

(Model.)

W. ORR.
WIRE FASTENER.

No. 359,463.

Patented Mar. 15, 1887.

Fig. 1.

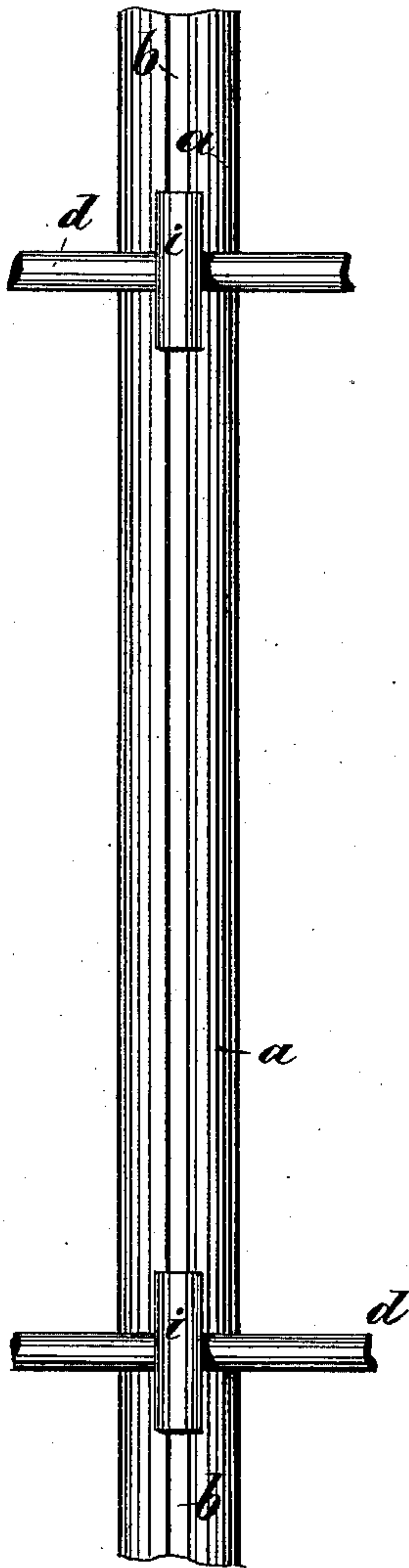


Fig. 2.

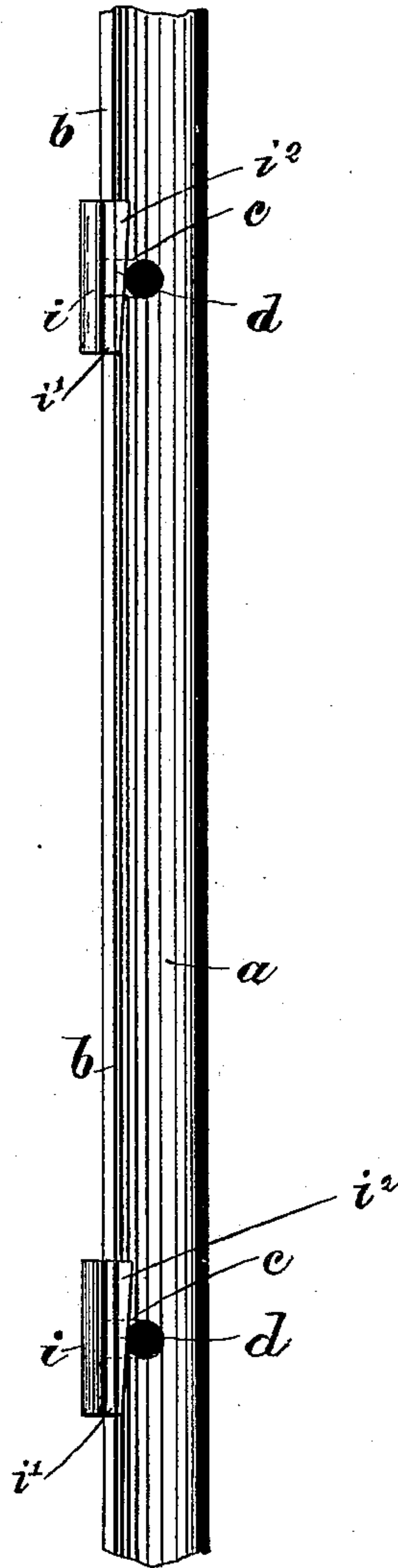
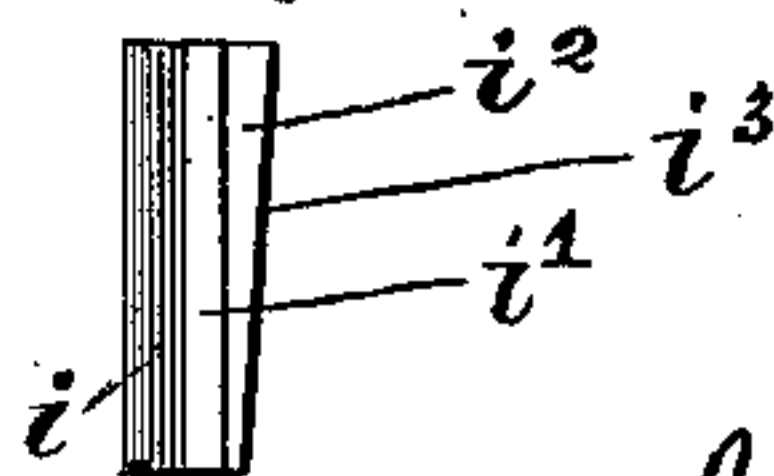


Fig. 3.



