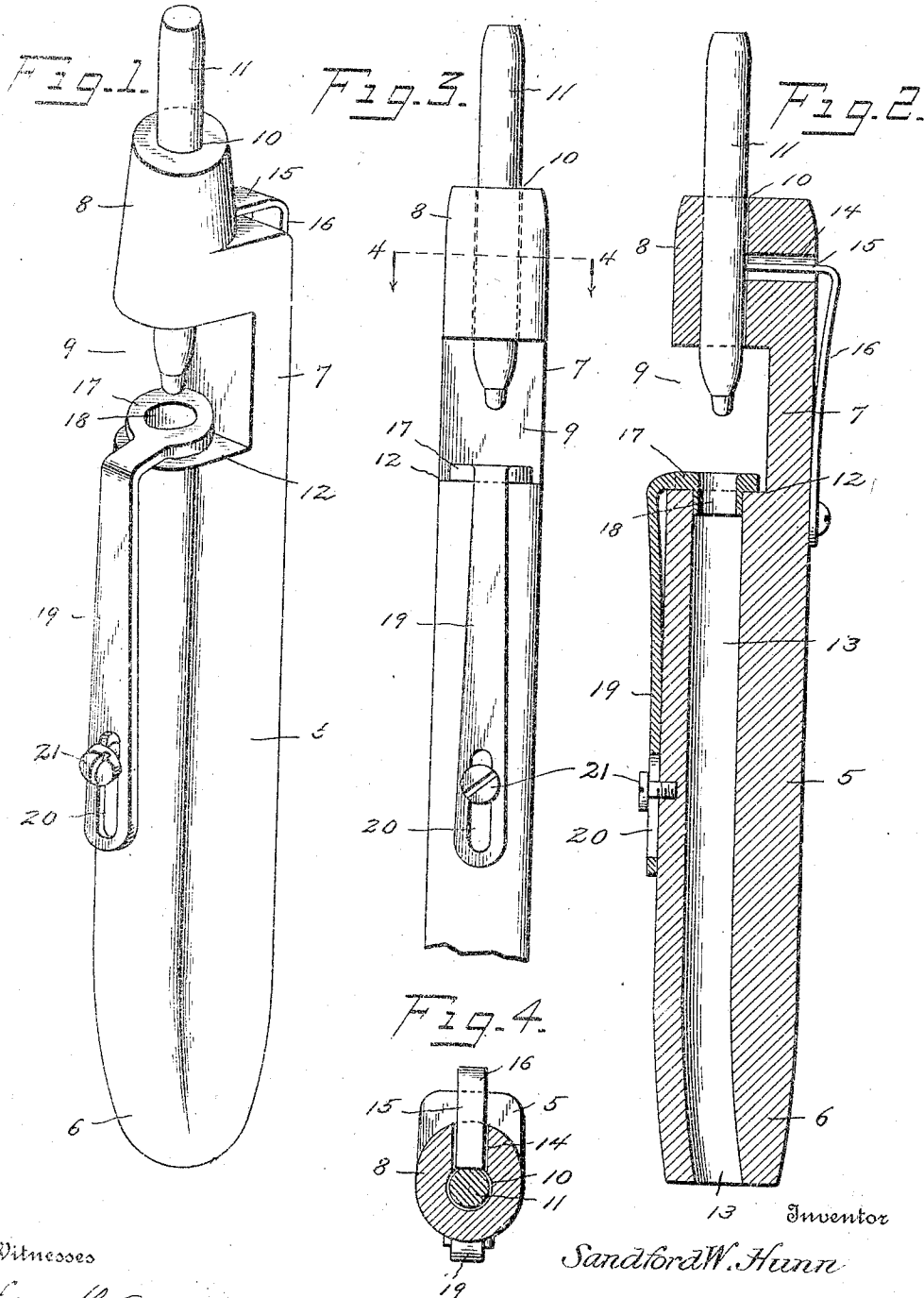


S. W. HUNN.
PUNCH.

APPLICATION FILED JULY 25, 1911.

1,039,947.

Patented Oct. 1, 1912.



Witnesses

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SANDFORD W. HUNN, OF COLDWATER, KANSAS.

PUNCH.

1,039,947.

Specification of Letters Patent.

Patented Oct. 1, 1912.

Application filed July 25, 1911. Serial No. 640,449.

To all whom it may concern:

Be it known that I, SANDFORD W. HUNN, a citizen of the United States, residing at Coldwater, in the county of Comanche and State of Kansas, have invented new and useful Improvements in Punches, of which the following is a specification.

The invention relates to punches, and more particularly to the class of rivet extractors.

The primary object of the invention is the provision of a device of this character in which rivets may be readily and easily removed from the arm or limbs of buggy or carriage top bows, without requiring the use of other tools, and also avoiding the possibility of the breaking or damaging of the bows.

Another object of the invention is the provision of a device of this character which is simple in construction, strong, durable, reliable and efficient in operation, and inexpensive in manufacture.

With these and other objects in view, the invention consists in the construction, combination and arrangement of parts, as will be hereinafter more fully described, illustrated in the accompanying drawings, and pointed out in the claim hereunto appended.

In the drawings: Figure 1 is a perspective view of the device constructed in accordance with the invention. Fig. 2 is a longitudinal sectional view thereof. Fig. 3 is an edge view of the device. Fig. 4 is a sectional view on the line 4-4 of Fig. 3.

Similar reference characters indicate corresponding parts throughout the several views of the drawings.

Referring to the drawings by numerals, the device comprises a straight handle 5, preferably of cylindrical form, and provided with an outwardly tapered end 6, the handle being formed from metal, although the same may be made from any other desirable material. At the opposite end of this handle 5 is provided a reduced neck 7 having a guide head 8 alining with the handle 5, the neck being offset relative to the latter and the head 8, so as to provide a recess 9, so that the work to be operated upon may be received therein.

The head 8 is formed with a central bore 10, in which is fitted a slidable punch 11, which is adapted to cooperate with the inner end of the handle, this end being designed as an anvil 12, against which the work rests. The handle 5 is also formed with a central bore or passage 13, opening through opposite ends thereof, so that on extracting rivets from the work by the punch 11, the same will pass through the bore or passage 13 from the handle.

Provided in one side of the head 8 is a slot 14, opening into its bore, and in which works an inturned nib 15, on the outer end of a flat leaf spring 16, the opposite end of which is secured to the handle, and this spring is designed to force inwardly the nib 15 against the punch 11 to hold the same against a rivet, when the punch is to be struck a blow by a hammer or the like, during the extracting operation.

Overlying the anvil 12 is a die 17, provided with a central aperture 18 for receiving the punch 11, the die being formed on a limb or bar 19 at right angles thereto, the outer end of the latter being formed with an elongated slot 20, in which is engaged a set screw 21 which is also engaged in the handle 5, so that the die 17 may be locked in position when it is in engagement with the anvil 12, or to allow the die to be raised and swung around out of engagement with the said anvil. Therefore, small and large headed rivets can be extracted from bows with or without the use of the die 17 which has a much smaller bore 18 than the anvil itself.

What is claimed is:

A punch of the class described, comprising a handle having a reduced neck at one end, a guide head formed on the neck in alinement with the handle, a punch slidable in the said head, said handle having a central bore, a gage disk having a central aperture for receiving the punch and being formed on a limb at right angles thereto, the outer end of the latter being formed with an elongated slot and a set screw passing through said slot and being engaged in the handle.

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

SANDFORD W. HUNN.

Witnesses:

E. M. EDWARDS,
Z. P. JACKSON.