

No. 641,646.

Patented Jan. 16, 1900.

E. R. PARKER.

INSTRUMENT FOR REMOVING DENTS FROM GUN BARRELS.

(Application filed Apr. 27, 1899.)

(No Model.)

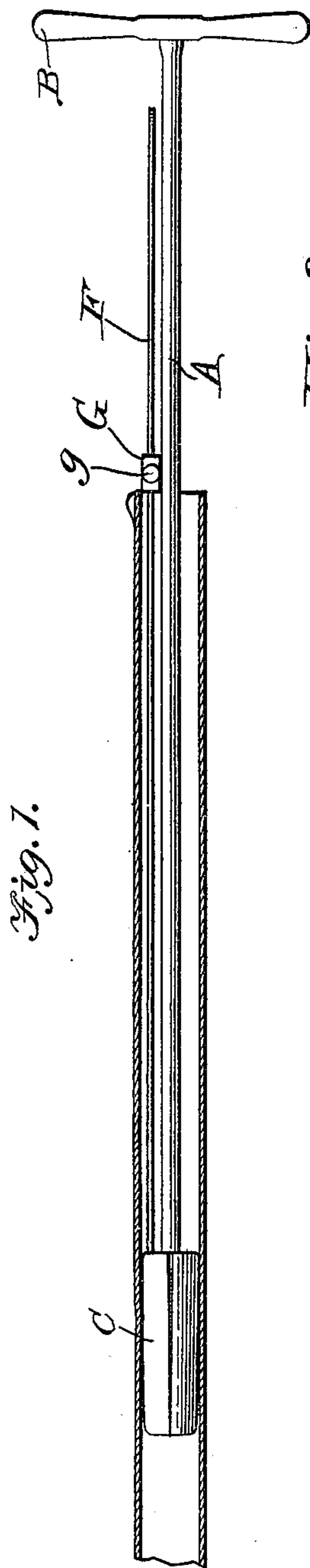


Fig. 1.