Fig. 4.



Witnesses:
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UNITED STATES PATENT OFFICE.

WILLIAM ORR, OF GLASGOW, COUNTY OF LANARK, SCOTLAND.

WIRE-FASTENER.

SPECIFICATION forming part of Letters Patent No. 359,463, dated March 15, 1887.

Application filed July 26, 1886. Serial No. 209,152. (Model.) Patented in England July 15, 1885, No. 8,570; in Germany May 4 1886, No. 38,142; in France May 28, 1886, No. 176,421; in Belgium May 29, 1886, No. 73,298; in Victoria July 13, 1886, No. 4,620; in Canada September 6, 1886, No. 21,892; in Cape of Good Hope October 11, 1886, No. 364, and in New South Wales November 23, 1886, No. 1,971.

To all whom it may concern:

Be it known that I, WILLIAM ORR, a citizen of the United Kingdom of Great Britain and Ireland, residing at Glasgow, in the county of Lanark, Scotland, have invented new and useful Improvements in Metal Fencing, parts of the said improvements being also applicable to other purposes, (which has not been patented in any country, except Great Britain by Letters Patent dated July 15, 1885, No. 8,570; Germany, by Letters Patent dated May 4, 1886, No. 38,142; France, by Letters Patent dated May 28, 1886, No. 176,421; Belgium, by Letters Patent dated May 29, 1886, No. 73,928; Victoria, by Letters Patent dated July 13, 1886, No. 4,620; Canada, by Letters Patent dated September 6, 1886, No. 24,892; Cape of Good Hope, by Letters Patent dated October 11, 1886, Register folio No. 364, and New South Wales, by Letters of Registration dated November 23, 1886, No. 1,971;) and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the manufacture or art to which it relates to make and use the same.

This invention relates to droppers and standards and to fasteners for the wires of metal fencing; and it has for its object, while conserving the strength and rigidity of the fence, to make it lighter, simpler, and cheaper to construct.

Under the invention the standards and droppers are made hollow or tubular, but of an incomplete section—that is to say, in manufacturing the tube it is made with a slot or opening running or extending from end to end, in order that the fastener or holder for the horizontal wires or bars may be placed or held within and project from the hollow of the tube through the slot in such a manner as to be free to be moved up and down to adapt itself to different spacings of wires or bars. At the points in the standards or droppers where the wires are to be held a cross-slot is made at right angles to the vertical slot, the wires being carried in the said cross-slot.

Referring to the drawings, Figure 1 is a front elevation of the improved standard or dropper and fastener. Fig. 2 is a vertical section of the same at right angles to Fig. 1,

the fasteners being in elevation. Fig. 3 is a horizontal section, the fastener and wire being in plan. Fig. 4 is a detailed side elevation of the fastener.

As shown by Figs. 1, 2, and 3, the standard or dropper *a* is made tubular, and in the act of manufacturing the tube the edges of the metal plate are not brought completely up to each other, but a space is left between them, constituting a slot or opening, *b*, running throughout the length of the tube, which is cut into sections or lengths, as desired. At distances apart corresponding to the distances between the wires, horizontal slots *c* are cut at right angles to the vertical slot *b*, as shown at Fig. 2, and into these slots *c* the wires *d* are inserted, being held in position by the fastener, which consists of a vertical wedge or key of rail *H*, or like section. The fastener is formed with a head or bead, *i*, web *i'*, and wedge-shaped sole *i''*. The fastener is slipped or driven down the slot in front of the wires, the inclined face *i''* of the wedge-shaped sole bearing on the wire or bar.

In erecting the fence the standards may be stiffened below and a little above the ground line by inserting into each of them a bar to fill up the hollow of the tube, and they, as well as the droppers, may have ornamented or other tops screwed or otherwise secured to them.

Having now described the invention, what I desire to claim and secure by Letters Patent is—

In metal fencing, the combination of the tube *a* having opening *b*, extending vertically throughout its length, and horizontal slot *c*, cut across the opening, and the vertical fastener sliding in said opening, formed with a bead or head, *i*, web *i'*, and wedge-shaped sole *i''*, having vertical inclined face *i''*, substantially as shown and described.

In witness whereof I have hereunto set my hand this 25th day of June, 1886.

WM. ORR.

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