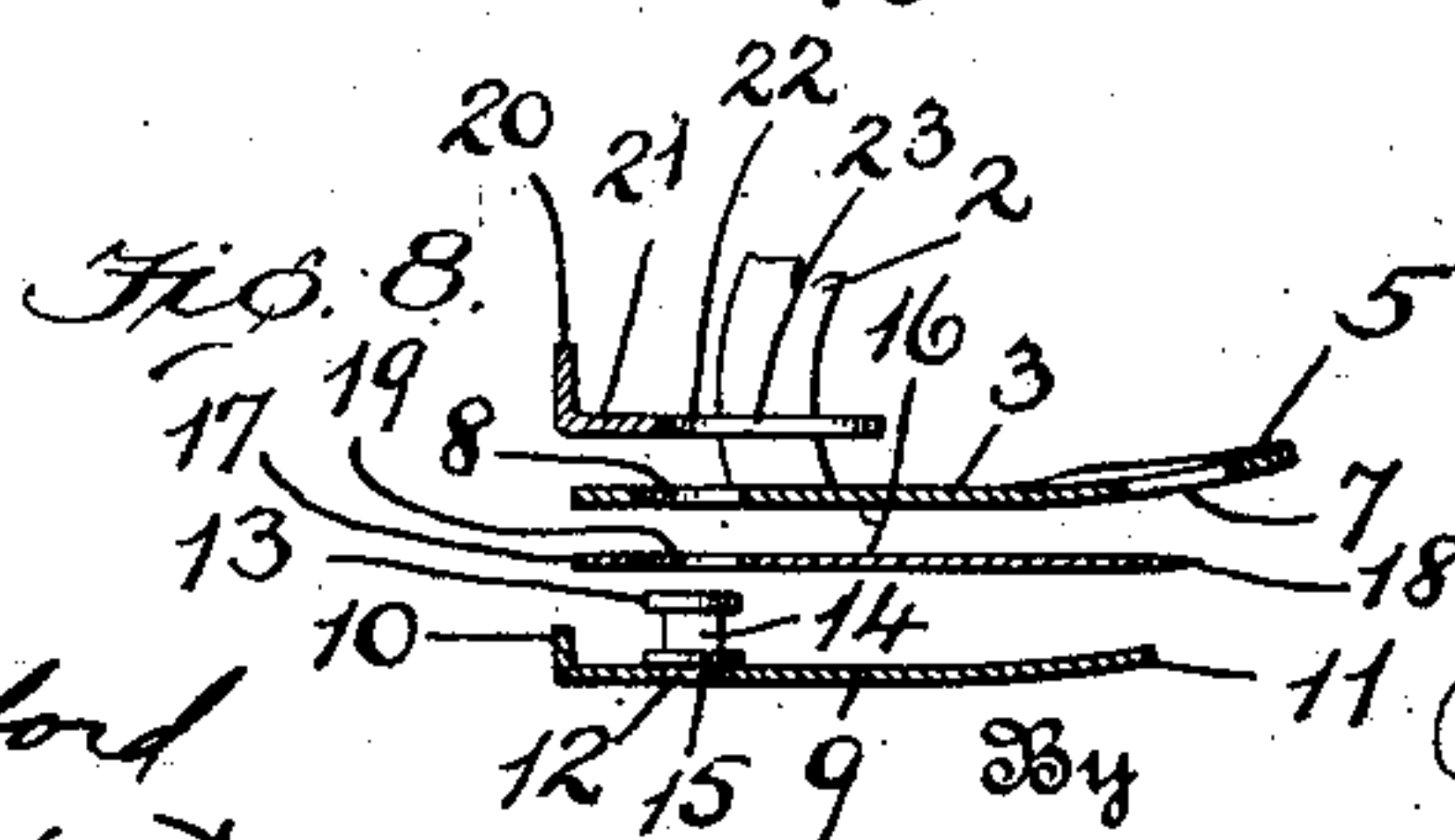