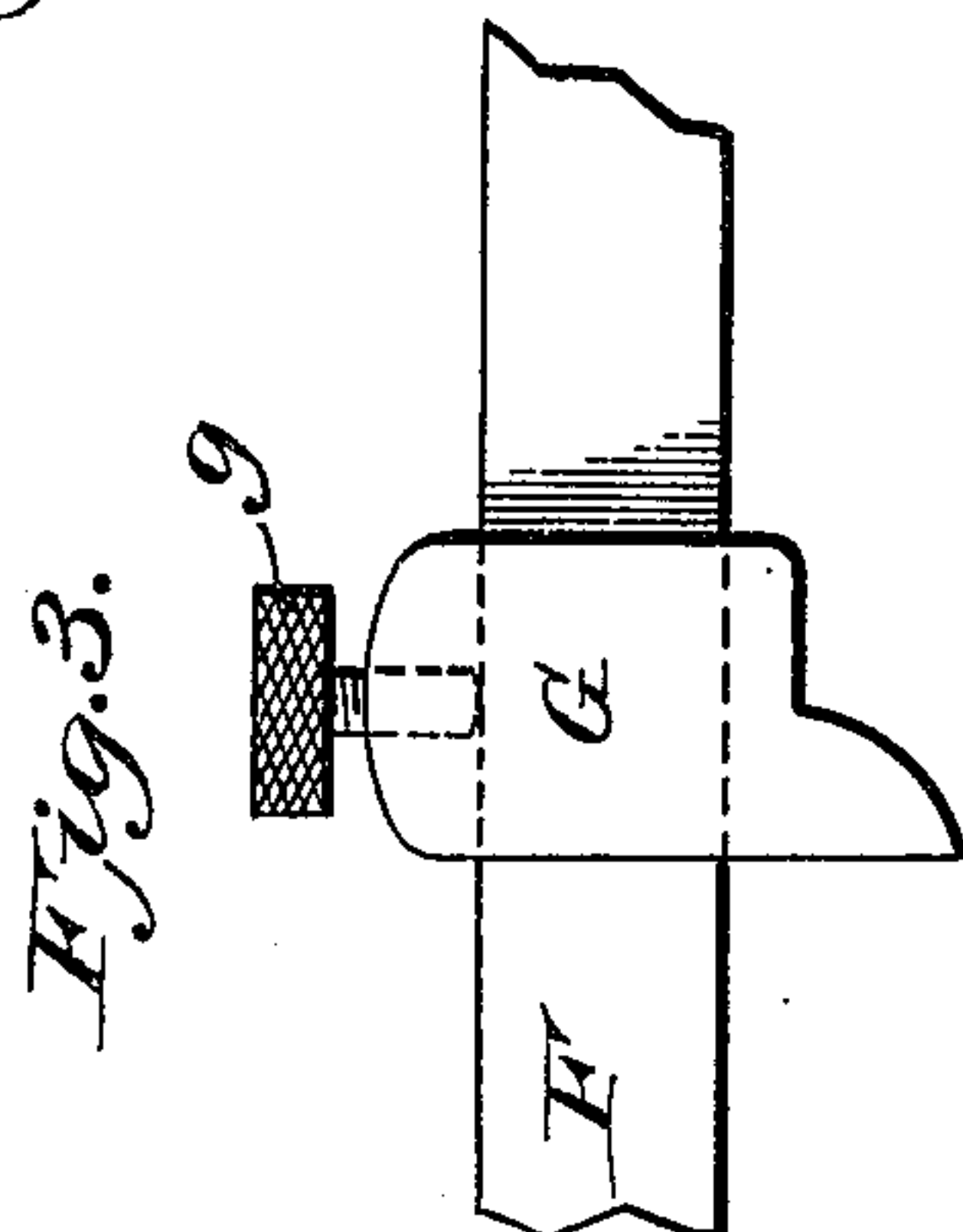


Fig. 3.

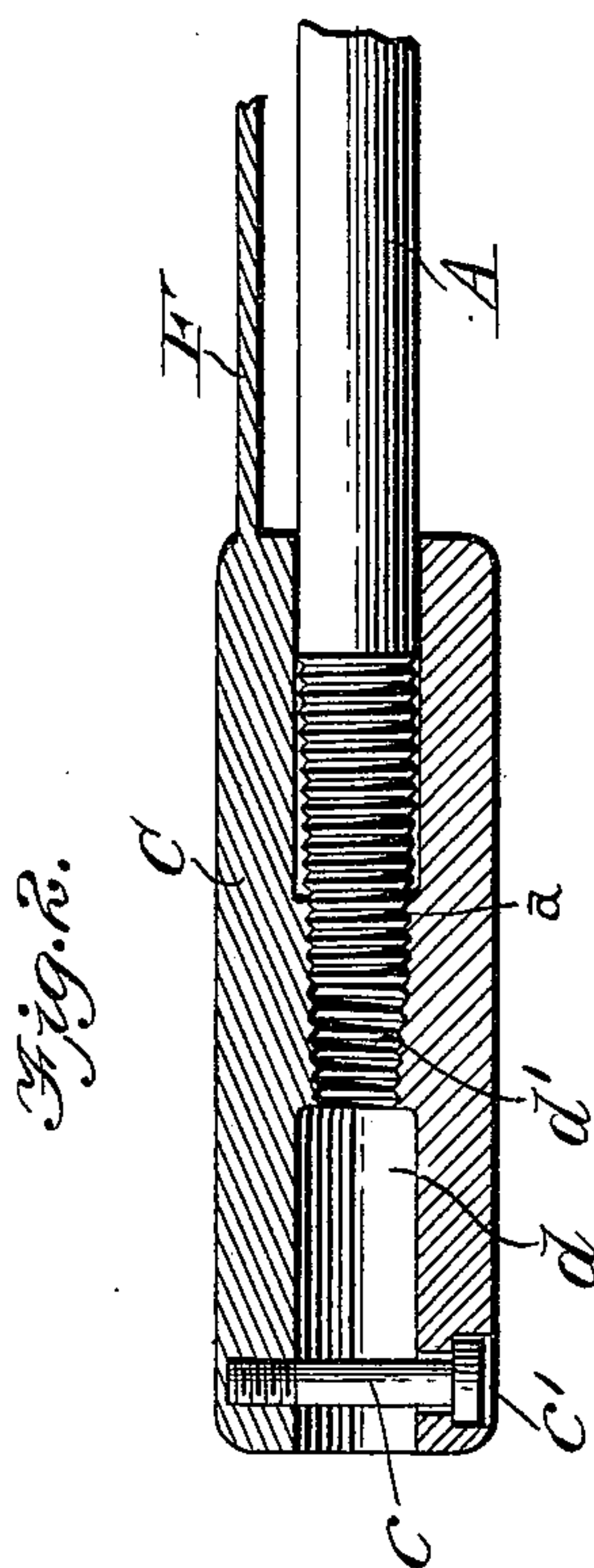


Fig. 2.

