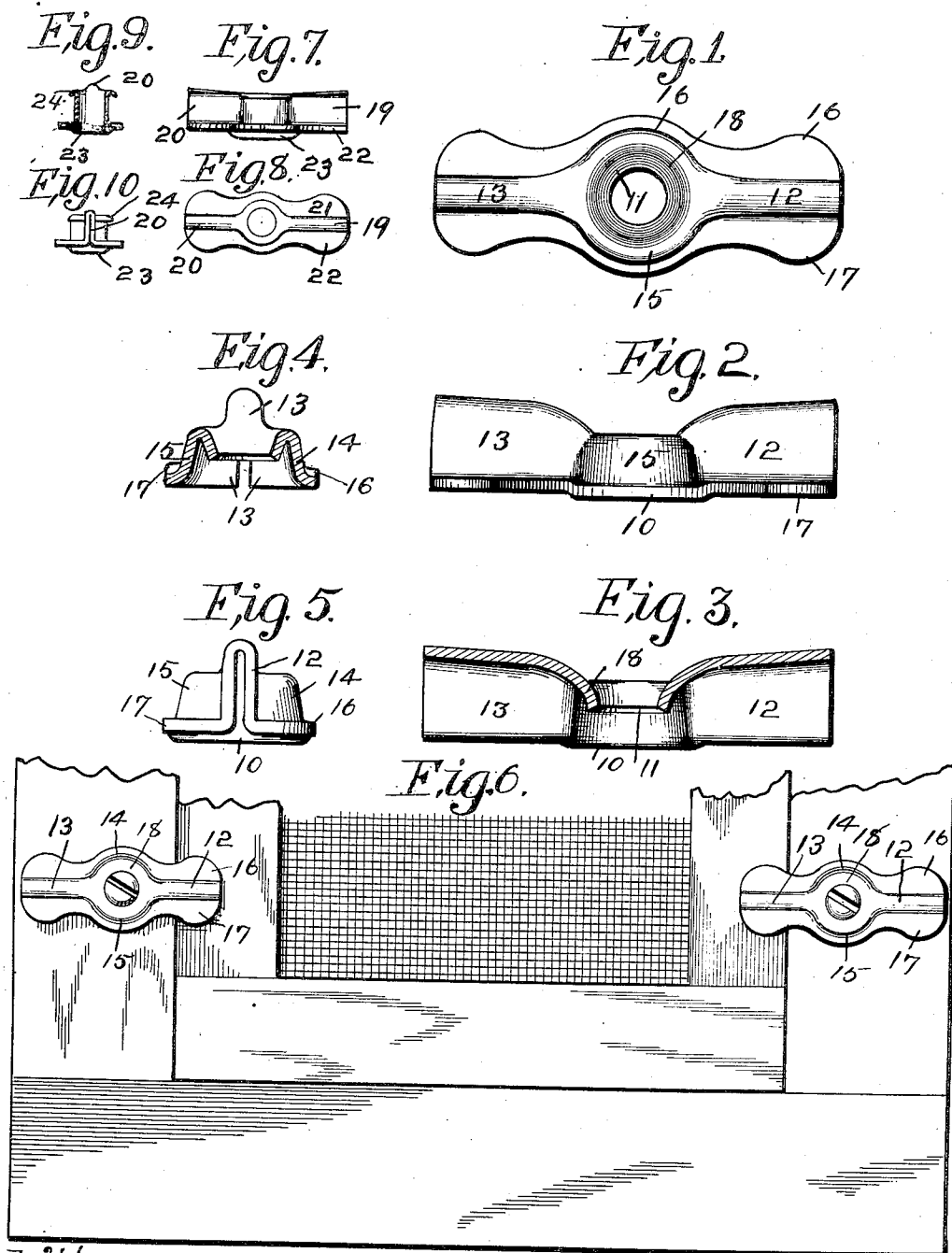


E. L. WATROUS.
FASTENING BUTTON.
APPLICATION FILED DEC. 4, 1905.

934,488.

