

W. FOREMAN.
HAND GRIPPING DEVICE.
APPLICATION FILED JUNE 1, 1914.

1,243,725.

Patented Oct. 23, 1917.

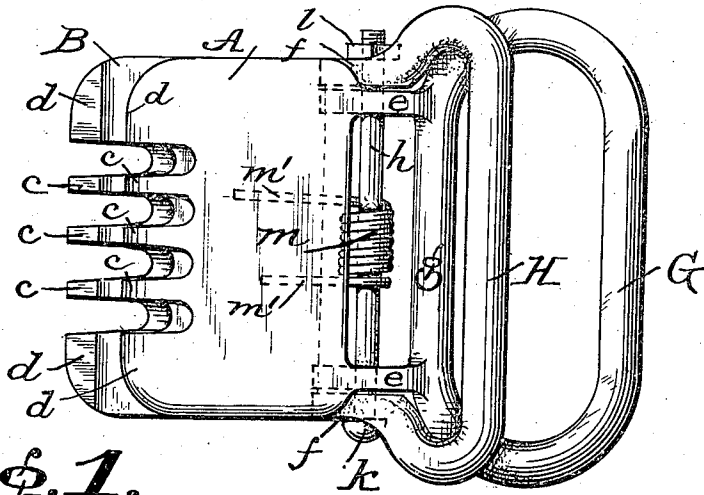


Fig. 1.

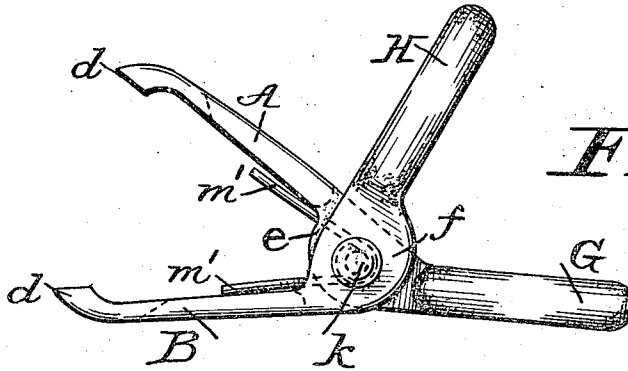


Fig. 2.

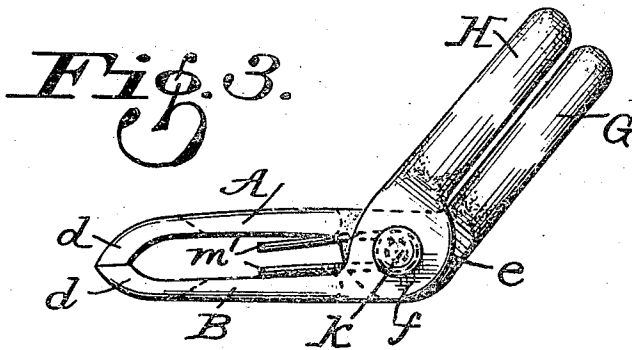


Fig. 3.

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UNITED STATES PATENT OFFICE.

WILLIAM FOREMAN, OF JEFFERSON TOWNSHIP, MONTGOMERY COUNTY, OHIO.

HAND GRIPPING DEVICE.

1,243,725.

Specification of Letters Patent.

Patented Oct. 23, 1917.

Application filed June 1, 1914. Serial No. 842,026.

To all whom it may concern:

Be it known that I, WILLIAM FOREMAN, a citizen of the United States, residing at Jefferson township, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Hand Gripping Devices, of which the following is a specification.

My invention relates to a "hand gripping device."

Some of the principal objects of said invention consist:—in providing a gripping device intended to take the place of the human hands, thereby preventing injury to, and the wear and tear of said human hands; as is the case in kitchen work, especially when handling hot pots and kettles: also in laundry work, when manipulating and handling clothes taken directly from the hot suds preparatory to rubbing them on the wash-board. Also, to provide a device adapted for service in foundries in handling and manipulating pieces of hot metal and metallic articles; thus obviating the use of the human hands, and thereby protecting same.

