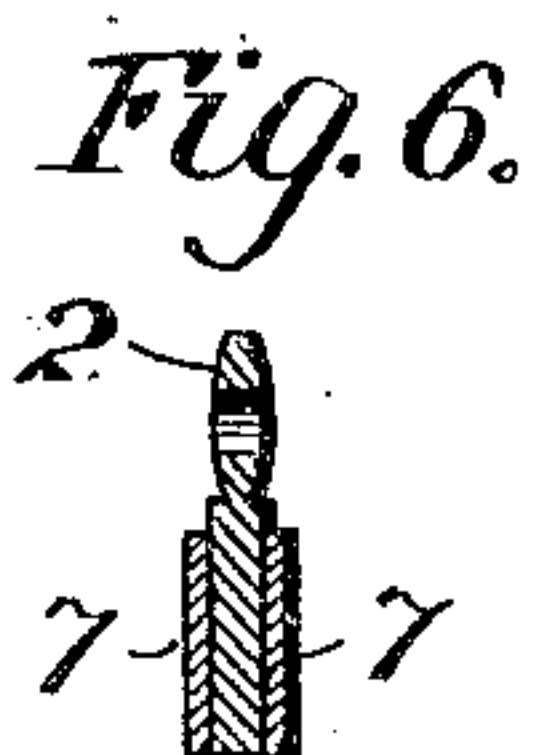
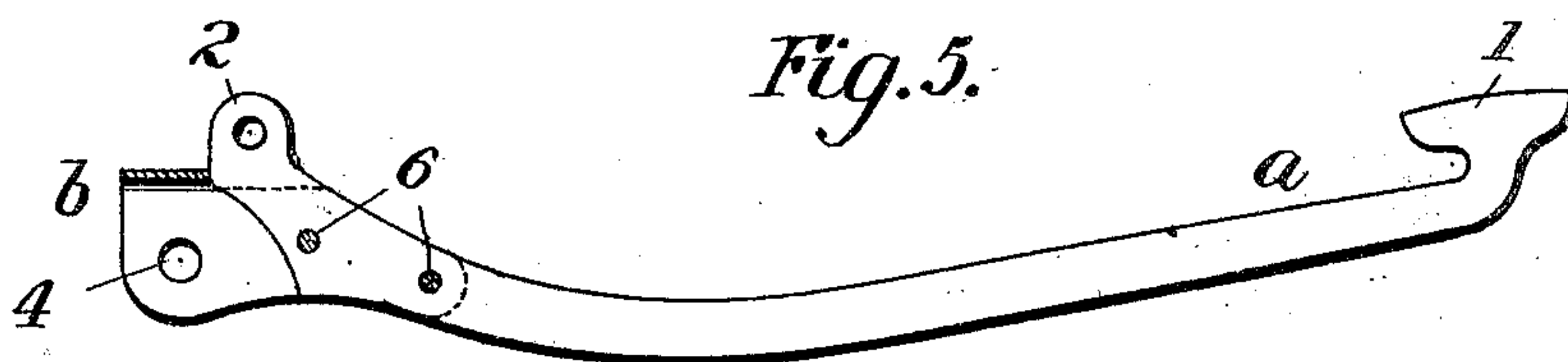