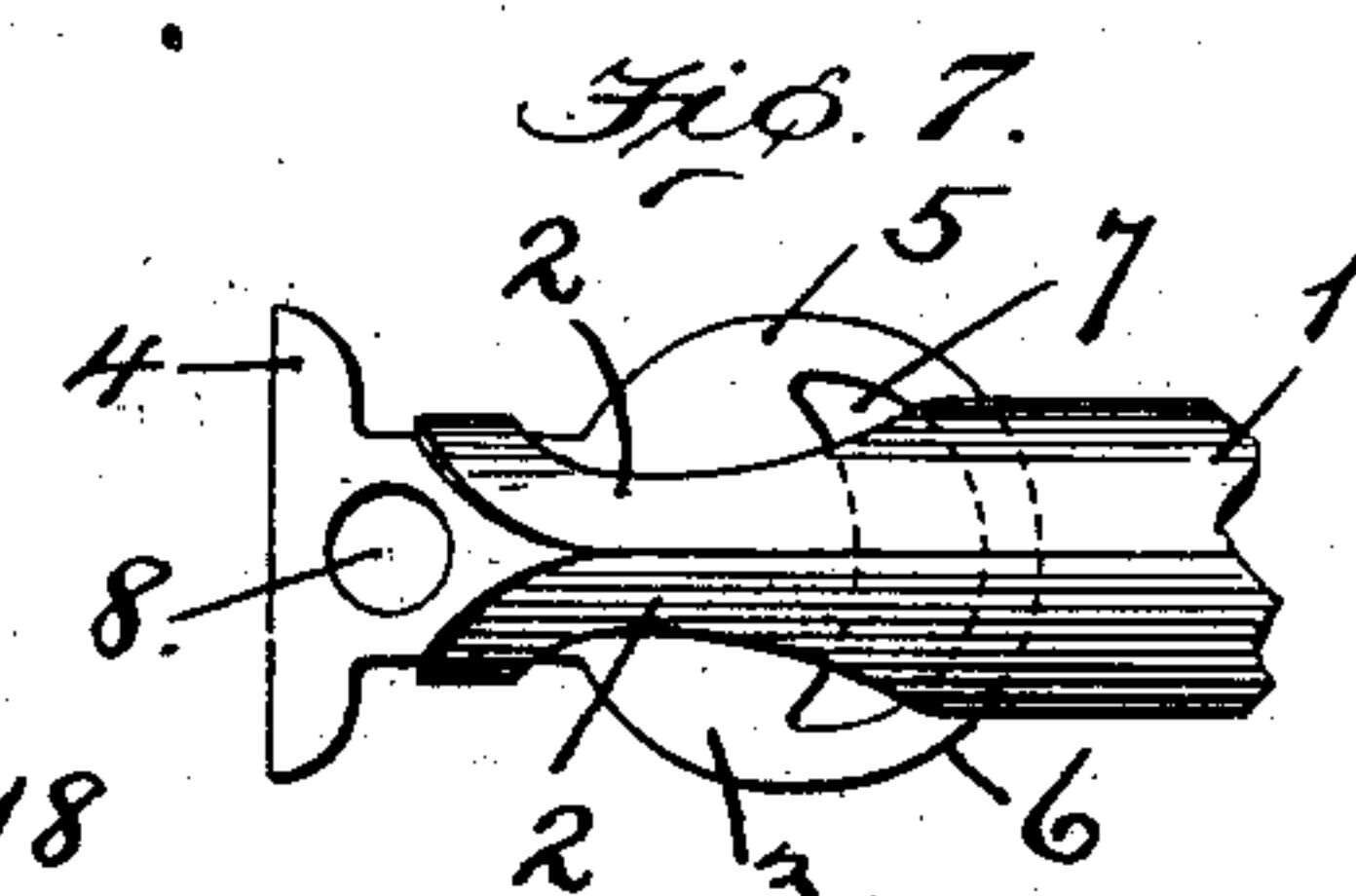