Further objects are to provide a handy and useful device as above referred to, that can be readily and easily operated; is simple in construction and composed of few parts; and one which can be manufactured at a small cost and therefore is inexpensive.

This invention consists essentially,—referring briefly and in general terms to the structure embodying the same;—of the peculiar construction, arrangement and combination of the various parts and the minor details thereof; as will hereinafter be fully and specifically described and set forth in the subjoined claim, all in accordance with the statutes in such cases made and provided therefor.

Referring to the accompanying drawings constituting a formal part of this specification, and illustrating one form of construction for carrying out the objects and principles of my invention, and wherein the same reference letters are utilized to indicate and point out the same parts wherever occurring in the several views:—

Figure 1, is a plan view of my hand gripping device with the jaws open when in its normal position: Fig. 2 is a side view of same, as shown in Fig. 1; and Fig. 3 is a side

view of same with the jaws closed when in its operative position.

In describing my said invention specifically and referring in detail to the different parts or features of construction, which combine to make up my hand gripping device as shown throughout the several views of the drawings, and indicated therein by means of the characters of reference as aforesaid: A and B refer to the jaws of an upper and lower section respectively;—my device being composed of two sections as shown.

Said jaws are each formed at their gripping edges or point where they bear against the article to be handled, when brought toward each other in the act of gripping or in the posture they assume when in operative position,—see Fig. 3,—with what might be termed large teeth *c*, having a wide space between each,—the two outer ones *d* being much larger so as to facilitate the operation of gripping:—the inner surface or face of each tooth is preferably flat as clearly shown, so as not to injure clothes or articles that might be easily damaged when thus handling; but it will of course be obvious that the outer edges of said jaws A and B, instead of being provided with said teeth, may if so desired be provided with a roughened and sharp or serrated surface, or said edges may in fact be formed and provided in any suitable manner according to the class of articles it is desired to handle and the kind of work said device is intended for.

Jaws A and B are provided at the edge opposite to said teeth, with ears *e*, and ears *f* respectively; from which extend or project the hand-holds or handles G and H respectively,—of the respective upper and lower sections of said device:—the opening of each of said hand-holds being sufficiently wide and large, to allow the hand of the person using the device to pass through,—see Fig. 1;—and firmly grasp said hand-holds and press them toward each other and approximately together, which will also compress said jaws toward each other until the parts pass from the positions shown in Fig. 1, and assume the approximate positions shown in Fig. 3.

Hand-hold G is formed with a brace or strengthening-bar *g*, while in hand-hold H this is omitted to allow for the assembling or disconnecting of the two sections compos-

ing the device, which are hinged together by means of a pintle or hinge-rod *h*, which passes through and rests in the eyes of said ears *e* and *f*, and is removably held therein by means of a head *k* at one end and a nut *l* at the opposite and screw-threaded end,—similar to a bolt.

Mounted upon pintle *h* as fully and more specifically shown in Fig. 1, is a spring *m*, the ends *m*¹ of which project like small arms, and rest or have their bearing against the jaws A and B, the strength and size of said spring being sufficient so that ends *m*¹ will always exert the proper amount of tension on said jaws to hold them open and apart when in their normal position, so that the device is ready to be operated. Said spring may extend along said pintle the entire distance between said ears, or only a part of the distance as here shown.

In practice the device is intended to be

constructed, preferably out of malleable-iron, aluminum or similar tough strong material.

Having now described my hand gripping device—in connection with the illustrations,—as my invention and as new, I claim—

The combination in a gripping device of sections having their meeting edges provided with a toothed surface, a hand-hold on each section, a brace-rod for strengthening one of said hand-holds, a hinged connection located between said sections on which is mounted a spring for controlling the meeting edges of said sections.

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

WILLIAM FOREMAN.

Witnesses:

HUGH M. WALSH,

A. C. McDONALD.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."