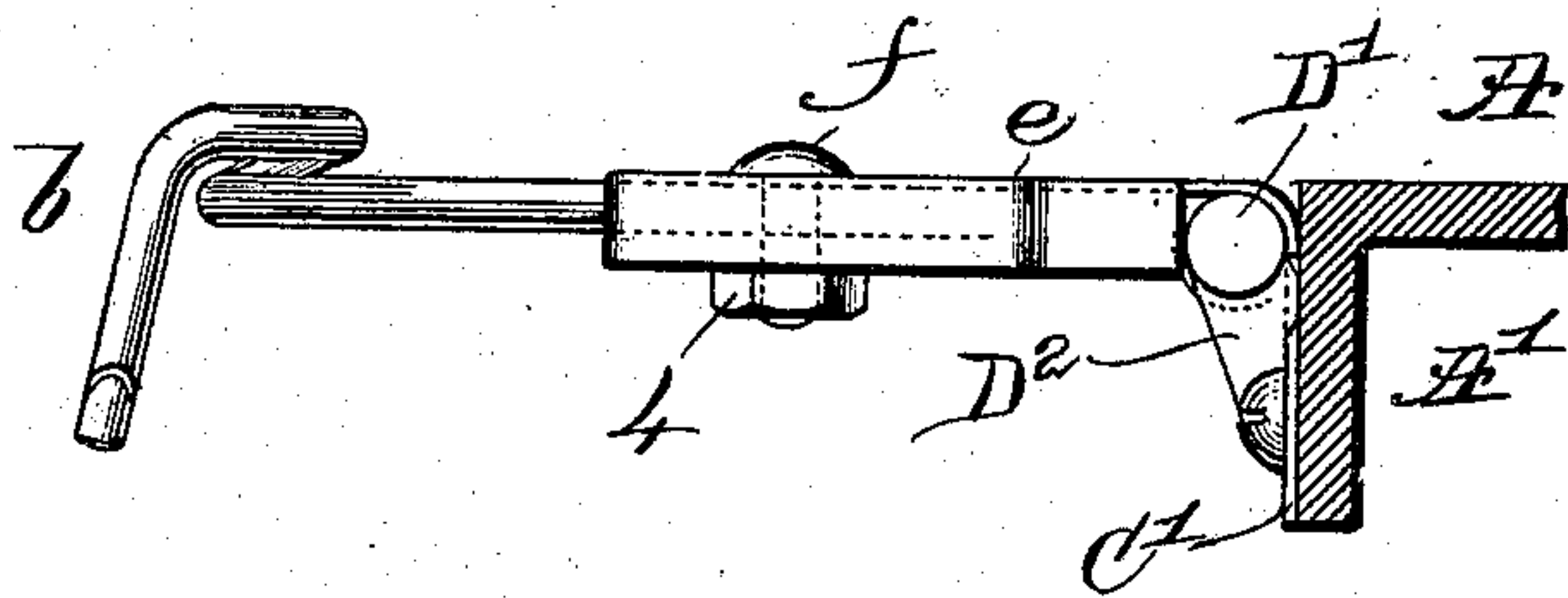


Fig. 2.

