

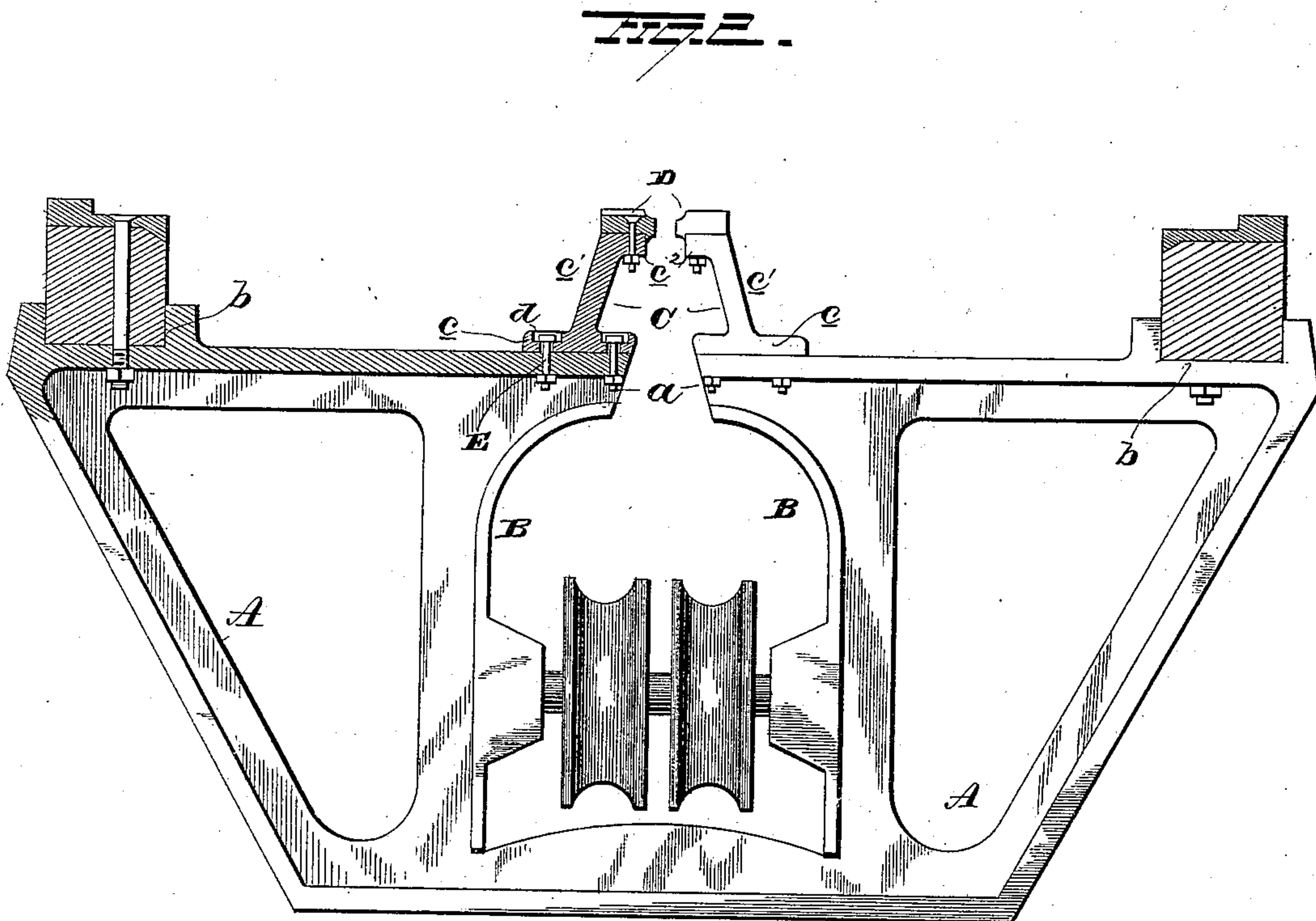
