

(No Model.)

2 Sheets—Sheet 1.

J. CRUMP.

FENCE POST.

No. 303,625.

Patented Aug. 19, 1884.

Fig. 1.

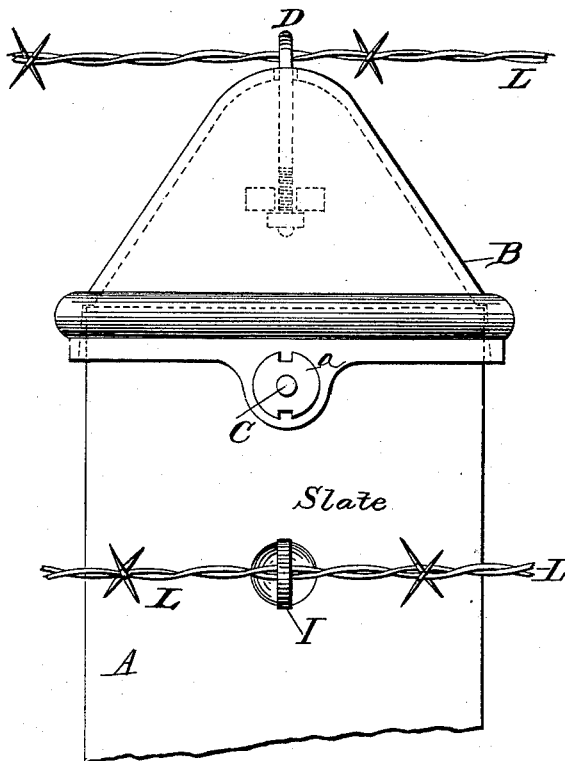
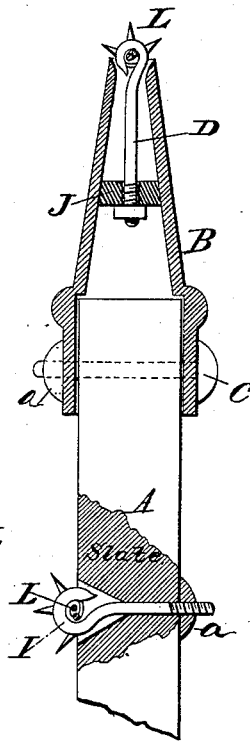


Fig. 2.



WITNESSES:

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INVENTOR:

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*by Dodge & Son*  
*Attys*

(No Model.)

2 Sheets—Sheet 2.

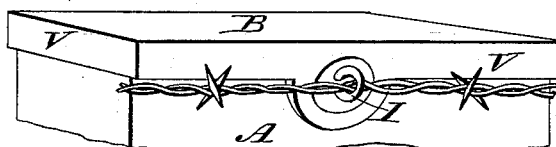
J. CRUMP.

FENCE POST.

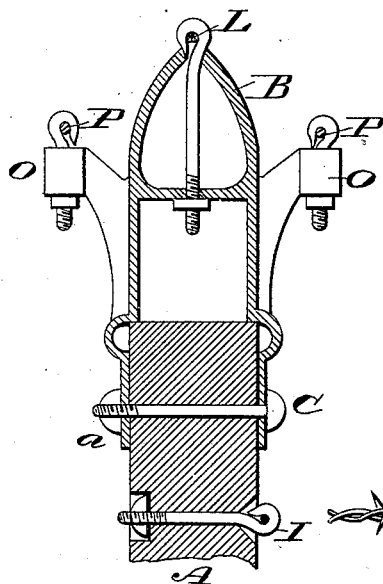
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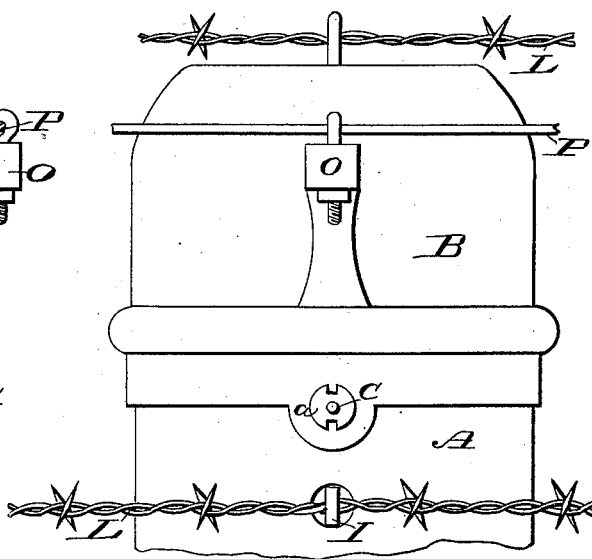
*Fig. 3.*



