

Oct. 18, 1927.

1,646,039

C. B. MURTON

POST DRIVER

Filed Sept. 6, 1923

Fig. 1.

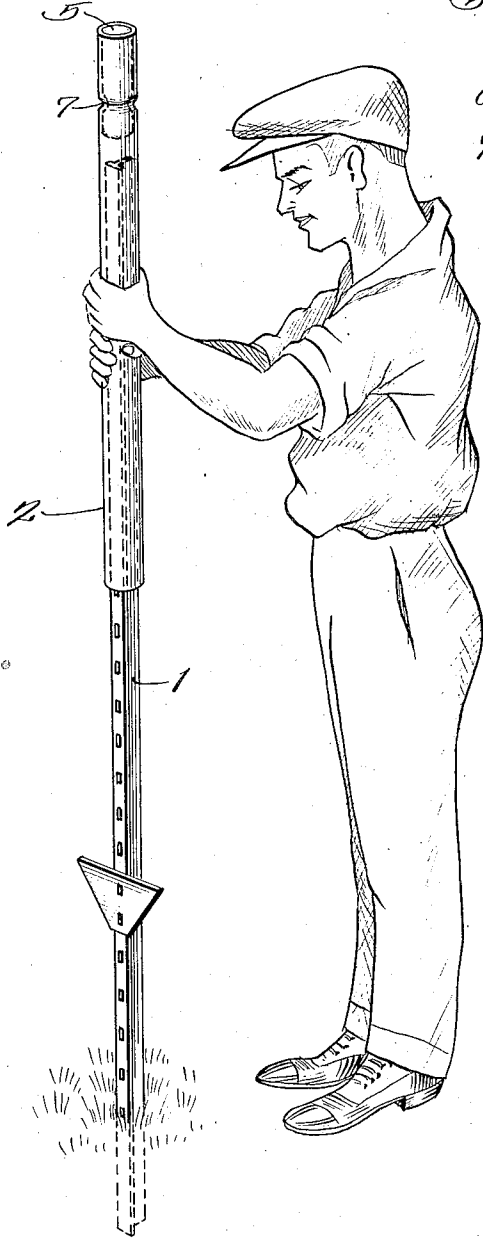


Fig. 2.

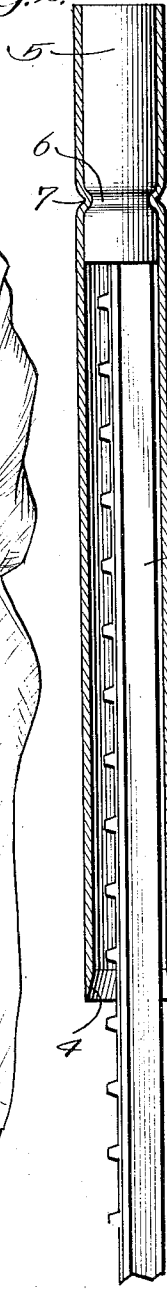


Fig. 3.



Fig. 4.

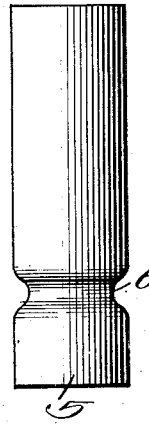


Fig. 5.

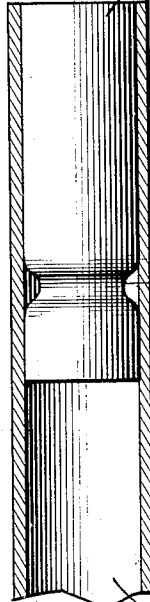
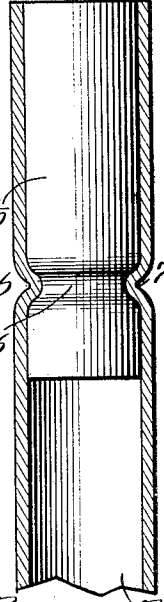


Fig. 6.



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1,646,039

UNITED STATES PATENT OFFICE.