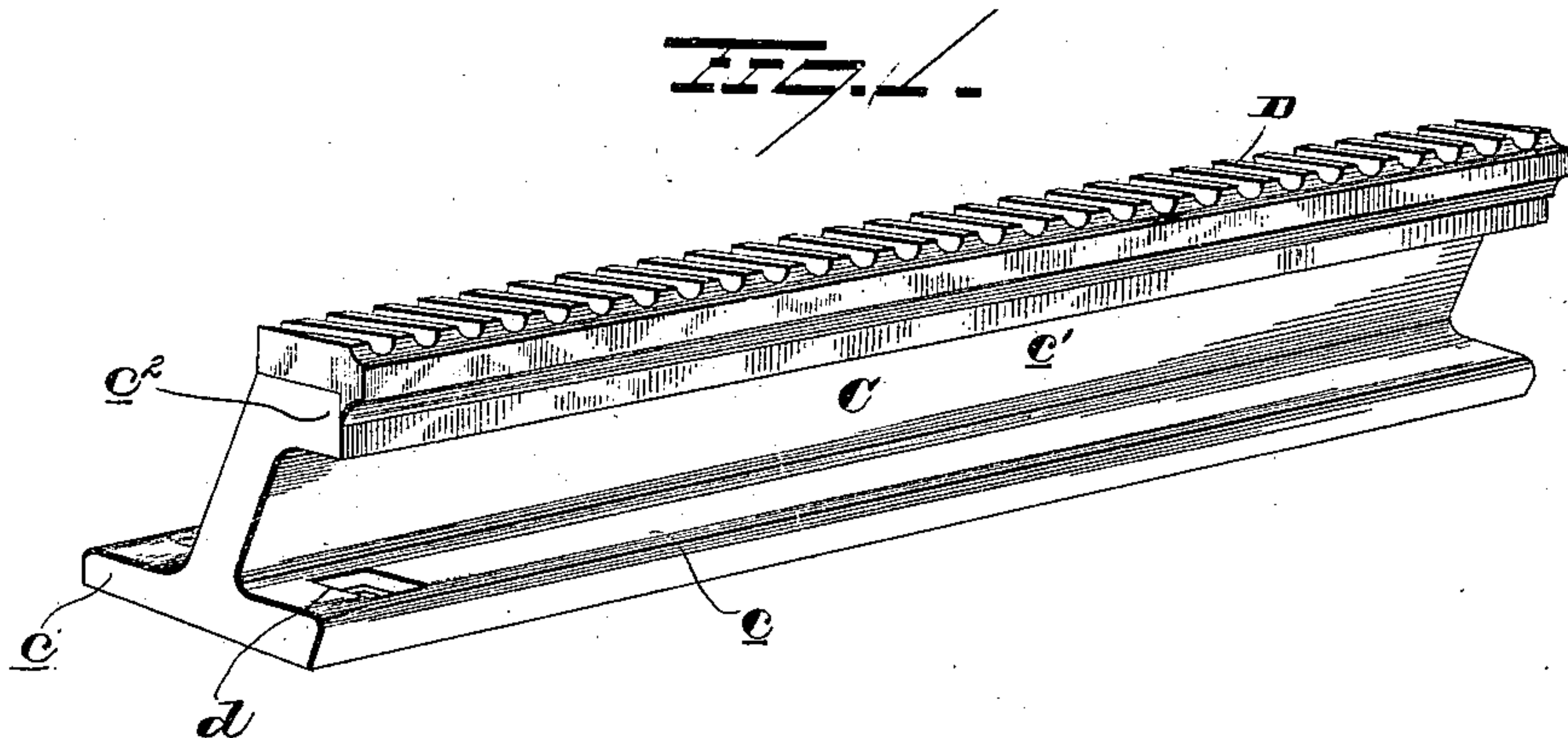
(No Model.)

