

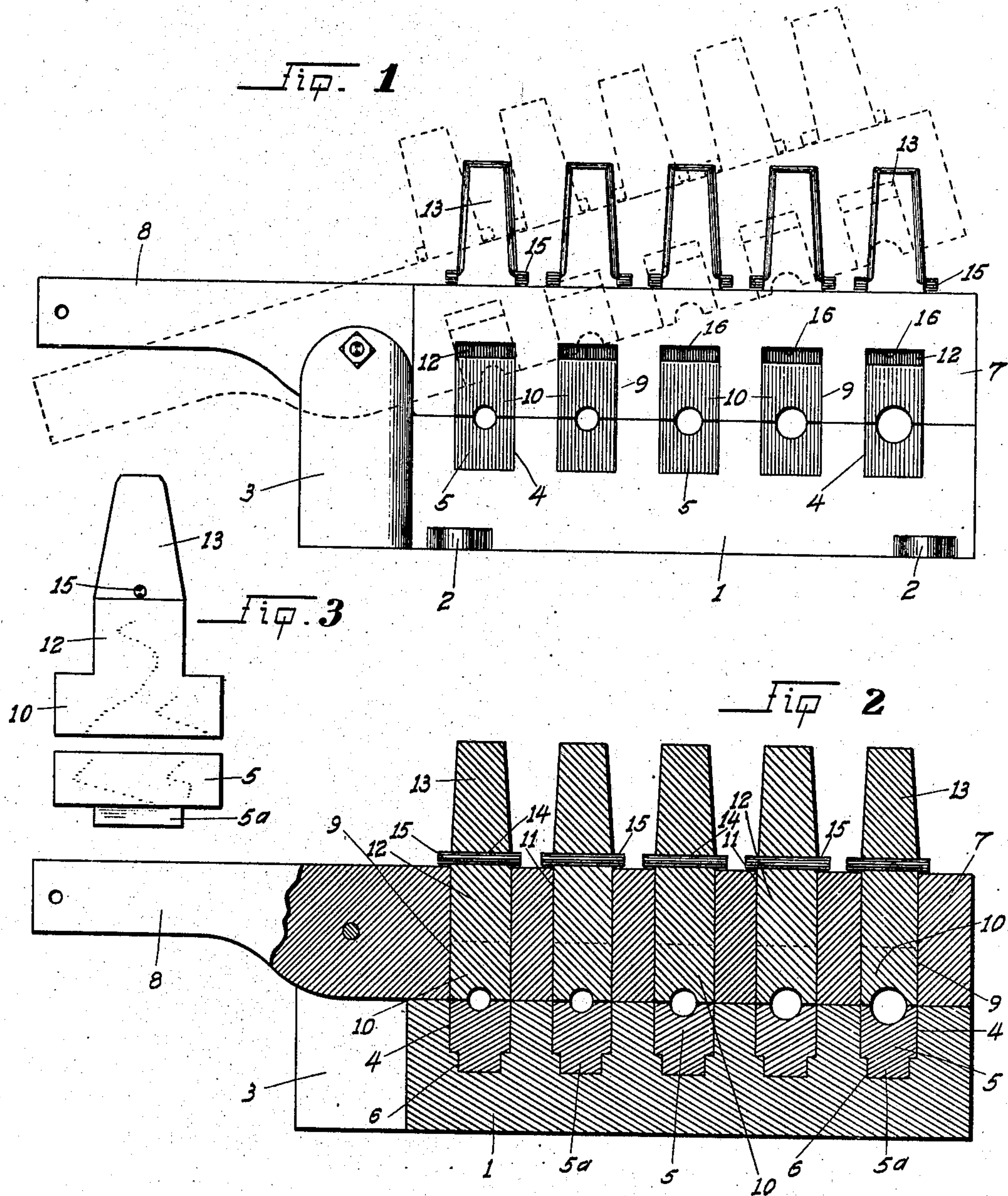
No. 894,722.

PATENTED JULY 28, 1908.

E. D. CASTLE.

SWAGE.

APPLICATION FILED MAY 20, 1907.



Witnesses

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UNITED STATES PATENT OFFICE.

