

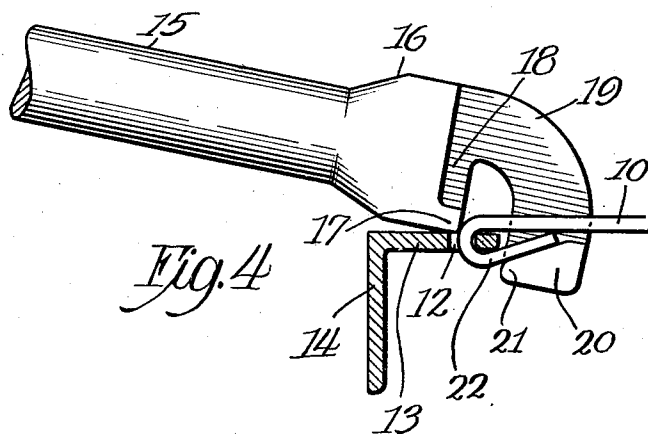
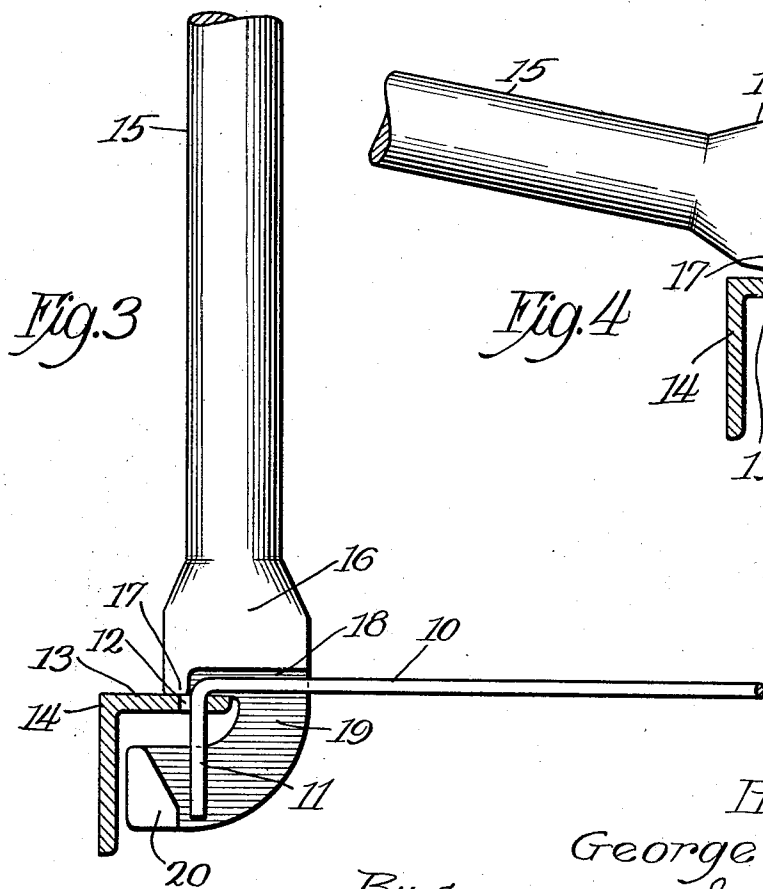
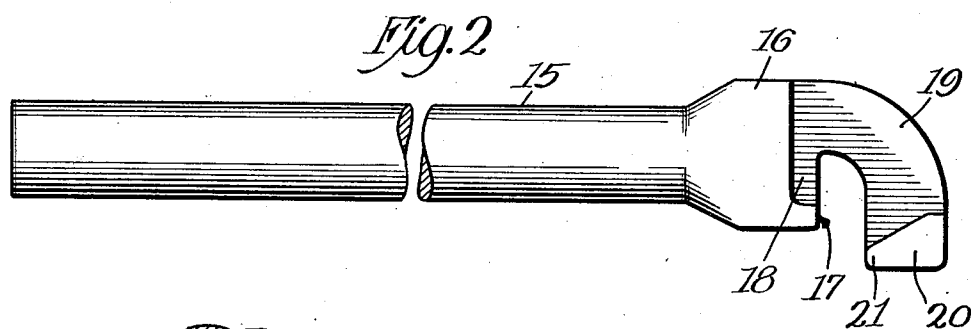
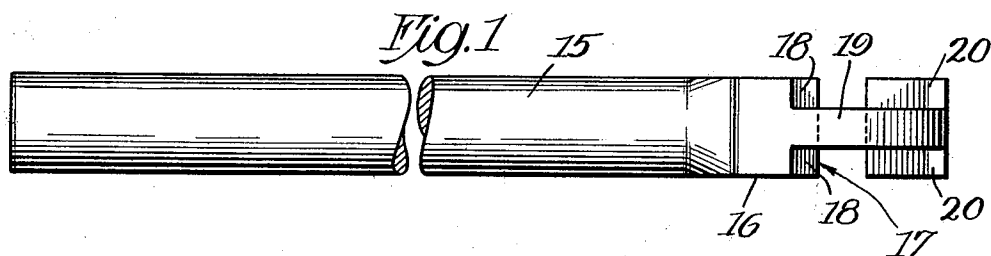
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BENDING TOOL

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UNITED STATES PATENT OFFICE

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BENDING TOOL

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This invention relates to improvements in bending tools, and is of particular value in securing the ends of wires to metal flanges or similar parts.