CRAWFORD B. MURTON, OF CHICAGO HEIGHTS, ILLINOIS, ASSIGNOR TO INLAND STEEL COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF DELAWARE.

POST DRIVER.

Application filed September 6, 1923. Serial No. 661,214.

My invention relates to drivers for fence posts and the like. It consists of a sleeve adapted to fit loosely over the post and a weight in the upper end to serve as a driver. The object of the invention is to provide simple and efficient means for fastening the weight to the sleeve.

I accomplish my object in the manner illustrated in the accompanying drawing, in which

Figure 1 is a general perspective view showing the manner of using the device;

Figure 2 is a vertical section showing the driver in acting position on a post;

Figures 3 to 6 show successive steps in the process of manufacture. Figure 3 shows the weight before receiving the circumferential groove. Figure 4 shows it after receiving such groove. Figure 5 shows the grooved weight in position in the sleeve before the latter is circumferentially grooved and Figure 6 shows the sleeve grooved and the device completed.

Like numerals denote like parts throughout the several views.

The device is intended for driving into the ground such posts as that marked 1, Figures 1 and 2. Of course, the particular type or form of post is not essential. The device itself consists of a sleeve 2 which may appropriately be an ordinary 2 inch pipe cut to a length of 30 inches. These dimensions may of course be varied. It is desirable that the mouth of the sleeve be internally beveled as at 4, so it may be more readily slipped over the top of the post and to avoid catching on projections on the post, if any there be.

The weight 5 is of proper size to fit fairly snugly within the sleeve. It may be formed of a 2 inch piece of cold rolled steel about 4 or 5 inches long although the kind of material and the length may be varied.

Post drivers or driving caps of this general type are not new, but heretofore it has required a good many operations to fasten the weight in the sleeve. If rivets are employed, both the sleeve and the weight must be drilled and usually at least two rivets are necessary. Then the rivets must have their ends riveted. This not only is an expensive way to accomplish the purpose, but constant jarring tends to crystallize the rivets and

cause them to shear off. Also if the work is not very carefully done, the rivet heads are apt to injure the hands of the user. According to my invention, after the weight has been cut to length, as in Figure 3, a circumferential groove 6 is formed in it as shown in Figures 4 and 5. The depth of the groove is approximately equal to the thickness of the metal of the sleeve, thus ensuring that the parts will not become loosened and separated as a result of the constant jarring arising from the use of the device. The weight is then inserted into the sleeve with its upper end flush with the upper end of the sleeve. The sleeve is then heated and the metal of the sleeve forced snugly into the groove into the weight as shown in Figure 6. This may be done by a rolling process and the groove 7 will then be circumferential.

A post driver constructed in this manner is practically indestructible. There are no rivets or other fastening devices to shear off and the configuration of the metal is such that the sleeve will withstand more jarring than any person can possibly subject it to. There are no rivet heads to hurt the hands of the user and no separate pieces required for fastening the parts together. The operations of grooving the weight and the sleeve are simple and inexpensive and the result is that a highly efficient article is produced at a minimum cost.

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

1. A post driver comprising a sleeve and a weight in the upper end of the sleeve, the weight having a deep annular recess in the side and the metal of the sleeve being deformed to enter said recess.

2. A post driver comprising a sleeve and a weight in the upper end thereof, the weight having a circumferential groove, and the sleeve having a circumferential depression seating in said groove, the depth of the groove being approximately equal to the thickness of the metal of the sleeve.

3. A post driver comprising a sleeve and a weight within said sleeve at the upper end, the weight having a circumferential groove substantially as deep as the thickness of the metal of the sleeve, and the sleeve having a

deformation seating in said groove whereby the weight and the sleeve may be used as a post driver, and the metal of the sleeve may be solely relied upon to hold the parts together in proper relation.

5 4. A post driver comprising a sleeve and a weight housed within the sleeve, the weight

having an annular groove, and the metal of the sleeve being deformed to seat in said groove.

In witness whereof, I have hereunto subscribed my name.

CRAWFORD B. MURTON.