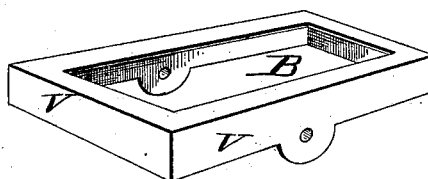
*Fig. 4.*



*Fig. 5.*



*Fig. 6.*



*Witnesses:*

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*Inventor:*

*John Crump.*  
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# UNITED STATES PATENT OFFICE.

JOHN CRUMP, OF PHILADELPHIA, PENNSYLVANIA.

## FENCE-POST.

SPECIFICATION forming part of Letters Patent No. 303,625, dated August 19, 1884.

Application filed January 31, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN CRUMP, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain  
5 Improvements in Posts and Fences, of which the following is a specification.

My invention relates to fence-posts; and the invention consists of a post made of slate and provided with a metallic cap carrying de-  
10 vices for supporting the strands of wire, all as hereinafter more fully set forth.

Figure 1 is a side elevation of a portion of a post embodying my invention; and Fig. 2 is an edge view of the same shown partly in  
15 section. Fig. 3 is a perspective view of the top of a post, showing a simple form of the cap for general use; and Figs. 4 and 5 are front and vertical sectional views, respectively, of portions of a post having caps of a  
20 modified construction with the guard-wires attached. Fig. 6 is a perspective view of a modified form of the cap detached.

The construction of fences throughout the country necessitates an enormous expenditure,  
25 and the fact that the posts, and until recently the body also of the fence, have usually been made of wood, which soon decays, has added immensely to their cost, as they must be constantly repaired or replaced entire.

30 The primary object of my invention, therefore, is to provide a post for use in the construction of fences, and which may also be used for other purposes, that shall be practically indestructible, and in connection therewith to provide means for securing the wires  
35 or bars to be used for forming the body of the fence to such posts, and, when desired, providing guards for preventing the barbed wire used from injuring the live stock. In order  
40 to accomplish these results I make the body A of my improved post of slate or similar argillaceous stone, which, as is well known, exists in large quantities, and can be easily and  
45 cheaply furnished of the required size and form. Posts formed of this material, owing to the ease with which it is split, would be liable to be soon destroyed, because experiment  
50 has demonstrated that the insertion of a knife-blade or any sharp or pointed instrument, or even a blow on its end, will cause it to split into pieces or fragments, especially when its fissures

or seams are filled with moisture or frost, and in some cases the freezing and consequent expansion of the moisture in the seams will of itself rupture the stone, and more especially so when  
55 standing vertically with its end exposed to the elements, as it necessarily would when used unprotected as a post. To obviate this difficulty I provide a cap, B, which may be made of metal or any material that is both  
60 fire and water-proof, and so constructed as to fit over the upper or exposed end of the post A in such a manner as to inclose and protect the same, as shown in the several figures from  
1 to 5, inclusive.

One of the simplest and cheapest forms of  
65 cap is that shown in Fig. 3, in which it is represented as being made of sheet iron, and of such a size as to cover the end or top of the post, and have a flange, *v*, projecting  
70 downward on all four sides, thus encircling the post at its end like a hoop. In this case I have shown the cap B as being secured to the post by an eyebolt, I, which also serves to support the wire L; but it may be fastened by  
75 other means, if desired.

In Figs. 1 and 2, I have shown the cap B as being made of cast-iron, it being provided with an internal shoulder to rest on the top of the post, while the part below encircles the  
80 post, the same as does the flange *v* in the former case. In this instance the cap is shown secured to the post A by a transverse bolt, C, on the end of which is a nut, *a*, preferably so  
85 constructed that it cannot be unscrewed by an ordinary wrench or tool, the object being to prevent their being tampered with by boys or malicious persons.

To secure the fence-wire L to the top of the cap, I provide an eyebolt, D, as shown in Figs.  
90 1 and 2, which extends from the top down into the cap, and preferably through a lug, J, formed on its interior, where it is secured by a nut, as shown in Fig. 2.