5 The principal objects of the invention are to provide a tool of the class described by means of which the ends of wires inserted through apertured metal flanges or the equivalent may be bent over upon themselves in order to secure the ends of said wires to said flanges; to provide a convenient, simple, rugged and inexpensive tool of the character described, and, in general, to provide an improved tool of the character referred to.

15 In the drawings, which show the invention as applied to a hand tool employed in the assembly of the parts of certain structures designed for sleeping purposes, for example, bed bottoms.

20 Fig. 1 is a plan view of the improved tool; Fig. 2 is a side view of the same;

Fig. 3 is a view in elevation showing the tool placed in position in readiness to be manipulated to effect the bending of the wire part, and

25 Fig. 4 illustrates the parts shown in Fig. 3 in the position occupied at the conclusion of the bending operation.

Referring to the drawings, it will be observed that the part to be operated upon by the improved tool consists of a length of horizontal wire 10, the end 11 of which has been previously bent to extend downwardly through an aperture 12 in the horizontally extending flange 13 of an angle iron 14. It will be understood that the other end of the wire part 10 may be similarly previously bent to enter an aperture in a corresponding angle bar 14 on the other side of the bed bottom or analogous structure; it being also understood that said opposite end, not shown, is prevented from rising upwardly during the bending operation performed by means of the improved tool.

45 Again referring to the figures, it will be observed that the tool comprises a handle 15 of suitable diameter to fit the hand and of the length necessary to provide the necessary leverage to effect the bending without exertion of an undue amount of effort.

On the end of said handle, there is formed a head 16, preferably rectangular in cross section, and at one side of said head 16 there is provided an abutment 17 extending across the width of the tool and facing outwardly in a plane at right angles to the axis of the handle 15. Adjacent the abutment, the head is cut away or recessed to provide a depression 18 for receiving the wire part 10. From the end or side of the head 16, remote from the abutment 17, there extends outwardly from the handle an integral curved extension or projection 19, the side surface of which is also shaped or cut away in such manner that when the tool is rotated in anti-clockwise direction on the abutment 17 (Fig. 3), the part 19 will pass by the wire part 10.

Upon the end of the curved extension 19, there is formed an integral lug or abutment 20, located substantially opposite to the abutment 17 and spaced therefrom a sufficient distance to admit the flange 13 of the angle iron and also so positioned with reference to the abutment 17 that when the tool is turned to the position shown in Fig. 4 from the position shown in Fig. 3, the inner end 21 of said lug 20 will effect the proper pinching action upon the loop 22.

As shown best in Fig. 1, both sides of the head 16 are shaped alike, so that the tool may be used as a left-hand tool or a right-hand tool interchangeably.

I claim as my invention:

1. A tool for securing a wire to a flange, comprising a handle serving as a lever and having a transverse shoulder adjacent one end thereof adapted to rest against a flange to serve as a pivot thereon for the rotation of said handle, a member extending outwardly from said handle and from said shoulder, and a transverse projection on said member spaced from said shoulder and having a surface adapted, upon rotation of said handle about said shoulder, to engage a wire extending transversely of said shoulder so as to bend said wire.

2. A tool for securing a wire to a flange, comprising a handle having a transverse shoulder adjacent one end thereof and adapted to rest against a flange and serve as a pivot

for the rotation of said handle as a lever, a member extending longitudinally of said handle and terminating in a portion transverse to said handle, said member having a laterally extending abutment adjacent its free end so as to provide a surface transverse to said shoulder, said surface being adapted, upon rotation of said handle on a flange about said shoulder as a pivot, to engage a wire extending transversely through said flange so as to form a loop in said wire.

3. A tool for securing a wire to a flange, comprising a handle having a transverse shoulder adjacent one end thereof and adapted to rest against the surface of a flange and serve as a pivot thereon for the rotation of said handle as a lever, a web-like member extending longitudinally of said handle and terminating in a portion extending transversely of said handle, said web-like member being sufficiently reduced in width to clear a wire on either side thereof, abutments formed adjacent the terminal portion of said member and extending laterally from opposite sides thereof, said abutments each having a surface extending transversely of said shoulder so as to be adapted, upon rotation of said handle, to engage a wire extending through said flange so as to form a loop therein.

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