

W. H. SCHARF.
 LINOTYPE MACHINE.
 APPLICATION FILED MAY 31, 1907.

912,180.

Patented Feb. 9, 1909.

Fig. 1.

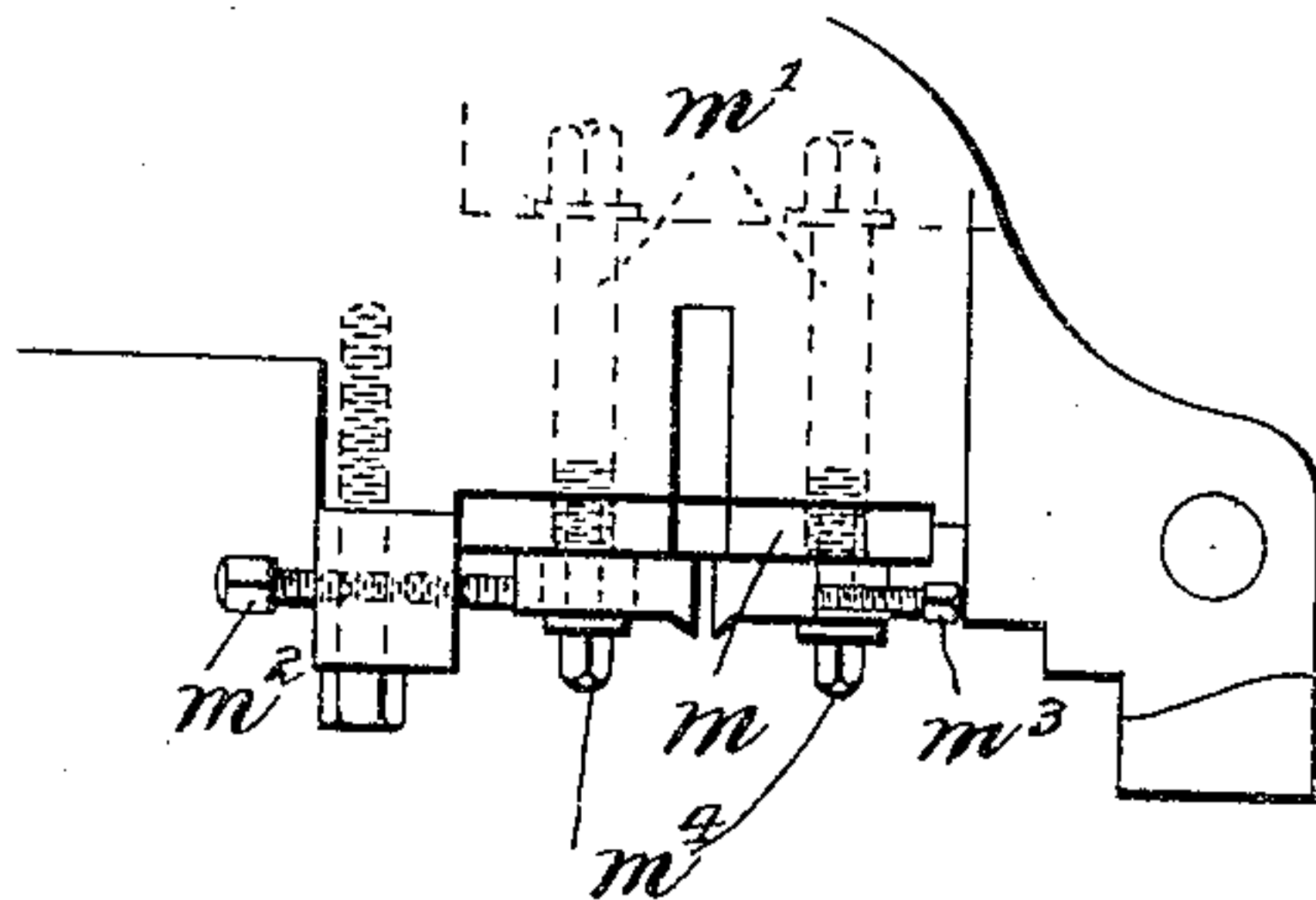


Fig. 2.