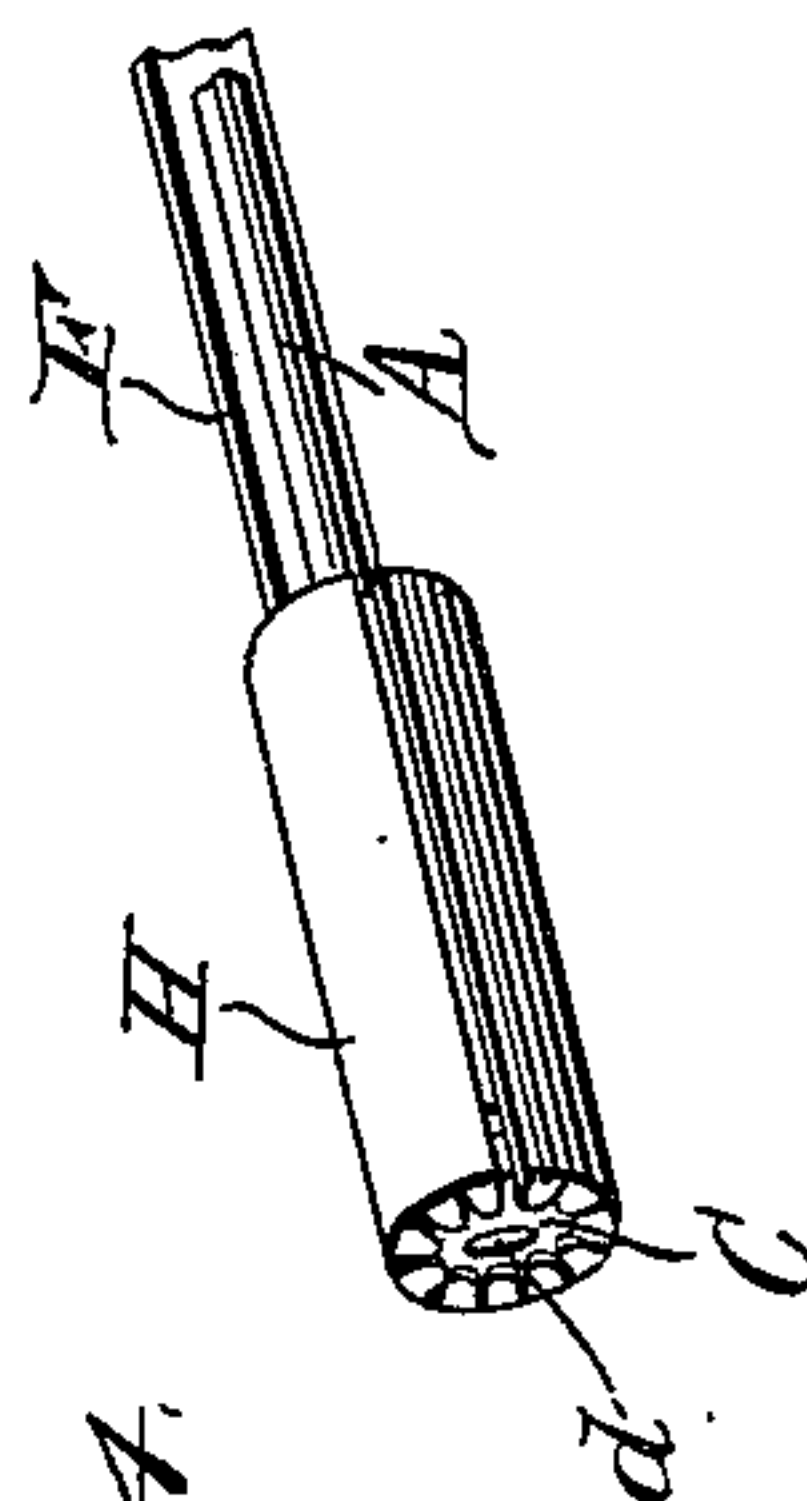


Fig. 4.