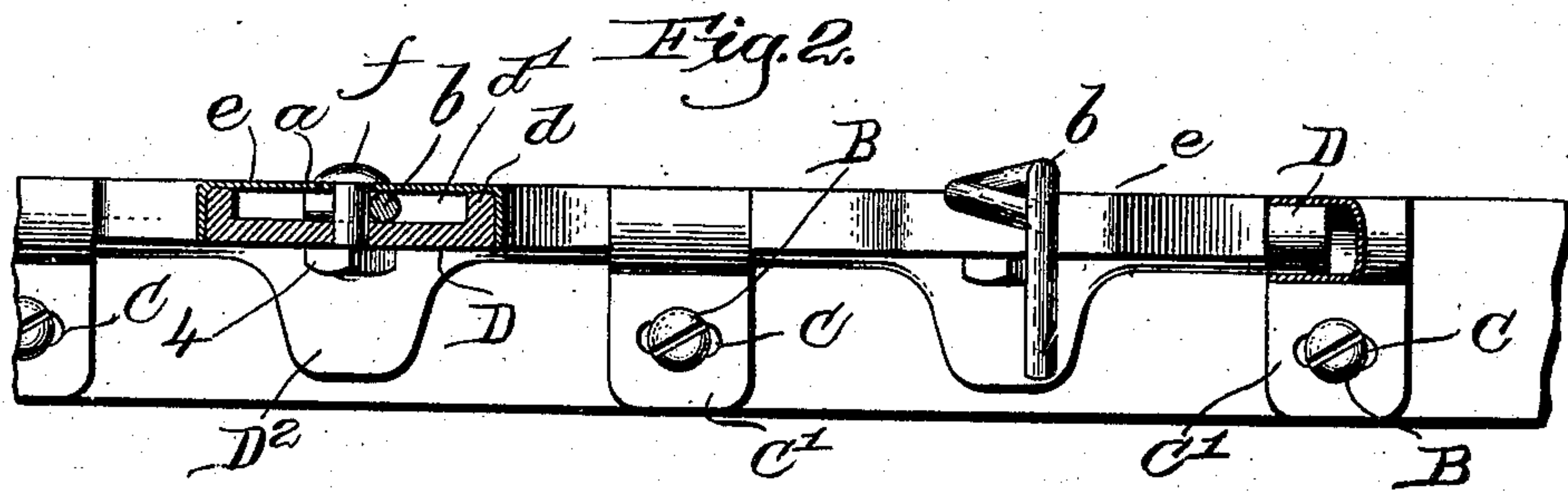


Fig. 3.