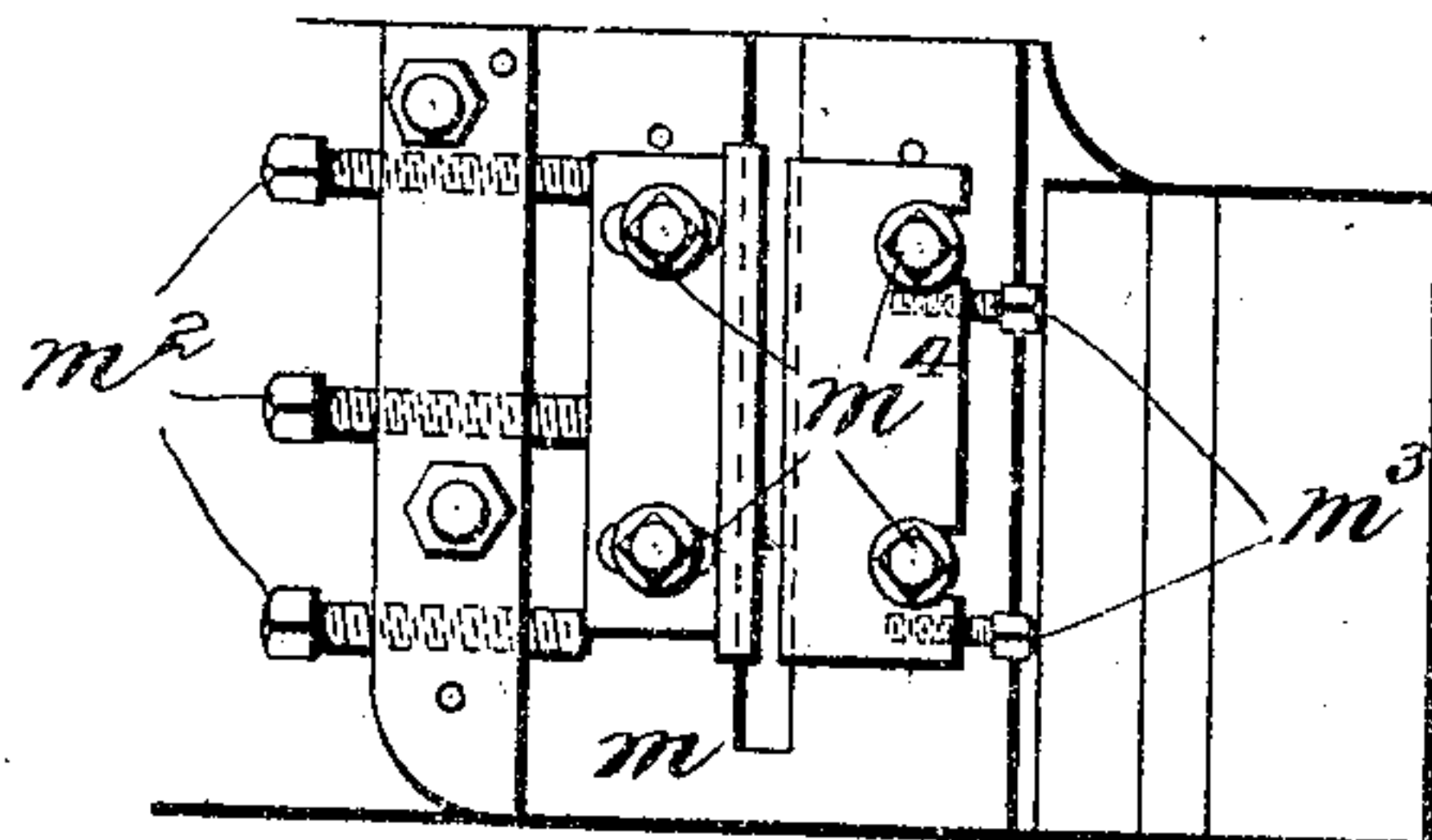