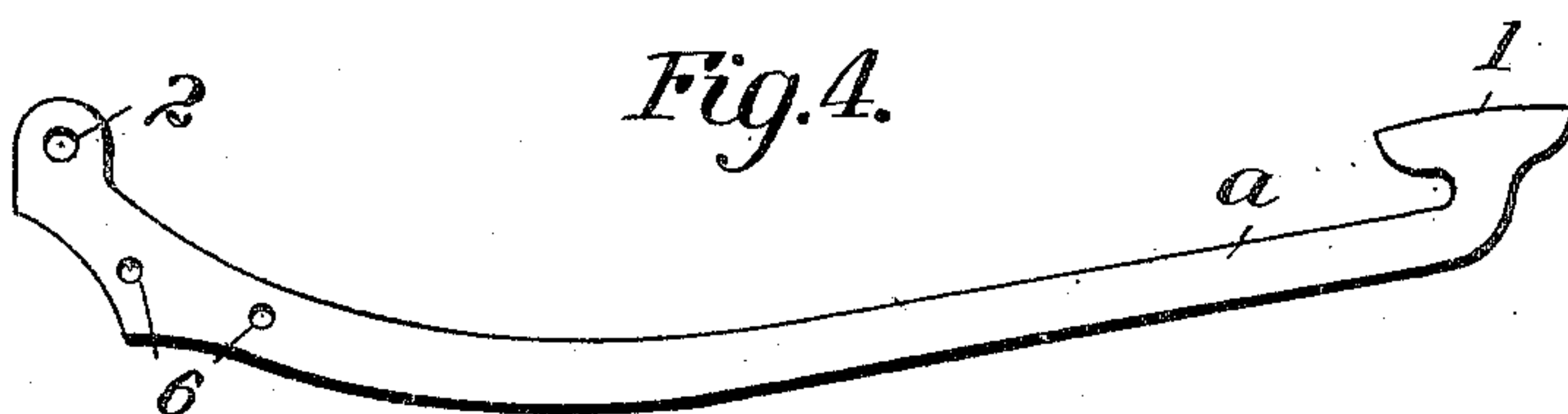