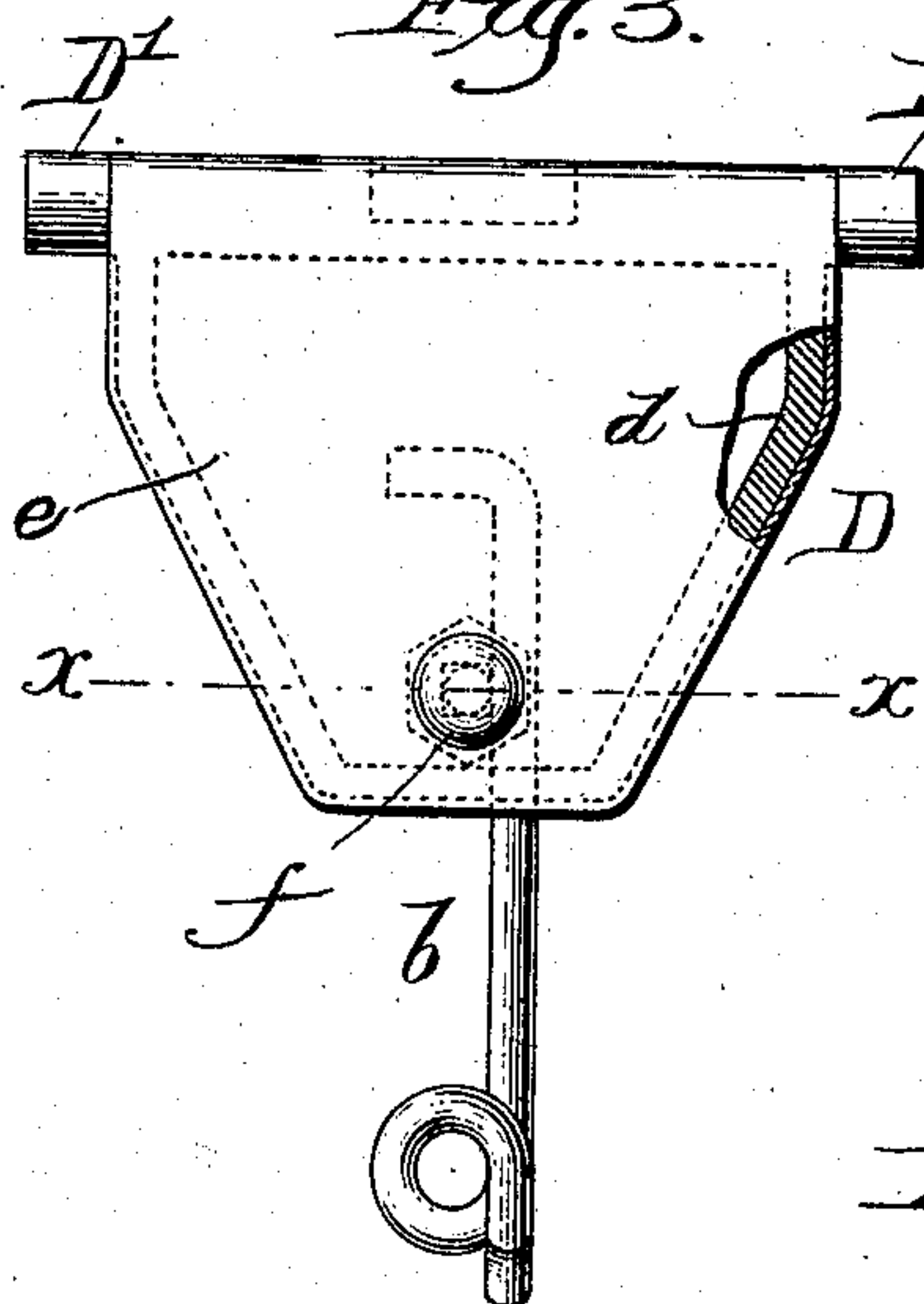


Fig. 4.