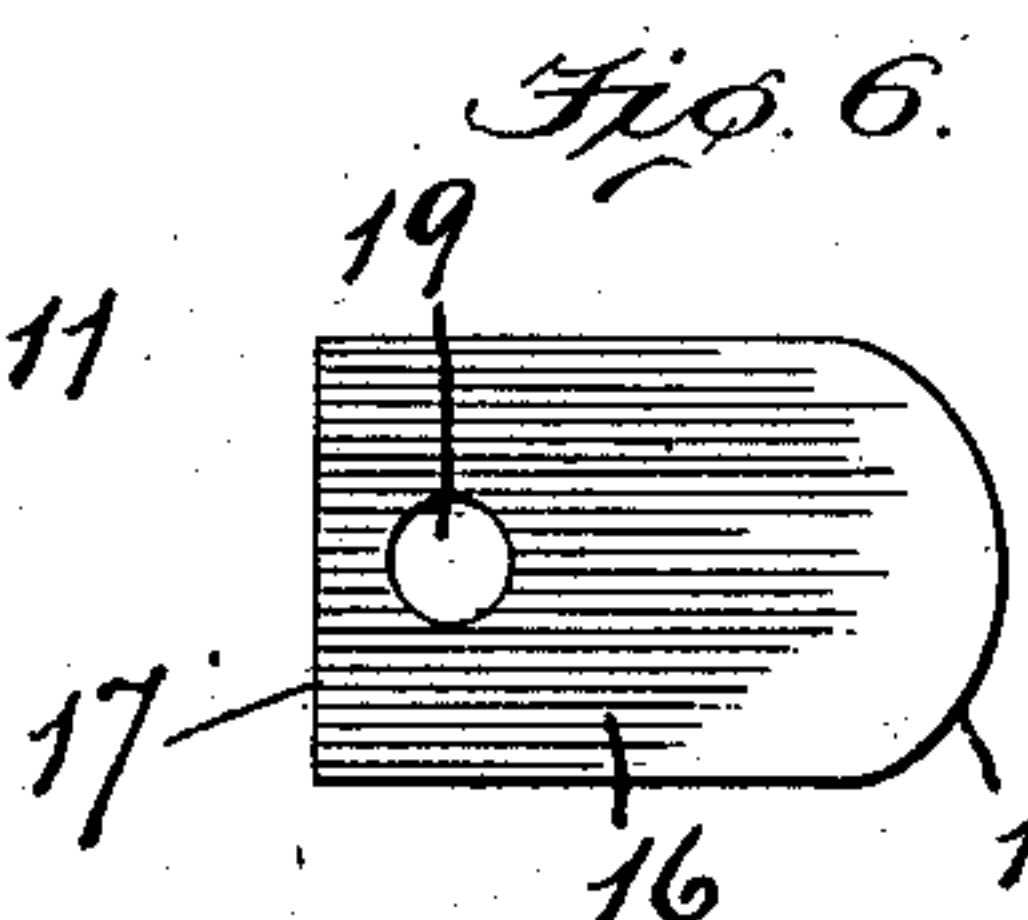
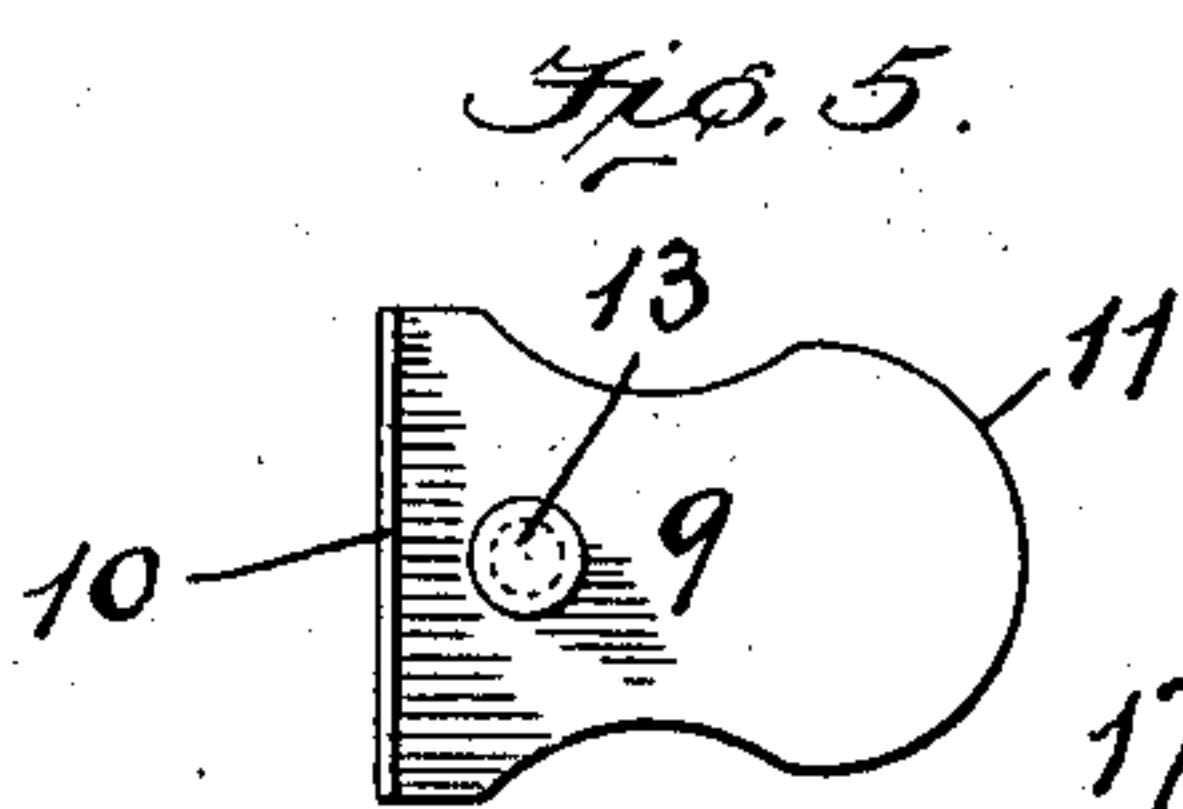