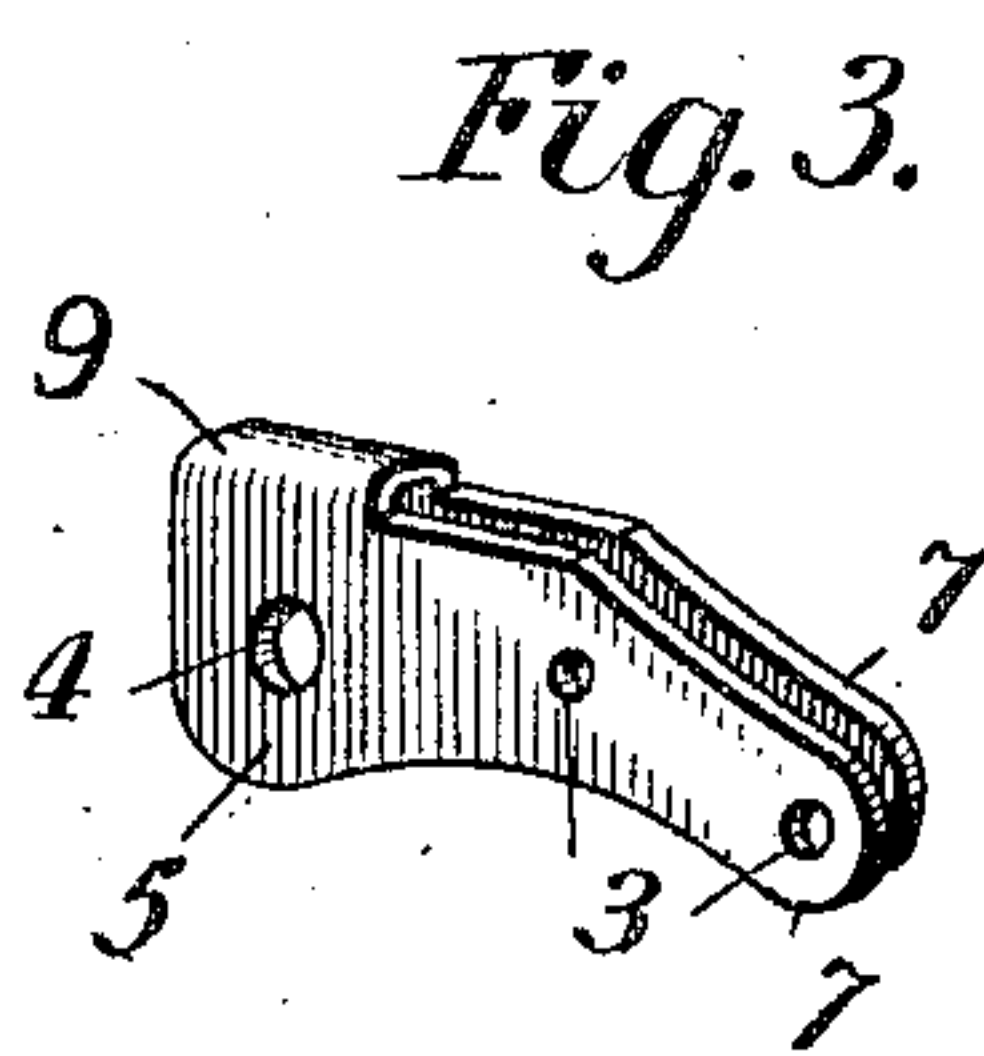
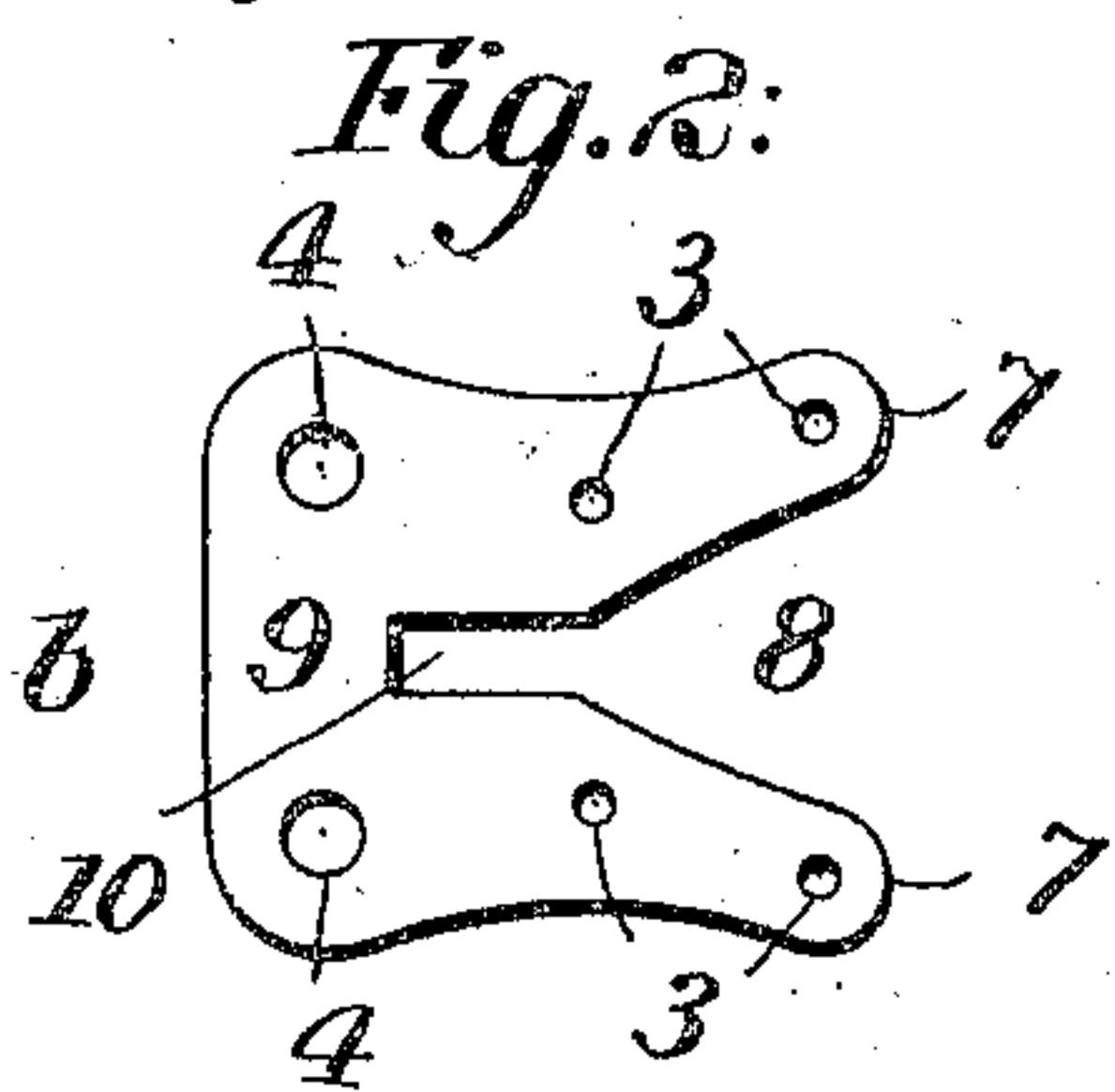