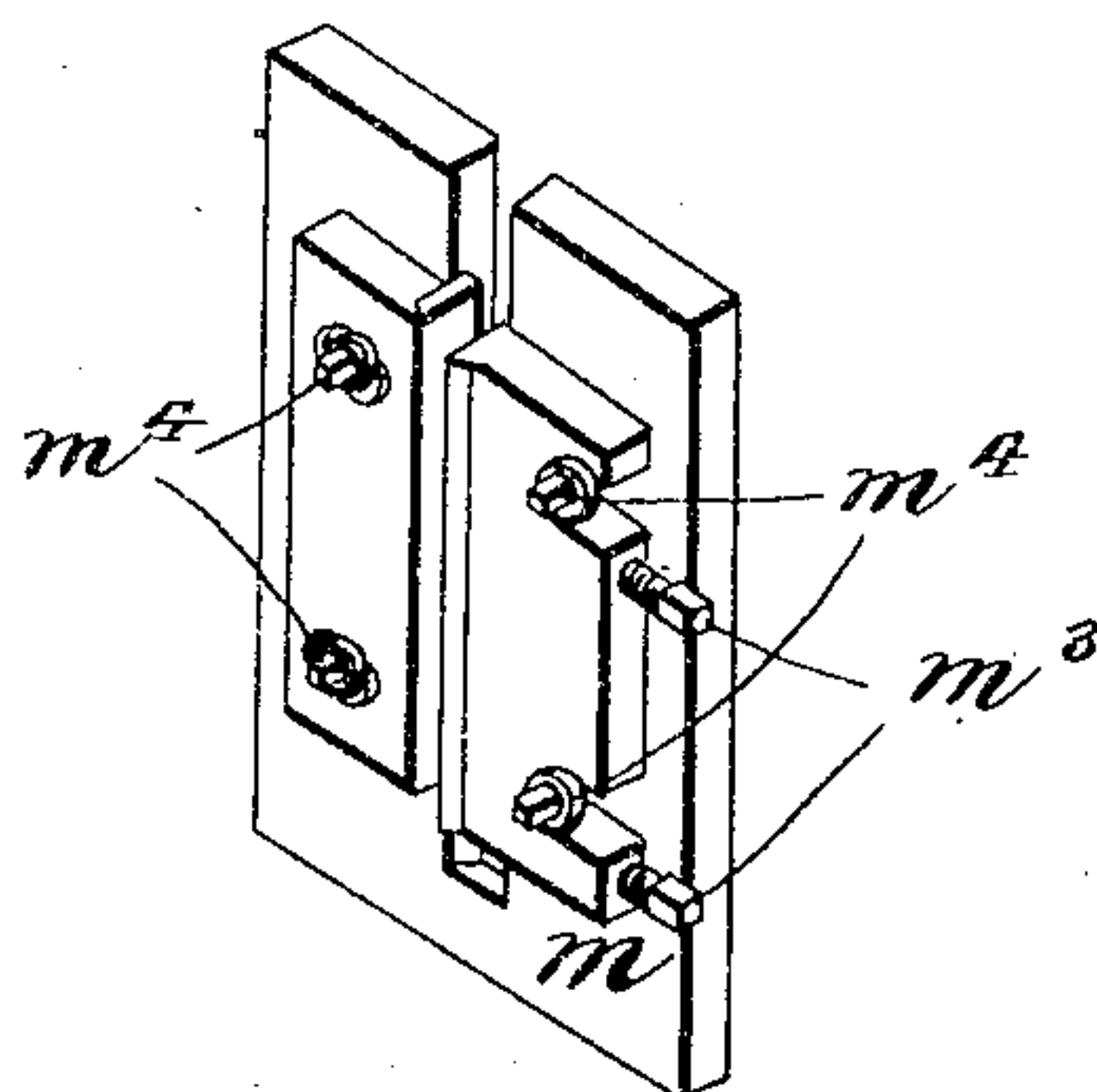