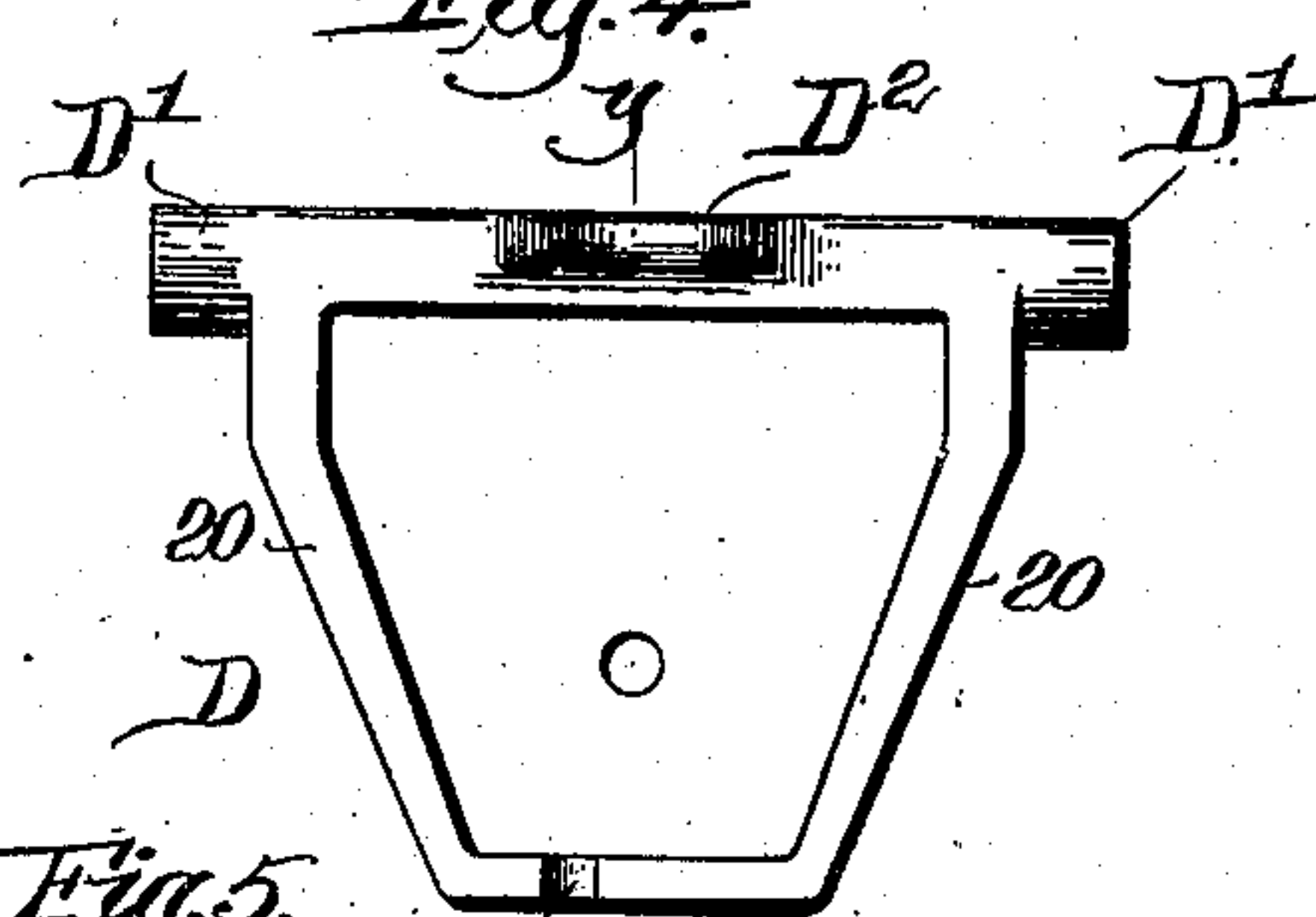


Fig. 5.