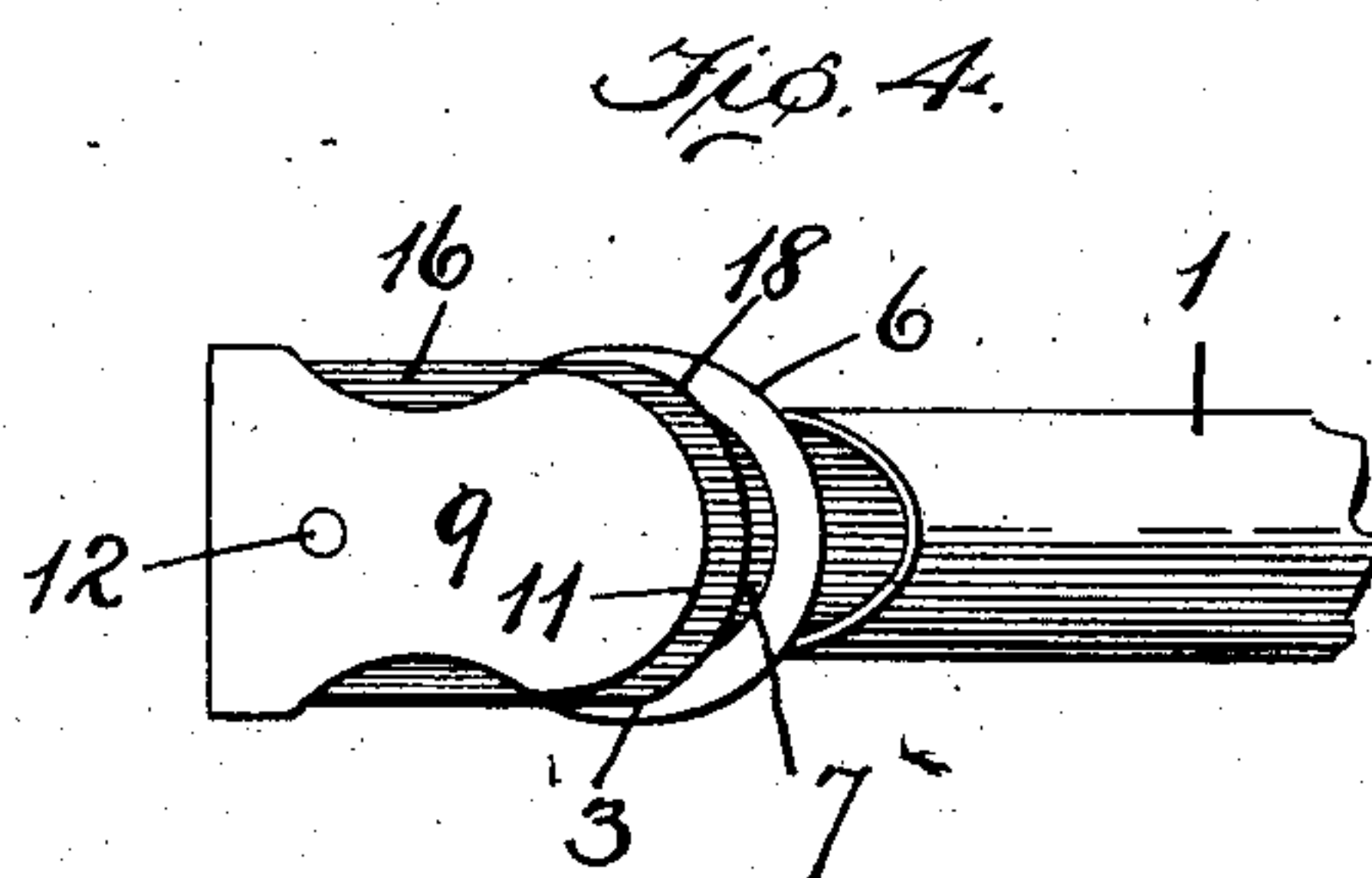