WITNESSES:

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EDWIN R. PARKER, OF SCRANTON, PENNSYLVANIA, ASSIGNOR OF TWO-THIRDS TO MARK K. EDGAR AND SAMUEL W. EDGAR, OF SAME PLACE.

INSTRUMENT FOR REMOVING DENTS FROM GUN-BARRELS.

SPECIFICATION forming part of Letters Patent No. 641,646, dated January 16, 1900.

Application filed April 27, 1899. Serial No. 714,750. (No model.)

To all whom it may concern:

Be it known that I, EDWIN R. PARKER, a citizen of the United States, and a resident of Scranton, in the county of Lackawanna and State of Pennsylvania, have invented certain new and useful Improvements in Instruments for Removing Dents from Gun-Barrels, Horn Musical Instruments, Hollow Tubes, &c.; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a central longitudinal section through a gun-barrel, showing the invention as in application thereto. Fig. 2 is a central longitudinal section through the head C and attached parts. Fig. 3 is a detail view of the sliding gage. Fig. 4 is a detail view showing the application of the bushing H.

This invention is designed to provide an implement of novel and useful character for use in removing dents or indentations from hollow tubes, gun-barrels, horn musical instruments, &c.; and it consists in the novel construction and combination of parts, all as hereinafter described, and pointed out in the appended claims.

Referring to the accompanying drawings, the letter A designates a steel rod which may be of any suitable length and diameter and which is provided at one end with a handle B and at the opposite end with an expanding head C. This head C is formed in two semicylindrical sections, connected at their distant end portions by means of a screw c, which is rigidly secured to one of said sections, but is loosely engaged with and has its head loosely countersunk in the other section, as indicated at c', wherebysaid sections are made capable of separating or expanding to a limited extent. The size and length of the head will depend upon the particular purpose for which the implement is designed. The contiguous faces of the two sections are each formed with a longitudinal semicylindric

bore d, which extends the full length thereof and which unite when the sections are applied to each other to form a cylindrical bore to receive the end portion of the rod A. Said bore is formed with the tapered threaded portion d' to receive the threaded tapered end portion a of the said rod. Secured removably or rigidly, as may be desired, to one section of the said head is a light bar F, which extends back adjacent to the rod A and which is provided with a sliding gage G, having a set-screw g, by means of which it may be secured in any desired position on the said arm. By means of this bar the exact distance of the dent or indentation from the end of the tube may be ascertained and the gage can be set accordingly, so that when the head is inserted in the tube it will be insured that it is directly contiguous to the dent to be removed, so that when the rod is turned in the proper direction the head will be expanded and the indented metal forced out to its proper place.

For the purpose of adapting an implement with a head of any given size for use in a larger tube I provide a split bushing H, which may be slipped over the said head. For instance, suppose the implement shown in the drawings to be adapted primarily for use in a twelve-gage gun-barrel. By the use of this bushing it may be employed to equal advantage in a ten-gage barrel.

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

1. An implement of the character described, consisting of an expanding head composed of two semicylindric sections, a pin or screw rigidly secured to one of said sections and loosely engaging the other section, said sections having an internal screw-bearing, and a rod having a threaded tapered end portion engaging the said bearing, substantially as specified.

2. An implement of the character described, consisting of the expanding head, formed in two loosely-connected sections and having an internal-tapered screw-bearing, a bar connected to one of said sections and carrying a gage, and an expanding rod having a tapered

threaded end for engagement with said bearing, substantially as specified.

3. An implement of the character described, consisting of an expanding head composed of
5 two semicylindrical sections loosely connected at one end portion and having an internal-tapered screw-bearing, and a rod having a threaded and tapered end which engages the said bearing, together with a split bushing

adapted to fit over the said head, substantially as specified.

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

EDWIN R. PARKER.

Witnesses:

MATHIAS BOHN,
CHARLES J. ROTH.