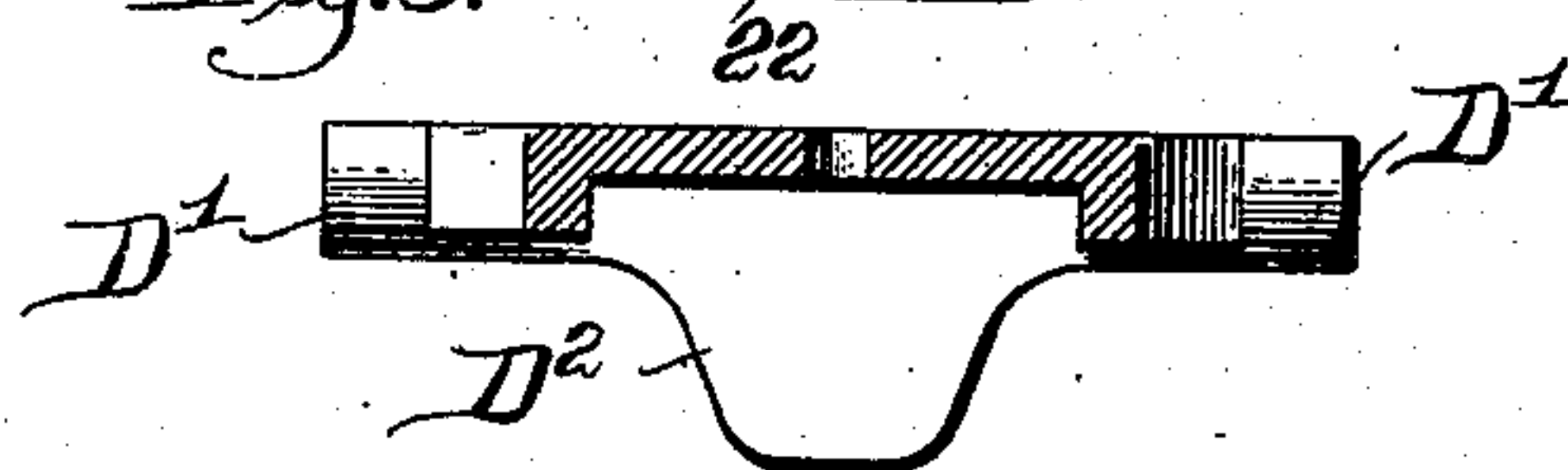
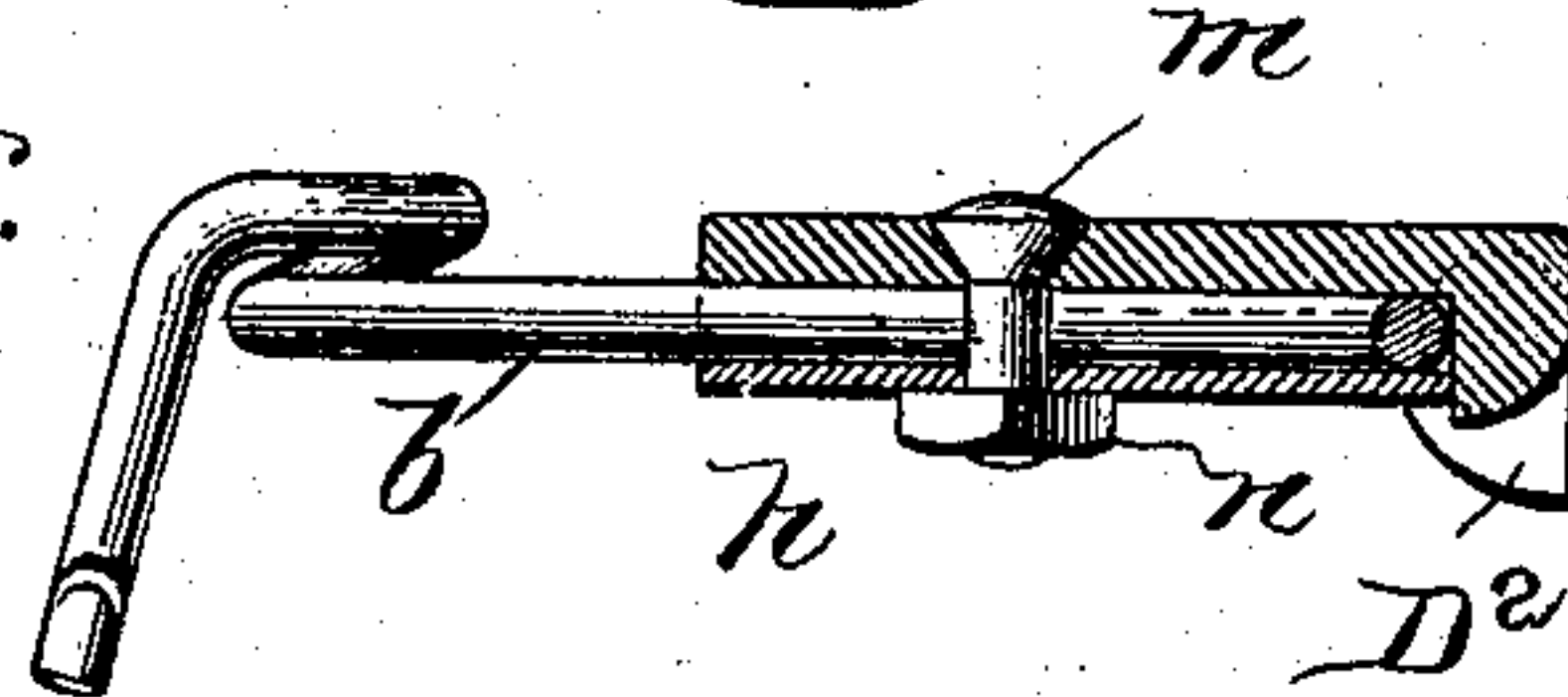