E. D. DOUGHERTY.

SLOT IRON FOR CABLE RAILWAYS.

No. 333,205.

Patented Dec. 29, 1885.



WITNESSES.

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EDWARD D. DOUGHERTY, OF PHILADELPHIA, PENNSYLVANIA.

SLOT-IRON FOR CABLE RAILWAYS.

SPECIFICATION forming part of Letters Patent No. 333,205, dated December 29, 1885.

Application filed September 11, 1885. Serial No. 176,826. (No model.)

To all whom it may concern:

Be it known that I, EDWARD D. DOUGHERTY, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Slot-Irons for Cable Railroads; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in slot-irons for cable railroads, the object of the same being to provide a strong and durable slot-iron that can be easily and quickly adjusted to increase or decrease the size of the slot through which the grip passes.

A further object is to provide the adjustable slot-iron with a removable wearing-face, whereby the parts exposed to wear can be renewed in a short space of time without the necessity of tearing up the road-bed or stopping travel; and with these ends in view my invention consists in the parts and combinations of parts, as will be more fully described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a perspective view of a slot-iron embodying my invention, and Fig. 2 is a view in transverse section showing the iron applied to one form of supporting-bracket.

A represents a bracket of any approved design, having a slot, *a*, for the passage of the grip to the cable, located within the tube B and seats *b* for the rails. The slot-irons C are seated on the bracket on opposite sides of the slot, and each consists of a broad base, *c*, a web, *c'*, extending upwardly from the central portion of the base and inclined inwardly, and an inwardly-projecting flange, *c''*, constructed integral with the web *c'* and forming a seat for the plates D. The base of each slot-iron is provided at suitable intervals apart on opposite sides of the web *c'* with the transverse elongated openings *d*, through which the bolts E, which secure the slot-irons to the bracket, pass. The base of the slot-iron may also have recesses therein communicating with the bolt-openings *d* for the heads of the bolts; but the device is just as efficient if the heads of the

bolts rest on the upper surface of the base. The openings *d* are of a length sufficient to permit the slot-irons to be moved inwardly to take up the wear, and as this inward movement is comparatively small, the bolt-heads can be made large enough to cover the openings and prevent dirt from entering therein. Instead of the above, the bolts can be provided with sheet-metal washers below the heads and answer the same purpose. The bolts E pass through the base and brackets and are secured into screw-threaded openings in the brackets; or they can project below the bracket and be secured by nuts, as shown in the drawings. The upper face of the flange *c''* is flat, and forms a seat or rest for the wearing-plates D, which, in the present instance, are provided with corrugated upper surfaces, for the purpose of preventing horses from slipping thereon. These wearing-plates are removably secured in position by bolts or otherwise, and each is provided with an inwardly-projecting lip, which latter overhangs the inner edges of the flanges of the slot-irons and takes all the wear occasioned by contact with the grip. The upper surface of this inwardly-projecting lip is concaved to prevent horse-shoe-calks from becoming wedged or sticking.

By means of the above improvement I am enabled to adjust the slot-irons to take up any wear, and am also enabled to remove the portion subjected to the wear and replace it at a small cost in a few moments without stopping traffic.

It is evident that numerous slight changes in manner of securing the slot-irons to the brackets might be resorted to; hence I would have it understood that I do not confine myself to the exact construction shown and described, but consider myself at liberty to make such changes as fairly fall within the spirit and scope of my invention.

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

1. The combination, with an adjustable slot-iron, of a corrugated wearing-plate removably secured to said adjustable slot-iron, substantially as set forth.

2. The combination, with a laterally-adjustable slot-iron, of wearing-plates removably secured to said slot-irons.

3. The combination, with a bracket and slot-irons adjustably secured thereon, of wearing-plates removably secured to said irons, substantially as set forth.

4. The combination, with a bracket, of the slot-irons, consisting, essentially, of the base, the web extending upwardly from or approxi-

mately from the center of the base, the inwardly-projecting flange, and a removable wearing-plate, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

EDWARD D. DOUGHERTY.

Witnesses:

S. G. NOTTINGHAM,

J. E. JONES.