It will be observed that the hole in which  
95 the eye of this bolt D fits is made of such a shape and size as to permit the eye or bent portion to be drawn down into it, so that it cannot be pried open to release the wire L. In that case it will of course be necessary to  
100 insert the wire in the eye of the bolt, place the latter in position, and screw up the nut be-

fore securing the cap upon the body A. It is obvious, however, that instead of the bolt D a small wrought-iron eye or staple may be placed in the mold in such a manner as to be embedded in the molten metal when the latter is poured into the mold to form the cap B. In case plain wire be used the strand can be readily passed through this eye or staple; but in case barbed wire be used it will be necessary to use an eye or hook open at one side, so that the wire can be slipped in at the opening, after which the eye or hook can be hammered down or otherwise closed upon the wire and made to hold it securely in place. Other forms of fastening may of course be used, if desired.

To secure the wire at other points on the posts, I make holes through the post and insert eyebolts or hooks I, as shown in Figs. 2 and 4, the hole being countersunk, so as to permit the eye, after the wire L has been inserted, to be drawn into the countersink, and thus prevent the eye from being opened. The nut a used on this eyebolt may, if desired, be fitted into a recess, as shown in Fig. 4, to render it more secure against displacement or removal.

One serious objection to the use of the barbed wire is the injury to stock, more especially horses, by the barbs, this injury arising in nearly all cases from the barbs on the top wire of the fence by the animals attempting to get over the same, or by their resting their necks or heads over or on the same—a habit more especially common to horses. In order to prevent injury from this source, I provide the cap B, when desired, with laterally-projecting arms O, as represented in Figs. 4 or 5, or in any similar manner, for the purpose of supporting at each side a plain wire, P, which thus serves as a guard wire, especially at the top. When the plain sheet-iron cap shown in Fig. 3 is used, a projecting arm or small rod may be used for supporting the plain wire, said arm or rod being secured to the post or cap in any suitable manner. A simple plan would be to elongate the eyebolt I of Fig. 3 and provide it with two eyes—an outer one for the plain wire and one close to the post for the barbed wire.

It will readily be seen that by means of the cap B the stone body will be fully protected from injury arising from the causes hereinbefore stated, and that thus I am able to produce a fence-post which will last for an unlimited period, and which will neither rot, rust, nor burn.

While galvanized sheet-iron and cast-iron are the most obvious materials for making these caps, they may be made of other material—such, for instance, as paper-pulp, which can be readily molded or pressed into the required shape, the same being rendered water-proof, or both water and fire proof, if desired, by means well known, and therefore unnecessary to describe herein. So, too,

it is obvious that instead of making the cap to cover the entire top, as represented in Fig. 3, it may be made with its central top portion open, it in that case resembling merely a rectangular band having an inwardly-projecting flange to rest upon the top of the stone, as shown in Fig. 6. As, however, the difference in cost would be but little, and as such a cap would not protect the end fully from the weather, I prefer to make it as shown in Fig. 3, so as to cover the entire top of the stone part A.

While I have thus far spoken of the post as being used for ordinary farm-fences, it is obvious that it is equally well adapted for use instead of the iron posts ordinarily used in the construction of iron fences or railings used in cities for inclosing residences, public grounds and buildings, cemeteries, and the like. So, too, they may be used for gate-posts, hitching-posts, posts for supporting clothes-lines, and all similar purposes; and as this kind of stone is very strong transversely, and can be procured without difficulty in lengths of twenty-five feet or more, they can be used for telegraph-posts and all similar purposes.

In constructing these posts for ordinary farm-fences, the body A may be made from two by six to four by eight inches transversely and of any required length, and will be perfectly plain; but when used for other purposes they may have their corners beveled, or be made octagonal in whole or in part, and thus rendered more ornamental. One great advantage of such a post is that its body does not require to be painted, and will not rust or burn, and is therefore specially well adapted for use along railways, where much loss is annually occasioned by the burning of the wooden fences generally used. It will of course be understood that the caps may be made in any style desired, and thus be rendered more or less ornamental, according to the special use for which the posts are designed.

Having thus fully described my invention, what I claim is—

1. The stone post A, in combination with the cap B, having a flange projecting downward to fit over the upper or exposed end of the post in such a manner as to inclose and protect the same, said cap being provided with the eyebolt D or equivalent device for supporting a central wire strand, L, substantially as shown and described.

2. In combination with the stone post A, the metallic cap B, having a flange projecting downward to fit over the upper or exposed end of the post in such a manner as to inclose and protect the same, said cap being provided with the arms O, for supporting guard-wires P at the sides, substantially as shown and described.

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Witnesses:

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CHARLES L. CRUMP.