Fig. 3.



Attest:

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 by
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UNITED STATES PATENT OFFICE.

WILLIAM HERMANN SCHARF, OF MONTREAL, QUEBEC, CANADA, ASSIGNOR TO TORONTO TYPE FOUNDRY COMPANY LIMITED, OF TORONTO, CANADA, A CORPORATION OF CANADA.

LINOTYPE-MACHINE.

No. 912,180.

Specification of Letters Patent.

Patented Feb. 9, 1909.

Original application filed March 22, 1906, Serial No. 307,358. Divided and this application filed May 31, 1907.
Serial No. 376,707.

To all whom it may concern:

Be it known that I, WILLIAM HERMANN SCHARF, residing in the city of Montréal, in the Province of Quebec and Dominion of Canada, have invented certain new and useful Improvements in Linotype-Machines, of which the following is a specification, reference being had to the accompanying drawing, forming a part hereof.

10 The invention relates particularly to the trimming knives for the cast slugs.

Heretofore, it has generally been a difficult matter for the attendant to adjust the slug trimming knives properly, this having been 15 due in part to the fact that the knives were secured directly upon the machine.

The object of this invention is to render the adjustment of the knives easy and to practically obviate the necessity of adjustments altogether. In accordance with the 20 invention a separate plate is provided for carrying the knives, which plate is adapted to be set into the machine; thus several sets of knives having different adjustments 25 may be provided, so that when a different adjustment is required, the knife carrying plate with one set of knives may simply be replaced by another knife carrying plate with a different set of knives. It has been found 30 that such arrangement conduces to great accuracy of operation and saves considerable time and trouble on the part of the attendant.

In the drawings, in which the invention has been embodied, Figure 1 is a plan view of 35 a portion of the frame of a linotype machine with a knife plate secured thereto. Fig. 2 is a view of the same in elevation, and Fig. 3 is a perspective view of the knife plate with the knives attached thereto, said plate being detached from the machine. 40

The knife plate *m* is slotted sufficiently to permit the passage of the linotype slug there-through and has secured thereto in any suitable manner a pair of knives. This plate is 45 made to fit a recess in the frame of the machine so that when it is mounted upon the machine it will be brought into a predetermined position. It may be held upon the machine by screws *m'*, and limiting screws 50 *m²* and *m³* may be provided either in the knives themselves or in the frame of the ma-

chine for preventing the knives from spreading as the slug passes between them. With such a construction the knives may be properly adjusted upon the plate at the factory and held in proper adjustment by the screws *m⁴*, or any other means for fastening the same to the plate, in which condition they may be received by the operator and placed upon the machine. In placing the 60 knives upon the machine all the operator has to do in the present construction is to secure the plate *m* thereto by means of the screws *m'* and then turn the screws *m²* into such positions as will bring them squarely against one 65 knife and the screws *m³* into such positions as will bring them squarely against the frame of the machine so that any thrust of the knives tending to separate them will be taken up by the frame of the machine. By this 70 means, it will be obvious, the operator is relieved of the difficulty and annoyance of having to adjust the knives for himself.

It will be understood that variations may be made from the construction shown and 75 described without departing from the spirit of the invention and that the invention is not necessarily limited to the present embodiment of the same.

I claim as my invention:

1. In a linotype machine, the combination with a knife-carrying plate separable therefrom; knives secured to said plate, means to adjust the knives, and a frame in which the plate is received, said frame forming a part of 85 the machine and having a projecting portion, the means to adjust the knives bearing against the projecting portion of the frame so as to maintain the knives in adjustment and prevent them from spreading. 90

2. In a linotype machine, the combination with the frame of the machine of a knife-carrying plate, knives thereon, adjusting screws in one knife adapted to bear against the frame, and adjusting screws in the frame 95 adapted to bear against the other knife.

This specification signed and witnessed this 23rd day of May 1907.

WILLIAM HERMANN SCHARF.

Signed in the presence of—

LUCIUS E. VARNEY,

HELEN L. PIERCE.