

No. 682,466.

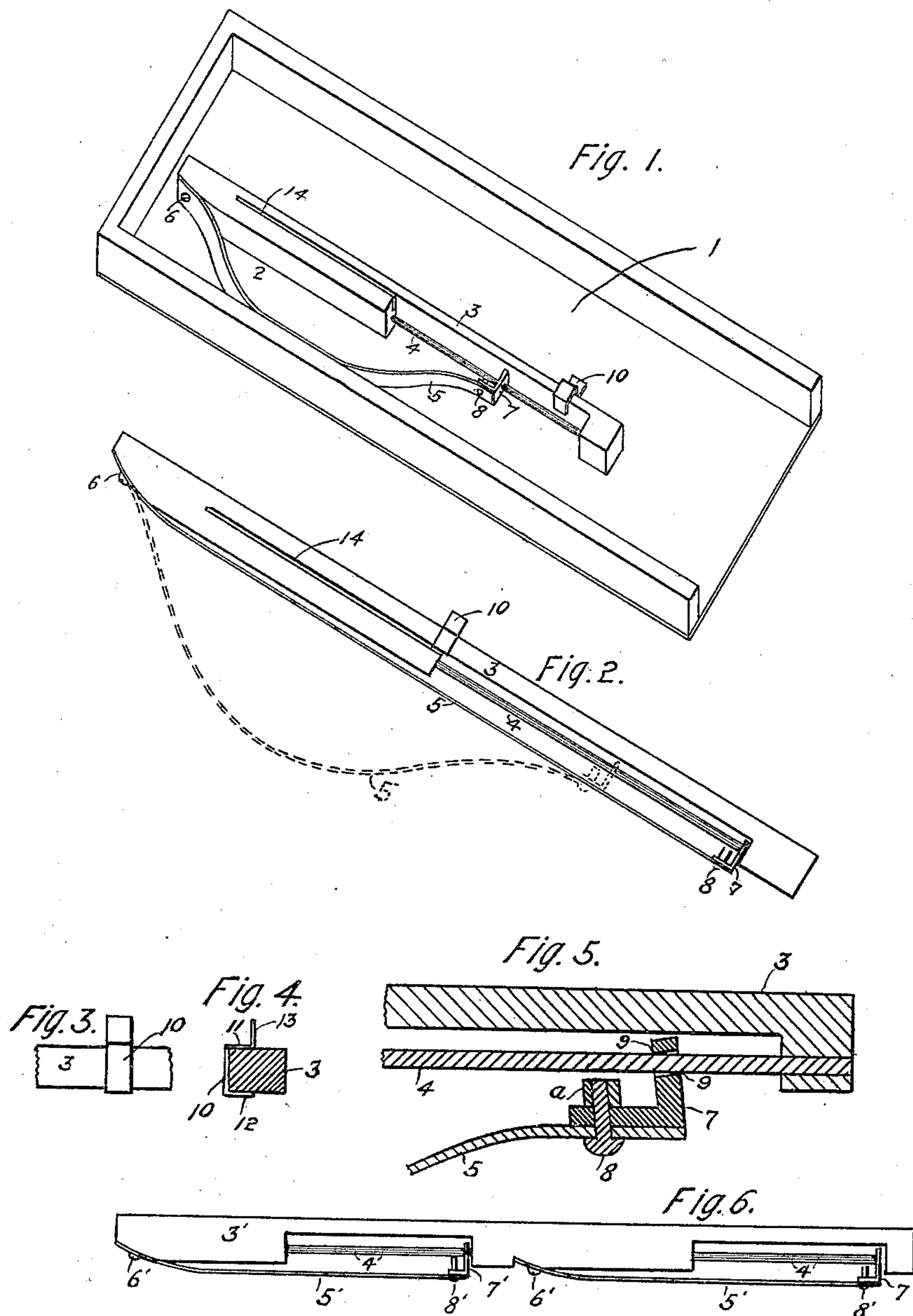
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E. D. HARDY & W. W. REBUSCHATIS.

TYPE LOCKING DEVICE.

(Application filed Apr. 17, 1901.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

EDWARD D. HARDY AND WILLIAM W. REBUSCHATIS, OF WASHINGTON,
DISTRICT OF COLUMBIA.

TYPE-LOCKING DEVICE.

SPECIFICATION forming part of Letters Patent No. 682,466, dated September 10, 1901.

Application filed April 17, 1901. Serial No. 56,290. (No model.)

To all whom it may concern:

Be it known that we, EDWARD D. HARDY and WILLIAM W. REBUSCHATIS, citizens of the United States, and residents of the city of Washington, in the District of Columbia, have invented certain new and useful Improvements in Type-Locking Devices, of which the following specification is a complete disclosure.

10 This invention relates to an improvement in adjustable sidesticks for locking type in a galley; and it consists in a sidestick provided with an adjustable spring or springs arranged at the side of the stick and adapted to exert force to press the sidestick into firm engagement with the type in the galley.

15 It also consists in certain details of construction referred to and described below in the accompanying drawings, forming a part of this specification, and in which drawings like characters indicate corresponding parts.