Fig. 6.



Witnesses:
 Thomas J. Drummond
 Joseph M. Ward.

Inventor:
 John E. Prest,
 by Lewis & Hughes Attys.

UNITED STATES PATENT OFFICE.

JOHN E. PREST, OF MELROSE, MASSACHUSETTS.

THREAD-GUIDE FOR SPINNING-MACHINES.

No. 868,005.

Specification of Letters Patent.

Patented Oct. 15, 1907.

Application filed March 16, 1907. Serial No. 362,639.

To all whom it may concern:

Be it known that I, JOHN E. PREST, a citizen of the United States, residing in Melrose, county of Middlesex, and State of Massachusetts, have invented an Improvement in Thread-Guides for Spinning-Machines, of which the following description, in connection with the accompanying drawing, is a specification, like letters on the drawing representing like parts.

This invention has for its object the production of novel and simple thread-guiding means wherein the finger-boards are provided with journals entering sockets sustained on a thread-board, the latter being sustained in any usual manner by any usual roller-beam.

Figure 1 in side elevation shows one of my improved finger-boards attached to a thread-board, the thread-board being partially in section; Fig. 2 is a front elevation of two of my improved finger-boards connected with the thread-board, one of the finger-boards being in section in the line *x*, Fig. 3; Fig. 3 is a top or plan view of one of the finger-boards detached from the thread-board; Fig. 4 is an under side view of a modified form of finger-board; Fig. 5 is a section thereof in the line *y*, and Fig. 6 is a section of the finger-board, Fig. 4, right side up with a guide-eye and under cover.

Referring to the drawing, let A represent part of any usual thread-board such as commonly employed in spinning machines. The depending portion A' of the thread-board is provided with a series of threaded holes for the reception of screws B that are passed through slots C in finger-board holders C', the slots permitting said holders to be adjusted to adapt themselves to the width of the finger-boards, and to enable the thread-eyes to be properly aligned with relation to the spindles, not shown.

The finger-board D has at its rear end journals D' and at its lower side a stop D². The upper side of the finger-board, Figs. 1 to 3, is provided near its outer edges with ribs *d* to thus leave a space *d'* for the shank of the thread-eye *b*, of usual construction, through which the thread is led to the spindles. The space in the finger-board is provided with an external sheet metal cover *e* shaped to embrace the top of the finger-board, and cover its side edges and front end, a sheet metal cover being much more desirable because of its smoothness and because flyings and lint will not adhere to a smooth surface as it will to a cast surface, and finishing the finger-board with the sheet metal cover obviates the necessity of finishing the finger-board by grinding and polishing a rough casting.

The thread-eye is held in its operative adjustment by means of a bolt *f* inserted through a hole in the cover, and through the finger-board, as shown in Fig. 2, where the threaded lower end of said bolt has applied thereto a nut 4. In some cases I propose to unite the underside of the finger board see Fig. 5, with a chamber leaving a downturned edge or rib 20, and I lay the shank of the thread-guide in a notch 22 and against the under side of the finger-board as in Fig. 6, and apply an under cover *h* to the under side of the finger-board, thus placing the shank of the thread-eye between the finger-board and smaller cover *h*, the cover being held in position by means of a bolt *m* inserted through the finger-board and cover, the threaded end of the bolt having applied thereto a nut *n*. In arranging a lot of finger-boards of my invention on a spinning machine, I locate, for instance, one of the finger-board holders at or near one end of the thread-board, and insert, for instance, the right hand journal D', see Fig. 3, of the finger-board into one of said holders until the shoulder at the inner end of the journal meets substantially the side of the loop-shaped upper end of the holder, as represented at the right in Fig. 2; then I apply a holder to the opposite journal of the finger-board and confine said holder in position with its right hand edge in contact with the edge of the finger-board at the inner edge of said journal. Then I take a second finger-board and apply its journal in the left hand end of the upper circular socket of the second holder, and so on. The finger-boards may be readily turned up and over onto the thread-board, and when the finger-boards are turned down into their operative position, the foot D² of said finger-boards meet the edge of the down-turned portion of the thread-board.

Having described my invention, what I claim as new and desire to secure by Letters Patent is:—

1. In a thread guide, a thread board, a series of independent finger-board holders connected therewith and presenting open journal spaces, combined with a series of finger boards each having fixed journals at its opposite sides near their lower ends, the two journals of each finger board entering the open spaces of two of said independent finger-board holders.

2. In a thread guide, a finger board comprising a body part having fixed journals at opposite edges near its inner end and a downturned foot located between said journals, said foot being adapted to contact with the thread board to constitute a stop to place the finger board in horizontal position.

3. In a thread guide, a series of finger board holders, a thread board to which said holders are connected, and a series of finger boards pivoted directly on said finger-

board holders, said finger boards having spaces, a sheet metal cover having flanged edges embracing said finger-boards, a guide eye inserted between said finger boards and sheet metal covers, and means to connect said cover and
5 thread board and to clamp the thread eye in its operative position.

4. In thread guide mechanism, a thread board, a finger board hinged thereto and having a flange or rib extending about its edges to leave a chamber between said ribs, a

thread eye, a sheet metal cover plate applied to one side 10 of said finger board and contacting with said eye, and a screw for confining said cover to said finger board.

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

JOHN E. PREST.

Witnesses:

GEO. W. GREGORY,

EVANGELINE C. BROWN.