

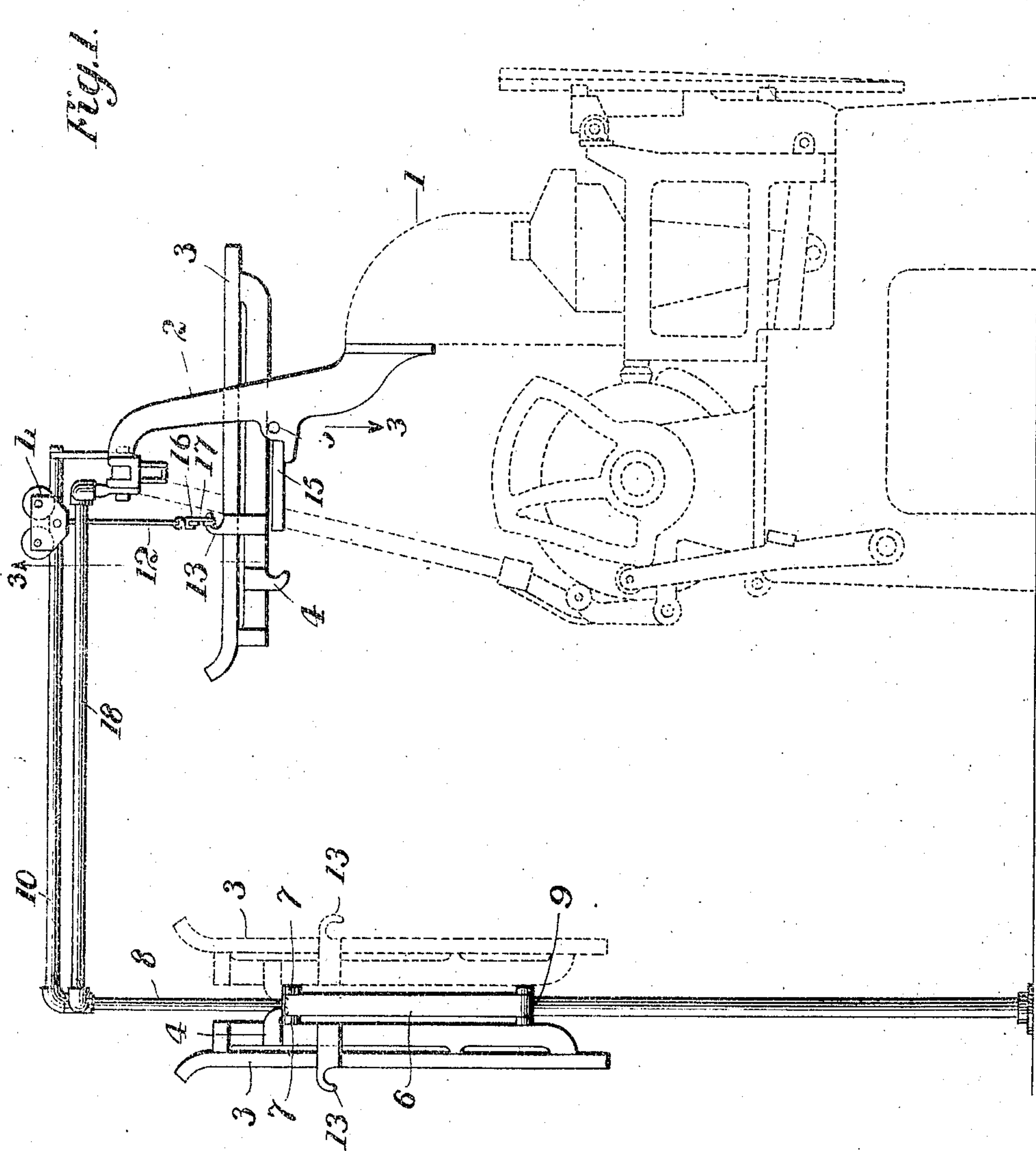
No. 828,323.

PATENTED AUG. 14, 1906.

G. KRETZSCHMAR.
ATTACHMENT FOR LINOTYPE MACHINES.

APPLICATION FILED JAN. 24, 1906.