20 Figure 1 is a perspective view showing our invention arranged in a galley. Fig. 2 is a side elevation showing our sidestick with the spring in normal and in bent position. Figs. 3 and 4 are detail views of the type-brace mounted on the sidestick. Fig. 5 is a sectional view of the clamp for the movable end of the spring, said view being somewhat enlarged. Fig. 6 is a side elevation of a slight modification of our sidestick with the type-brace omitted therefrom.

25 The numeral 1 indicates the usual galley in which type is set up for taking proof-prints and before removal to a permanent locking form or chase.

30 The numeral 2 indicates in general our sidestick, which consists of a bar of wood or metal cut out on one side to form an extended recess. In this recess is secured a rod 4, made of metal, and along which the end of the adjustable spring is arranged to slide.

35 5 indicates a spring secured at one end to one end of the bar, as by a screw 6 or equivalent means. The other end of the spring is attached to a metallic angle-piece 7, as by a rivet or small bolt 8, provided with a washer A if a rivet is used, or a nut A if a bolt is employed. The downturned end of the angle-piece is perforated for the passage of the rod 4, over which it is slipped. The construc-

tion at this end of the spring forms a friction-clamp having biting edges 9 to grip the rod at any point along the same to which it may be moved. The nut or washer A must extend nearly to the rod 4, so that only just sufficient rocking motion of the angle-piece is permitted to insure the latter sliding freely on the rod when slight pressure is made at or about the location of the rivet or bolt 8.

40 The operation of the parts so far described is as follows: The sidestick is placed in the galley with the spring next the raised edge or side of the galley. The movable end of the spring is shoved along the rod until the opposite side of the stick presses firmly against the type set up in the galley. The clamp holds the spring in the position into which it is pushed and the spring exerts a continuous and firm pressure through the bar on the type. It will be observed that the action is practically instantaneous and that the range of adjustment of the bar laterally in the galley is very considerable. This latter feature we regard as very important, as in other sidesticks with which we are acquainted only a very limited lateral adjustment is possible. The spring is easily released by pressing on the clamp end of the spring, and the same will at once assume the position shown in full lines in Fig. 2. The part 10 is a type-brace consisting of a sheet-metal clip formed into U shape at one end and an outward-extending part 13. The U-shaped part through its sides 11 and 12 frictionally engages the part of the bar at the bottom of the recess and is adapted to be slid along the bar. Said bar has a slot 14 in one side to allow for further movement of the type-brace. The part 13 engages a "slug" or the like placed at the bottom of the type already set up and is used to additionally brace the type as each line is placed in position from the composing-stick.

45 In the modification shown in Fig. 6 a bar provided with two springs and clamps is shown. These springs and clamps are substantially the same in construction as those already described and the bar differs only in that it is longer than that shown in the first five figures and is provided with two recesses. The rod 4' may be continuous or separate.

The modification is really a duplication of the preferred form and is designed to be used in connection with a long galley. The clamping ends of the springs may be at the center 5 and end of the bar, as shown, or both may be at the center or both at the ends.

Thus it is seen our invention is susceptible of modification and we do not wish to be limited to the exact features of construction we 10 have described and shown.

Having thus described our invention and the preferred method of practicing it, what we claim as novel, and desire to secure by Letters Patent of the United States, is as follows: 15

1. A type-locking device comprising a side bar and a single spring attached thereto and adapted to exert pressure at two points on said bar and through said bar upon the type 20 to hold the same in position, substantially as described.

2. An adjustable type-locking device comprising a side bar and a single adjustable spring attached thereto and adapted to exert 25 pressure at two points on said bar and through said bar upon the type to hold the same in position, substantially as described.

3. An adjustable type-locking device comprising a side bar, an adjustable spring fixed 30 thereto at one end and movable along the bar at the other end, and means for holding the movable end of the spring in its adjusted position substantially as described.

4. An adjustable type-locking device comprising a side bar, an adjustable spring fixed 35 thereto at one end and movable along the bar at the other end and means acting automatically to hold the movable end of the spring in its adjusted position substantially 40 as described.

5. An adjustable type-locking device comprising a side bar, an adjustable spring fixed

thereto at one end and movable along the bar at the other end and a friction-clutch secured to the movable end and adapted to 45 hold the spring in its adjusted position, said clutch being releasable by applying pressure on the movable end of the spring substantially as described.

6. An adjustable type-locking device comprising a side bar, an adjustable spring fixed 50 thereto at one end, a longitudinal recess in the bar, a rod mounted in the bar and traversing the recess, an angular member secured to the movable end of the spring and 55 slidable along the rod and means to secure the angular member at any point in its movement on the rod substantially as described.

7. An adjustable type-locking device comprising a side bar, an adjustable spring fixed 60 thereto at one end, a longitudinal recess in the bar, a rod mounted in the bar and spanning the recess from end to end, an angular member secured to the movable end of the spring, one part of said member being aper- 65 tured to fit the rod, said member slidable on the rod and adapted to grip the same at any point in its adjustment substantially as described.

8. A printer's sidestick comprising a bar, a 70 flat spring laid along said bar, secured thereto at one end and adjustable thereon at the other end, and means to automatically lock said movable end of the spring to the bar at any point in its adjustment substantially as de- 75 scribed.

In witness whereof we have hereunto set our signatures in the presence of two witnesses.

EDWARD D. HARDY.

WILLIAM W. REBUSCHATIS.

Witnesses:

E. NOUD,

M. NOUD.