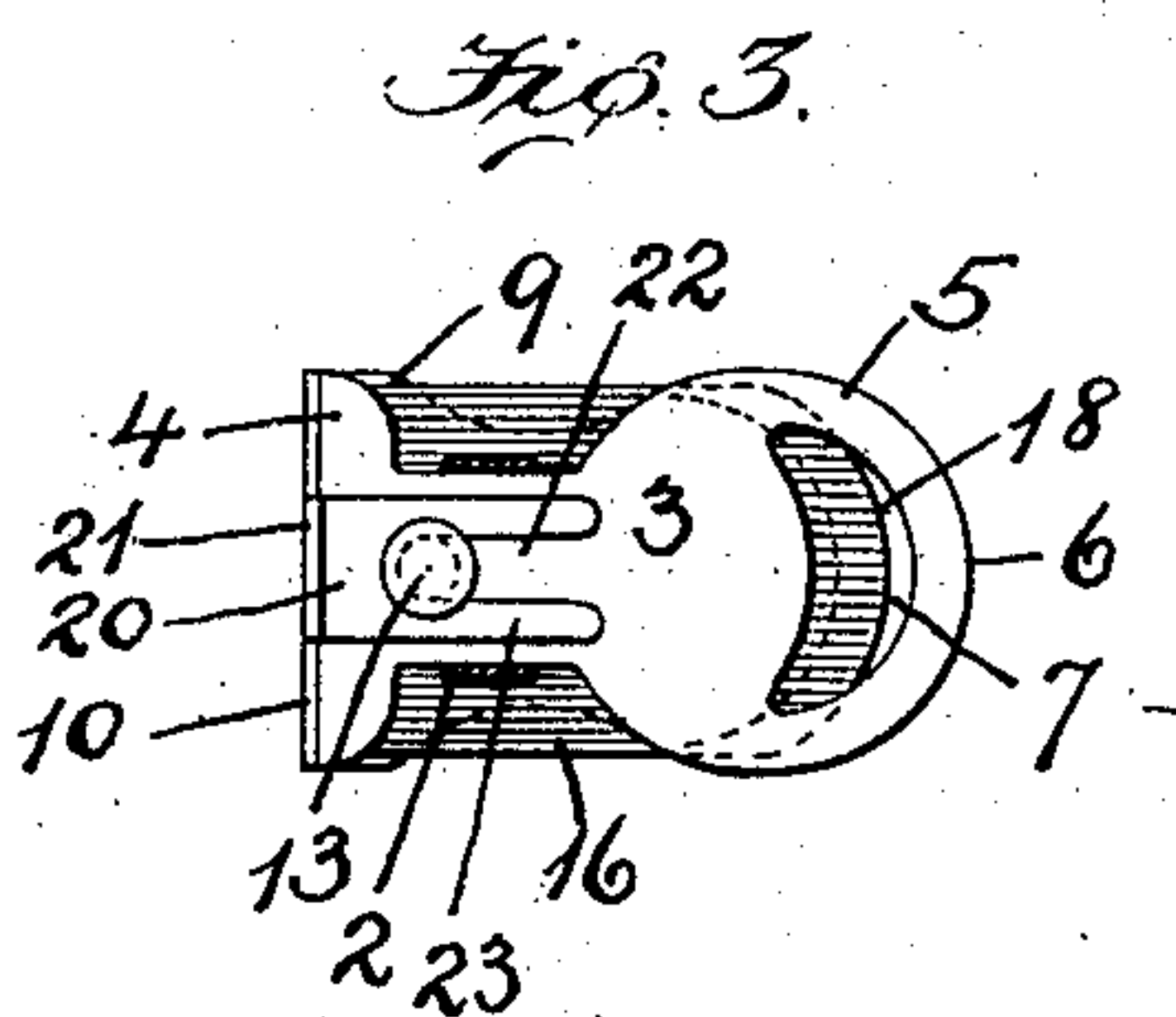