2 SHEETS—SHEET 1.



Witnesses

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Fig. 2

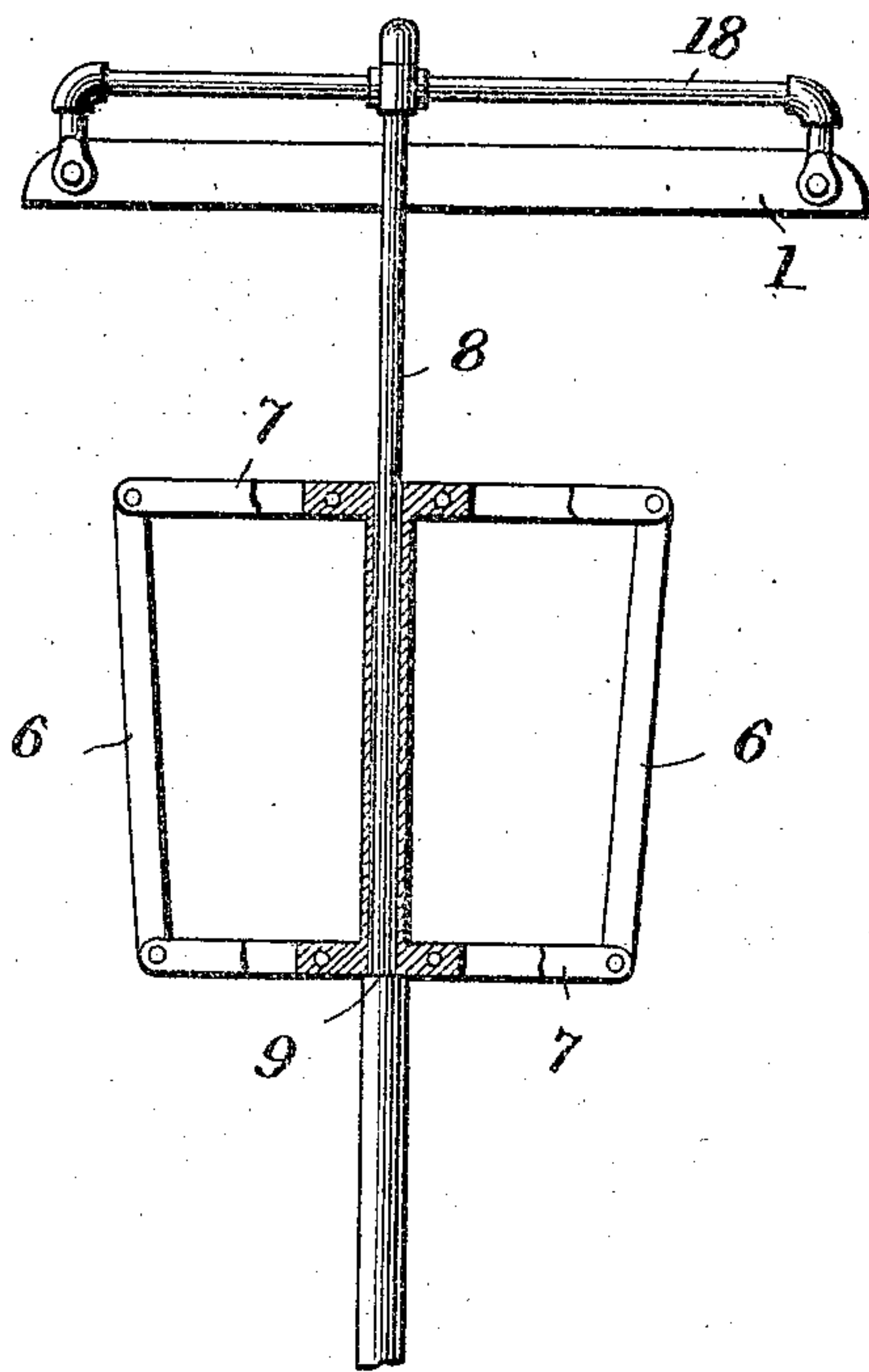
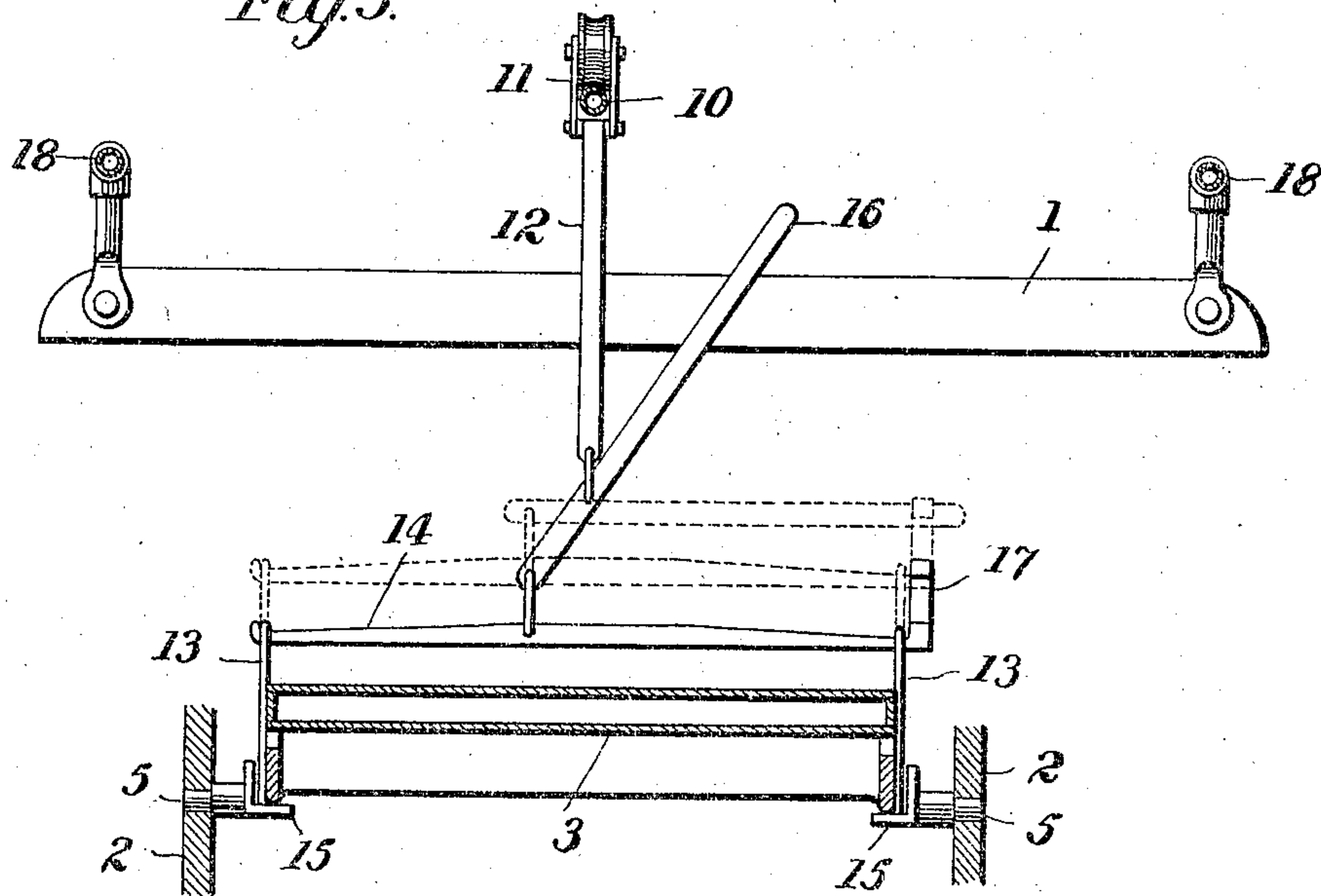


