

(No Model.)

C. E. VANDERCOOK.
WIRE HINGE.

No. 540,704.

Patented June 11, 1895.

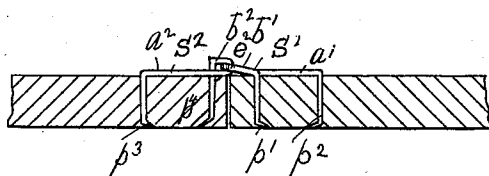


FIG 2

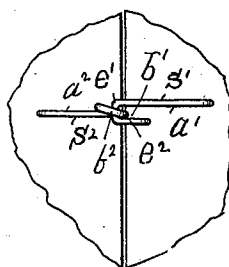


FIG 1

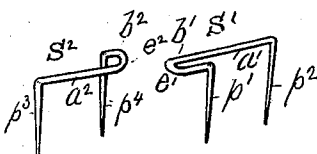


FIG 3

FIG 4

WITNESSES

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UNITED STATES PATENT OFFICE.

CHARLES E. VANDERCOOK, OF TROY, NEW YORK.

WIRE HINGE.

SPECIFICATION forming part of Letters Patent No. 540,704, dated June 11, 1895.

Application filed October 15, 1894. Serial No. 525,868. (No model.)

To all whom it may concern:

Be it known that I, CHARLES E. VANDERCOOK, of the city of Troy, Rensselaer county, State of New York, have invented new and useful Improvements in Wire Hinges, of which the following is a specification.

My invention relates to wire hinges, and an improved construction by which their production is simplified, and the cost of making them much reduced, the attainment of these conditions constituting the object of my invention.

My invention consists (as will be more fully detailed hereinafter in the claim) of two staple parts made of wire, one of them at its hinging end having formed therein beyond its prong a U-form bend which is in parallel alignment with the body-part and at its other end having a staple-prong with both of the prongs at right angles to the body-part; and the other staple-part made with a loop on its hinging end which is projected outwardly and upwardly from the body-part beyond its adjacent prong, with the loop having a rounded outer end, and upon its inner end where projected from the loop to be so projected at right angles to the body-part, to form the prong and so as to form on the inner end of the loop a flat top surface to the latter to facilitate its being driven into the wood; with the two staple-parts thus made adapted to interlock and to be connected to the parts whereon it is desired to make the hinged connection by the prongs.

Accompanying this specification to form a part of it there is a plate of drawings containing four figures illustrating my invention with the same designation of parts by letter reference used in all of them.

Of these illustrations, Figure 1 shows a plan view of my improved wire hinge with the parts connected and applied to form a hinged connection between two boards. Fig. 2 shows a section taken through the wood to which the hinge is shown as attached, with the latter shown in side elevation. Figs. 3 and 4 show perspectives of the hinged parts as disconnected and detached.

The several parts of the staples thus illustrated are designated by letter reference and the function of the parts is described as follows:

The letters S', and S², designate the staple-parts.

The staple part S', has two prongs p', and p², the latter being arranged on the outer end

of the body-part a', and at right-angles to the latter with the other prong p², formed on the inturned end of the bend b'. The latter is of a U-form. It has a rounded outer end e', and is projected laterally from the side of the body-part a', so as to be in horizontal alignment therewith. Where the end of the loop connects with the prong-part p', it forms a right-angle with a flat top to facilitate driving in the prong for attachment.

The staple-part S², has a body-part a², and prongs p³ and p⁴, and it has formed on its hinging end the bend b², which is outwardly projected from the body-part a², and at its inner end this loop has formed on its end the prong p⁴. This bend is rounded at its end e², and the wire forming this bend b², where bent downwardly to produce the prong p⁴, is bent at right-angles so that at the top of the prong the surface will be straight and adapted for the driving into the wood of the prong.

The two staple parts when used are connected as shown at Fig. 1, and the hinged part a are folded back on themselves the projecting bend b², passes in between the sides of the bend b', in consequence of the U-form given to the latter. With the staple parts interlocked the prongs are driven into the wood and the hinged connection is made. As thus formed a very serviceable hinge is obtained for cheap work, and one that is very easily applied.

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

A hinge made from wire having the two staple-parts S' and S², the latter having the straight body-part a', and provided with a prong p², on its outer end, and the U-form bend b', and prong p', on its hinging end; and the staple-part S², having the body-part a², made with the prong p³, at its outer end, and the loop-form bend b², having the prong p⁴, with said hinge-parts adapted to connect and be attached substantially in the manner shown and described.

Signed at the city of Troy, New York, this 12th day of October, 1894, and in the presence of the two witnesses whose names are hereto written.

CHARLES E. VANDERCOOK.

Witnesses:

CHARLES S. BRINTNALL,
W. E. HAGAN.