Patented Sept. 21, 1909.



Witnesses
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UNITED STATES PATENT OFFICE.

EDWARD L. WATROUS, OF DES MOINES, IOWA.

FASTENING-BUTTON.

934,488.

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Application filed December 4, 1905. Serial No. 290,120.

To all whom it may concern:

Be it known that I, EDWARD L. WATROUS, a citizen of the United States, residing at Des Moines, in the county of Polk and State of Iowa, have invented a certain new and useful Fastening-Button, of which the following is a specification.

The object of my invention is to provide a fastening button of such construction that it will not be easily bent or broken, which will be of very inexpensive construction, of light weight and durable, and which is adapted for all of the ordinary uses of fastening buttons.

A further object is to provide a button of this class made entirely of sheet metal which is designed to be stamped out, and which has its parts braced so as to form a rigid one-part button.

My invention consists in certain details in the construction, arrangement and combination of the various parts of the device, whereby the objects contemplated are attained, as hereinafter more fully set forth, pointed out in my claim and illustrated in the accompanying drawings, in which—

Figure 1 is a plan view of the button. Fig. 2 is a side elevation of the same. Fig. 3 is a longitudinal, sectional view of the button. Fig. 4 is a cross sectional view of the same. Fig. 5 is an end elevation of the button. Fig. 6 is a detail view, showing a portion of a window frame with the button in the position in which it is ordinarily used for fastening a screen sash in its closed position. Fig. 7 is a side elevation of a modified form of the device. Fig. 8 is a plan view of the modified form of the device. Fig. 9 is a cross sectional view of the modified form of the device, and Fig. 10 is an end elevation of the modified form of the device.

Referring to the accompanying drawings, it will be seen in the preferable form of the device that there is provided a button which is stamped complete of a single piece of metal by a die, and which has a substantially circular bearing portion 10 through which an opening 11 extends to admit a screw through it. This bearing portion 10 extends below the rest of the button so that the only part of the button which engages the wood-work, to which the button is secured, as the button is rotated, is the bearing portion 10.

Extending outwardly from the bearing portion 10 are the retaining wings 12 and 13, each of which is of inverted U-shape in cross section, and each of which has two sides 14 and 15 which flare outwardly at their lower edges to form the engaging portions 16 and 17, shown clearly in the drawings. The central portion of the metal forming the wings, which also forms the central portion of the bearing portion 10, is bent downwardly and inwardly to form a circular rest 18 against which the screw head is designed to rest when the button is secured to wood or other material to which it is to be attached. On account of the peculiar construction of the wings 12 and 13, this portion of the button is very materially strengthened, and no danger of breaking these wings is prevalent. The construction of the bearing portion 10 and the circular rest 18 enables the button to swing freely, and with but a small amount of resistance, even though the button fits securely to the material to which it is secured.

The construction described above affords a very inexpensive button and one which is much lighter in weight than any button upon the market, and also one which is very durable in practical use.

In the modified form of the device, the wings, which I have in these forms numbered 19 and 20, instead of being substantially U-shaped in cross section, are constructed so that the sides of the metal forming the wings are forced into contact with each other, and the outwardly extending engaging portions of these sides, which I have numbered 21 and 22, are slightly wider in proportion to the size of the button than those shown in the preferable form of the device. The bearing portion, which I have numbered 23, instead of being bent inwardly to form a circular rest for the screw, as in the preferable form, is bent outwardly to form this circular rest 24. This forms a button slightly more compact in size, but of the same general construction as that shown in the preferable form.

Having thus described my invention, what I claim and desire to secure by Letters Patent of the United States, therefor is—

A fastening button formed complete of a single piece of sheet metal, comprising a

bearing portion having an opening extending through it and forming a circular rest for a screw head at its upper portion, wings extending outwardly from the bearing portion of substantially inverted U-shape in cross section, engaging portions extending outwardly from the lower surfaces of the wings and in opposite directions, the lower

portion of said engaging portions being slightly above the lower surface of the bearing portion. 10

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