Fig. 3.



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UNITED STATES PATENT OFFICE.

GUSTAV KRETZSCHMAR, OF BALTIMORE, MARYLAND.

ATTACHMENT FOR LINOTYPE-MACHINES.

No. 828,323.

Specification of Letters Patent.

Patented Aug. 14, 1906.

Application filed January 24, 1906. Serial No. 297,615.

To all whom it may concern:

Be it known that I, GUSTAV KRETZSCHMAR, a citizen of the United States, and a resident of Baltimore, Maryland, have invented certain new and useful Improvements in Attachments for Linotype-Machines, of which the following is a specification.

In using linotype-machines it is frequently necessary to change from one font of matrices to another, and this is usually accomplished by changing the magazines containing the matrices. The magazines are heavy, and it usually requires two men to effect an exchange of magazines.

The object of the present invention is to provide the linotype mechanism with an attachment or apparatus by means of which a single operator may easily remove a magazine from the machine and replace it by another.

The invention will be described in connection with the accompanying drawings, in which—

Figure 1 is a side elevation of a linotype-machine provided with my improvements. Fig. 2 is a rear elevation, partly in section, of the magazine-holder; and Fig. 3 is an elevation looking forward from the line 3 3 of Fig. 1.

Referring to the drawings, 1 indicates in dotted outline a linotype-machine of the usual construction.

2 indicates the arms which support the magazine, and 3 indicates the magazine. When in operative position in the machine, the magazine 3 is suitably supported in the arms 2, being provided for this purpose with hooks 4, which engage supports 5.