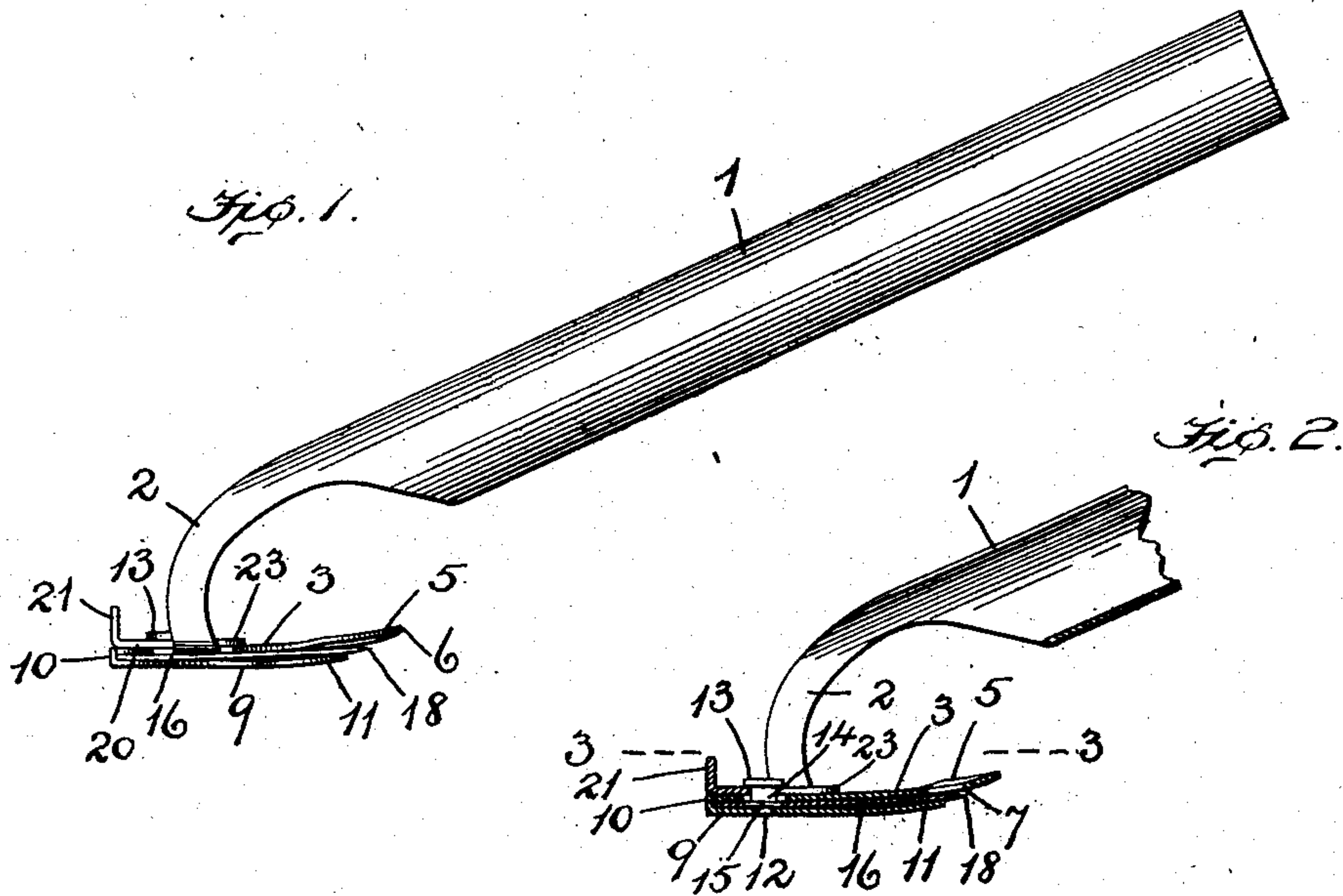