EDMUND D. CASTLE, OF STOCKTON, CALIFORNIA, ASSIGNOR OF ONE-HALF TO A. W. CARR.

SWAGE.

No. 894,722.

Specification of Letters Patent.

Patented July 28, 1908.

Application filed May 20, 1907. Serial No. 374,595.

To all whom it may concern:

Be it known that I, EDMUND D. CASTLE, a citizen of the United States, residing at Stockton, in the county of San Joaquin and State of California, have invented certain new and useful Improvements in Swages; and I do declare the following to be a full, clear, and exact description of the same, 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 the characters of reference marked thereon, which form a part of this specification.

This invention relates to improvements in swages and particularly to hand swages used in small blacksmith shops and the like, the object of the invention being to produce a combination swage whereby several different sized swages may be used in the most simple yet effective manner, and one in which the swages will be always at hand ready for use. This object I accomplish by means of two iron bars hinged together, there being disposed in said bars a plurality of swage members, all constructed and arranged as will appear by a perusal of the following specification and claims.

In the drawing similar characters of reference indicate corresponding parts in the several views.

Figure 1 is a side elevation of my improved device. Fig. 2 is a longitudinal section thereof. Fig. 3 is a side elevation of the upper and lower members of the tools.

Referring more particularly to the reference numerals on the drawings 1 designates a bottom iron having outward lugs 2 on its lower edges, said lugs 2 being orificed for the purpose of receiving bolts or screws for securing the said iron 1 in any fixed position. At one end of said iron 1 are formed two wings 3 the same extending slightly above the upper plane of said iron. Across the top of said iron 1 are a plurality of slots 4 adapted to receive the lower swage members 5, the tangs 5^a of such swage members fitting into sockets 6 in the bottom of the slots 4.

7 is a top iron resting on the iron 1 and provided with a handle 8 pivotally secured between the wings 3.

Disposed in the under side of the iron 7 are a plurality of slots 9 coinciding with the slots 4 and adapted to receive the upper swage members 10. Upward from the slots 9 and extending through the top of said iron 7 are

slots 11 through which extend square shoulders 12 on the members 10. Upward from the shoulders 12 are handle members 13. Through the base of said handle members are orifices 14 through which extend removable pins 15 which pins rest normally on top of the iron 7, all for the purpose as will appear. In practice the slots 9 are normally of a greater depth than the members 10, thus leaving a working space 16.

When the machine is in use any desired size or shaped swages may be inserted into the machine as shown. When it is desired to use the machine the member 7 may be tilted by use of the handle 8 (as shown in Fig. 1) and the material to be formed placed between the desired swage members 5 and 9. The operator then strikes the top handle member 13, the space 16 permitting of the desired freedom of movement. The pins 15 hold the members 10 in the proper position when the iron 7 is tilted as described and being removable also permit of new members being easily inserted. Thus it will be seen that I have produced a swage which substantially fulfils all the objects of the invention as set forth herein.

While this specification sets forth in detail the present and preferred embodiment of my invention still in practice many small deviations therefrom may be resorted to at will without departing from the spirit of my invention.

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

1. In a device of the kind described a bottom member, a top member, said bottom member having a plurality of slots disposed across the top thereof and sockets downward from said slots, lower swage members disposed in said slots, their tangs resting in said sockets and upper swage members disposed in said upper member and coinciding with said lower swage members, as set forth.

2. In a device of the character described a lower member, an upper member, said upper member being provided with a plurality of slots disposed across its under face and sockets upward from said slots through the top of said member, upper swage members disposed in said slots, and being of a lesser depth, shoulders upward from said swage members through said sockets, handle members upward from said shoulders, said handle members being provided with orifices

through their lower ends, pins removably disposed through said orifices and bearing normally against the top of said top member, and lower swage members disposed in
5 said lower member and adapted to coact with said upper swage members, as specified.

3. In a device of the character described, a lower member, an upper member, said upper member being provided with slots disposed
10 across its under face, swage members disposed in said slots and being of a lesser depth,

operating handles extending upward from said swage members, and swage members disposed in said lower member and co-acting with said upper swage members, as set forth. 15

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

EDMUND D. CASTLE.

Witnesses:

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