My invention comprises a holder capable of sustaining two or more magazines and means for transporting magazines from the machine to the holder, and vice versa. The holder is preferably rotatable or movable, so that any magazine upon it may be brought into convenient position to be engaged by the carrier.

In the accompanying drawings, 6 indicates a holder adapted to receive and support two magazines, the holder being provided with transverse bars 7, upon which the magazines are hung by their hooks 4. The holder is pivotally supported upon a vertical rod 8, and it rests upon a shoulder 9 of said rod. The rod 8 preferably rests upon the floor which supports the linotype-machine. Extending horizontally between the rod 8 and

the linotype-machine is a horizontal rod or rail 10, upon which a wheeled carrier 11 runs. The rail 10 is preferably located above the machine, and from the carrier 11 depends a hanger 12, adapted to support a magazine. Each magazine is provided with a pair of lugs or hooks 13, which are adapted to engage with a beam 14, connected with the hanger 12. When a magazine is to be removed from the machine, it is first rocked into a substantially horizontal position, and I preferably provide brackets or supports 15 upon which the magazine may rest while it is being engaged with the carrier. I provide means whereby one person may raise the magazine from the supports 15 and engage it with the carrier without exertion. A lever 16 is pivotally connected with the hanger 12 and with the beam 14. On the end of the beam is a hook 17, adapted to receive and retain the end of the lever. The beam 14 is engaged with the hooks 13 while the lever 16 is in upright position, as shown in full lines in Fig. 3. The long arm of the lever is then pulled down and engaged with the hook 17, as shown in dotted lines in Fig. 3, thus raising the magazine from the supports 15 and suspending it on the carrier. The hanger 12 is in line with the middle of the beam 14 and the magazine is substantially balanced when suspended from the carrier, and it may be readily moved in any direction.

As shown, the holder 6 is adapted to hold two magazines; but it may be provided with supports for additional magazines. In any case the holder normally has one vacant space and the magazine from the machine is transported by the carrier and hung up in this vacant space. Thus the magazine shown upon the machine in full lines will be transported into the position upon the holder indicated by dotted lines. When the hooks 4 of the magazine are located above the bar 7 of the holder, the lever 16 is unhooked and the magazine lowered until it is engaged with the bar. The holder is then rotated to bring the desired magazine into convenient position to be engaged by the beam 14, and the magazine is then raised and transported to the machine and placed upon the supports 15 ready for engagement with the machine.

By means of the apparatus described, a magazine may be removed from a linotype-machine and replaced by another quickly and with but little exertion by a single operator. The rod 8 and the rail 10 may, if

desired, be suitably braced. In the drawings two lateral braces 18, connecting the rod 8 with the frame of the machine, are shown.

It will be evident that various changes in the details of construction may be made without departing from the spirit of the invention, and I do not, therefore, limit myself to the exact construction and arrangement illustrated and described.

What I claim, and desire to secure by Letters Patent, is—

1. The combination with a linotype-machine, of a holder adapted to support a plurality of magazines, and a movable magazine-carrier adapted to transport magazines between the machine and holder.

2. The combination with a linotype-machine, of a movable holder adapted to support a plurality of magazines, and a carrier movable between the machine and the holder and adapted to transport a magazine.

3. The combination with a linotype-machine, of a rotatable holder adapted to support a plurality of magazines, and a carrier movable between the machine and the holder and adapted to transport a magazine.

4. The combination with a linotype-machine, of a holder adapted to support a plurality of magazines, a rail extending between said holder and the machine, a carrier supported on said rail, and means depending from the carrier and adapted to engage and support a magazine.

5. The combination with a linotype-machine, of a holder adapted to support a plurality of magazines, a rail extending between said holder and the machine, a carrier supported on said rail, and means depending from the carrier for raising and supporting a magazine.

6. The combination with a linotype-machine, of a holder adapted to support a plurality of magazines, a rail extending between said holder and the machine, a carrier supported on said rail, and means depending from the carrier, comprising a lever for raising the magazine and means for retaining the lever to hold the magazine in its raised position.

7. The combination with a linotype-machine, of a holder adapted to support a plurality of magazines, a rail extending between said holder and the machine, a carrier supported on said rail, and means depending from the carrier comprising a hanger, a lever pivotally connected with the hanger, a beam connected with the lever and adapted to be engaged with a magazine and means for engaging the free end of the lever with the beam.

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

GUSTAV KRETZSCHMAR.

Witnesses:

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