J. C. PLETSCHER.
CORN KNIFE.
APPLICATION FILED SEPT. 28, 1910.

994,534.

Patented June 6, 1911.



Witnesses

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UNITED STATES PATENT OFFICE.

JOHN C. PLETSCHER, OF BALTIMORE, MARYLAND.

CORN-KNIFE.

994,534.

Specification of Letters Patent.

Patented June 6, 1911.

Application filed September 28, 1910. Serial No. 584,180.

To all whom it may concern:

Be it known that I, JOHN C. PLETSCHER, a citizen of the United States, residing at Baltimore, in the State of Maryland, have
5 invented certain new and useful Improvements in Corn-Knives, of which the following is a specification.

This invention relates to a safety knife and has particular reference to a knife for
10 paring or trimming corns and other callous places on the skin,—the object being to provide a knife that may be used with safety; which will make a draw cut and which may be constructed in a simple and inexpensive
15 manner.

Another object is to provide an improved form of curved cutting blade and guard whereby to enable the blade to effect an entrance into the skin at a small portion of
20 its cutting edge and to thereafter increase the cutting surface as the blade is drawn forward.

Another object is to provide an improved means for detachably securing the blade
25 guard and handle together.

With these and other objects in view, the invention is illustrated in the accompanying drawing, in which,—

Figure 1, is a side elevation of the improved knife; Fig. 2, a longitudinal sectional detail through the lower end of the handle, guard and blade; Fig. 3, is a sectional plan view of the guard and blade,—the section being taken on the line 3—3 of
30 Fig. 2. Fig. 4, is a bottom plan of the lower end of the knife; Figs. 5, 6 and 7 are top plan views respectively of the clamp plate, center blade and holder, and Fig. 8, is a sectional detail of the several parts ready for
40 assembling.

