J. A. HUNT.

PUSH PIN.

APPLICATION FILED JAN. 14, 1914.

1,120,656. Patented Dec. 8, 1914.

Fig. 1.

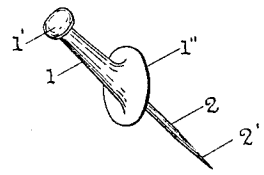


Fig. 2.

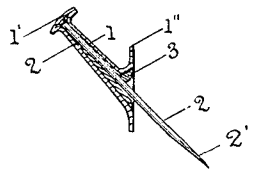


Fig. 3.

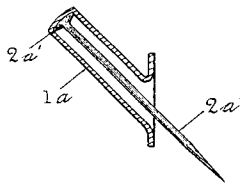


Fig. 4.

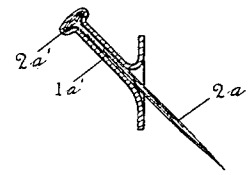


Fig. 5.

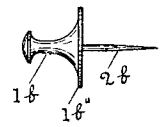
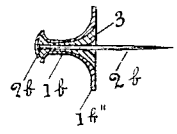


Fig. 6.



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PUSH-PIN.

1,120,656. Specification of Letters Patent. Patented Dec. 8, 1914.

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To all whom it may concern:

Be it known that I, JONATHAN A. HUNT, a citizen of the United States, residing at Westboro, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Push-Pins, of which the following is a specification.

My invention relates to push pins, and the object of my invention is to make an improved push pin, and my invention consists in certain novel features of construction of my push pin as will be hereinafter fully described.

In my improved push pin I preferably provide a pressed metal head, made of sheet metal, of hollow construction. With said head I combine a pin, one end of which passes through the central portion of the head, preferably to the outer thickness of the head, and the other end is made pointed, and extends beyond the annular flange on the metal head. The pin is firmly secured within the hollow metal head. I preferably make my push pin inclined, or extending at an angle of thirty or forty degrees to a perpendicular line, when it is in position.

Referring to the drawing: Figure 1 is a side perspective view of a push pin embodying my improvements, in its operative position. Fig. 2 is a central vertical section through the push pin shown in Fig. 1. Fig. 3 shows a modified construction of the pin shown in Fig. 2. Fig. 4 corresponds to Fig. 3, but shows the metal head swaged or compressed around the pin, to secure it within the head. Fig. 5 shows a modified construction of the push pin shown in the previous figures, and Fig. 6 is a central vertical section of the push pin shown in Fig. 5.

In the accompanying drawing, 1, Figs. 1 and 2, is the head of my push pin, which is formed from sheet steel or brass, with a hollow central portion. The head 1 has on its outer end a rounded knob 1′, and has at its inner end an annular flange 1″. The flange 1″, as shown in Figs. 1 and 2, extends at an angle to the barrel or central portion of the head 1, so that when the push pin is in operative position the head 1 will be inclined upwardly, at an angle of thirty or forty degrees to the annular flange or base portion 1″. Combined with the head 1 is a pin 2, preferably made of round wire, with a pointed end 2′, which is adapted to enter the surface on which the push pin is to be secured. The other end of the pin 2 extends through the central hollow portion of the head 1, and the extreme end of the pin preferably bears against the inner side of the rounded end 1′, as shown in Fig. 2. Solder 3, or other suitable material, may be put into the hollow portion of the head 1, around the pin 2, to secure the pin within the head 1, as shown in Fig. 2.

In Figs. 3 and 4 is shown a modified construction of the push pin shown in Figs. 1 and 2. This modified construction has a hollow metal head 1^a, as shown in Fig. 3, having substantially parallel sides intermediate the two ends. Combined with the metal head 1^a is the pin 2^a, which has on one end a head $2^{a\prime}$, and its other end pointed. The central part or bore of the metal head 1^a is large enough to receive the head $2^{a\prime}$ on the pin 2^a, and after the headed end of the pin 2^a has been inserted within the head 1^a, until the head of the pin bears against the inner surface of the outer end of the head 1^a, as shown in Fig. 3. The head 1^a, intermediate its flange end and its outer end, is then compressed or swaged around the pin 2^a, as shown at $1^{a\prime}$ in Fig. 4, to secure the pin 2^a within the head 1^a.

In Figs. 5 and 6 is shown another modified construction of the push pin shown in Figs. 1 and 2. In said figures, the head 1^b is not inclined, and the pin 2^b extends at a right angle to the annular flange $1^{b\prime\prime}$ on the head 1^b. In other respects the construction corresponds to the construction of the push pin shown in Figs. 1 and 2 above described.

The advantages of my improved push pin will be readily appreciated by those skilled in the art. The head being made of sheet metal, and reinforced by the pin extending within the head, and preferably soldered therein, with its end extending to the inner side and against the extreme end of the head, will permit of the push pin being driven by a hammer, or other tool, into a hard surface, without injuring the head of the pin. And further, by making the head and pin inclined, and extending at an angle of thirty or forty degrees to the annular flanged portion of the head, the supporting power of the pin, when used as a support or hanger for pictures or other articles, is greatly increased.

It will be understood that the details of

construction of my improved push pin may be varied if desired.

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

1. A push pin, comprising a metal head, having a hollow inner portion, and an annular flange thereon, extending at an angle other than a right angle, and a pin, pointed at one end, and its other end extending within said head, and secured therein.

2. A push pin, comprising a metal head formed from sheet metal, and having a hollow inner portion, and an annular flange thereon, extending at an angle other than a right angle, and a pin, pointed at one end, and its other end extending within said head, as far as the inner side of the end of said head, and secured within said head.

3. A push pin having a head formed of sheet material, with a central hollow portion, and one end rounded, and the other end with an annular flange, and a neck or barrel, of reduced diameter between the rounded end and the flanged end, and a pin, pointed at one end, and its other end extending within said hollow portion, and secured therein.

4. A push pin having a head formed of sheet material, with a hollow inner portion, and an annular flange thereon, extending at an angle other than a right angle, and a pin, pointed at one end, and its other end extending within said hollow portion and secured therein.

5. A push pin having a head formed of sheet material, with a hollow inner portion, and one end rounded, and the other end with an annular flange thereon, extending at an angle other than a right angle, and a neck or barrel of reduced diameter between the rounded end and the flanged end, and a pin pointed at one end, and its other end extending within said hollow portion and secured therein.

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