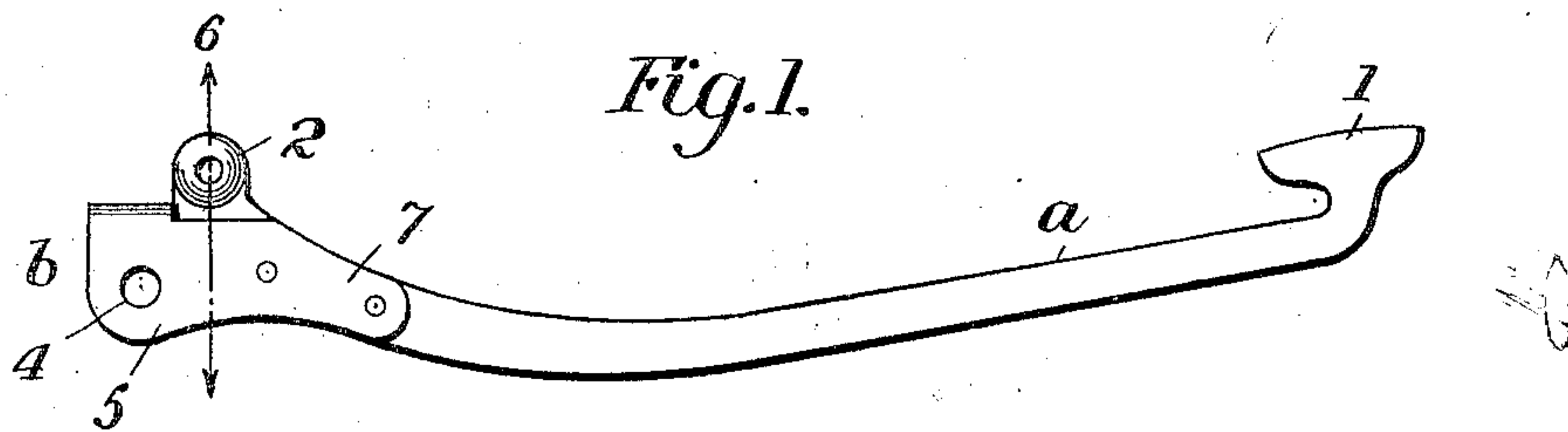