Referring to the drawing the numeral, 1, designates a tubular handle having laterally-curved arms, 2, at one end thereof which carry a head-plate, 3. This head-plate has
45 a broadened front extension, 4, and a broadened rear extension, 5,—said broadened ends or extensions being at opposite sides of the point of joinder of the arms, 2, with a narrow part of the head plate. The rear extension, 5, of the head plate has a rounded edge, 6, and is also provided with a crescent-shaped slot, 7, whose convex edge curves co-
50 incidently with said round edge, 6, and forms a curved bar that serves as a guard for the curved edge of the cutter blade. A perforation, 8, is provided in the head plate

in front of the arms, 2, for a purpose presently to be described. A clamping plate, 9, is also employed in the make-up of the knife and is preferably formed of a thin
60 yielding metal. This plate has an up-turned flange, 10, at its front end and a rounded or curved rear edge, 11. A stud, 12, is also provided on the clamping plate and projects upwardly therefrom and said
65 stud has an enlarged or headed upper end, 13; a reduced intermediate portion, 14, and a circular enlargement, 15, directly over the upper surface of the clamping plate as clearly shown in Fig. 8. The rear rounded
70 or curved edge, 11, of the clamping plate has a slight upward curve in a longitudinal direction, for a purpose presently to be explained.

The cutter blade, 16, is formed from a
75 thin steel plate and has a straight front edge, 17, and a rounded or curved rear cutting edge, 18. This blade also has a perforation, 19, adjacent to the straight front edge and the location of this perforation is such
80 that the head, 13, and the enlargement, 15, of the stud on the clamping plate, 9, may both pass therethrough and permit the blade to lie flat on the upper surface of the clamping plate 9 with the straight front edge, 17, abutted
85 against the up-turned flange, 10, on the front of the clamping plate. When in this position the perforation, 19, in the blade will receive the said enlargement, 15, of the stud
90 and by this means the rounded cutting edge, 18, of the blade is definitely positioned with respect to the curved slot, 7, and the curved guard bar, 6, and the cutter-blade will be prevented from turning about the stud. A
95 locking plate, 20, has at one end an up-turned flange, 21, for convenience of handling the plate and is provided with a central slot, 22, that extends longitudinally and is open at one end and this slot forms two
100 parallel prongs, 23, which are separated by the said slot, 22.

In assembling the several parts of the knife the blade, 16, is first seated on the clamp plate, 9,—the stud of the latter projecting through the perforation, 19, of the
105 blade. The head plate, 3, is then seated down on top of the blade so that the stud will project through the perforation, 8, and the front edge of the end, 4, will abut
110 against the flange, 10, of the clamp plate,—which flange is of sufficient height to project above the blade and the head plate, as

clearly seen in Figs. 1 and 2. This arrangement of the several parts will cause the head, 13, of the stud on the bottom-most clamp-plate to project above the upper surface of the head plate. The parts being thus assembled should be pressed together, and while thus pressed the locking plate, 20, will be put in position by the prongs, 23, thereof being inserted between the stud-head, 13, and the upper surface of the head-plate, 3,—the said two prongs taking on opposite sides of the reduced portion, 14, of the stud. As will be seen the construction of the handle with two curved arms, 2, permits the two prongs, 23, of the locking plate to have position in the space between said two curved arms. When the pressure is removed from the parts their tendency to react and spring apart will hold the locking plate from slipping out, and the locking plate will confine said parts.

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

25 1. A corn-paring safety knife comprising a handle having two curved arms whose extremities are permanently attached to a head plate provided with a perforation, 8; a blade having opposite its cutting edge a

straight cross-edge, 17, and a perforation, 30 19; a clamping plate provided with a permanently-attached stud and having at one end an upturned flange, 10, which abuts against the said straight cross-edge of the blade and the said stud projecting through 35 the perforations in both the blade and head plate, and a locking plate having two parallel prongs which engage the said stud and have position between the said two arms of the handle. 40

2. A corn-paring safety knife having a handle provided with a curved extremity; a head plate permanently attached to said curved extremity and having a crescent-shaped slot and a curved guard-bar which 45 is coincident with the convex edge of said slot; a cutter blade having a rounded cutting edge which is positioned partly over said crescent-shaped slot; and a plate below the said cutter blade said last named plate 50 having a stud for binding the said parts together.

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

JOHN C. PLETSCHER.

Witnesses:

CHARLES B. MANN, Jr.,
JOHN W. HEWES.