No. 822,386.

PATENTED JUNE 5, 1906

F. A. PETERSON.
TYPE BAR FOR TYPE WRITING MACHINES.
APPLICATION FILED JUNE 25, 1904.



Witnesses
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UNITED STATES PATENT OFFICE.

FRANS A. PETERSON, OF SYRACUSE, NEW YORK, ASSIGNOR TO L. C. SMITH & BROS. TYPEWRITER COMPANY, OF SYRACUSE, NEW YORK, A CORPORATION OF NEW YORK.

TYPE-BAR FOR TYPE-WRITING MACHINES.

No. 822,386.

Specification of Letters Patent.

Patented June 5, 1906.

Application filed June 25, 1904. Serial No. 214,137.

To all whom it may concern:

Be it known that I, FRANS A. PETERSON, a citizen of the United States, residing at Syracuse, Onondaga county, State of New York, have invented certain new and useful Improvements in Type-Bars for Type-Writing Machines, of which the following is a specification.

This invention relates to improvements in type-bars for type-writing machines, and especially in type-bars of the class illustrated in Letters Patent No. 747,545, dated December 22, 1903. The type-bar described in this patent consisted of a single piece of metal, the U-shaped bearing-guard being formed either by constructing the bar of folded sheet metal or by milling a slot in the end of a solid bar.

The present invention relates to a type-bar of improved structure which is cheaper to manufacture and more satisfactory than type-bars constructed in the manner above set forth.

The invention will now be described in detail, reference being had to the accompanying drawings, in which—

Figure 1 is a side view of one of the improved type-bars. Fig. 2 is a view of the shield or pivotal end before bending. Fig. 3 shows the shield doubled and ready to receive the bar proper. Fig. 4 is a side view of the blank for the bar proper. Fig. 5 is a view similar to Fig. 1, one side of the shield being removed. Fig. 6 is a section on the line 6 of Fig. 1.

Referring to the drawings, *a* indicates the type-bar proper, which is preferably punched or otherwise formed from sheet-steel of suitable thickness. This bar has a head 1 at one end to receive the type and an upwardly-projecting eye 2 at the other end to which a link may be connected for operating the bar.

The U-shaped pivotal end *b* is also punched or formed from thin flat metal, preferably steel. The original blank is in the form shown in Fig. 2, but without perforations. It is then perforated with suitable rivet-holes 3 and with holes 4 for the type-bar pivot. The blank *b* is then bent double along its middle line into the form shown in Figs. 1 and 3, in

which the pivotal end 5 is substantially U-shaped, with the pivot-holes 4 in line or registering with each other. The bar-blank *a* is provided with suitable rivet-holes 6, corresponding to the rivet-holes in the bearing-blank *b*, and when the parts are assembled these holes 3 6 register, and the parts may be connected by rivets, as shown in Figs. 1 and 5. Other means of connecting the bar might be used, such as brazing or soldering.

It will be noted that the blank *b* has two wings 7, separated by a Y-shaped space 8, the two wings being united by a central portion 9, which is less than half the length of the blank. On account of the small amount of metal along the central line 9 the bending is accomplished with slight power. The Y-shaped notch terminates in a narrow slot 10, having a square inner end. In assembling the parts the wings 7 fit and conform to the end of the bar *a*, while the eye 2 projects through the slot 10 and fits closely against the end of the slot to prevent dirt or rubbings from the platen entering the type-bar joint. The object in making the bearing of the type-bar U-shaped, as above described, is to protect the type-bar bearing from dust and dirt and also to provide parallel bearing-faces adjacent to the pivot to steady and guide the type-bar, as set forth in the above-mentioned patent.

The improved two-part type-bar described is cheaper and easier to manufacture and its bearing can be made more accurately and of better material than a bearing which is integral with the bar, whether folded or milled. Furthermore, the manufacture can be carried on with lighter and less expensive machinery.

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

1. In a two-part type-bar for type-writing machines, the combination with a bar *a* having a head 1 and an eye 2, of a U-shaped bearing and dust-shield having wings extending along said bar both in front and in rear of said eye, and means for connecting said bearing portion with said bar.

2. In a two-part type-bar for type-writing

machines, the combination with a bar proper
having a suitable head 1, of a folded U-
shaped bearing having its closed side upper-
most to form a dust-shield and having two
5 projecting wings embracing said bar, and
means for connecting the same to the bar.

In testimony whereof I have signed my

name to this specification in the presence of
two subscribing witnesses.

FRANS A. PETERSON.

Witnesses:

C. M. STEVENS,

CARL GABRIELSON.