

No. 809,134.

PATENTED JAN. 2, 1906.

C. D. REECE & F. T. AUSTIN.

WIRE HINGE.

APPLICATION FILED APR. 1, 1905.

2 SHEETS—SHEET 1.

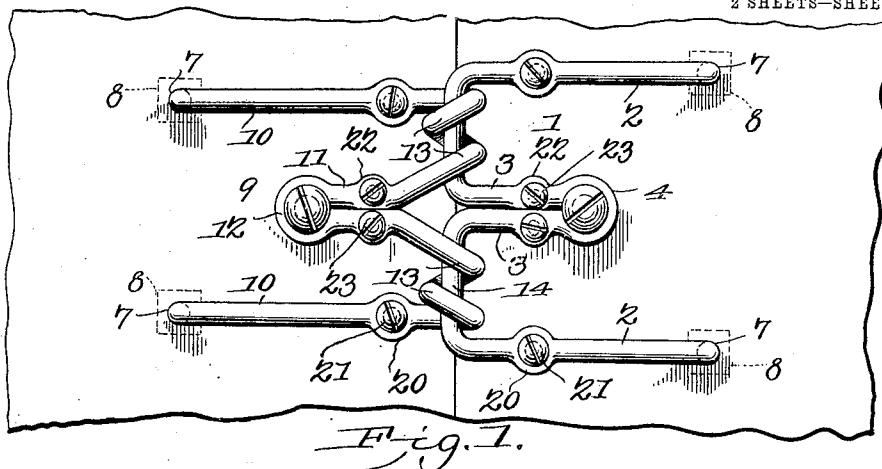


Fig. 1.

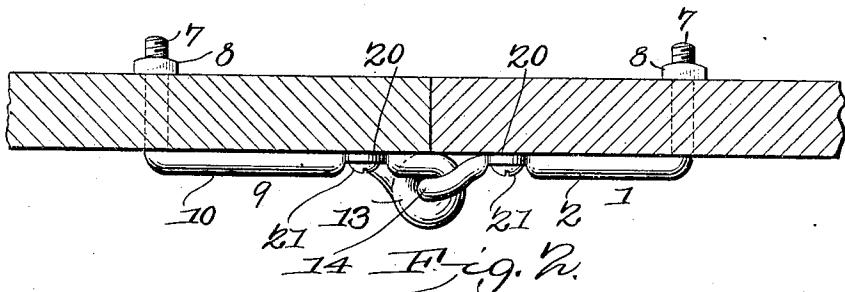


Fig. 2.

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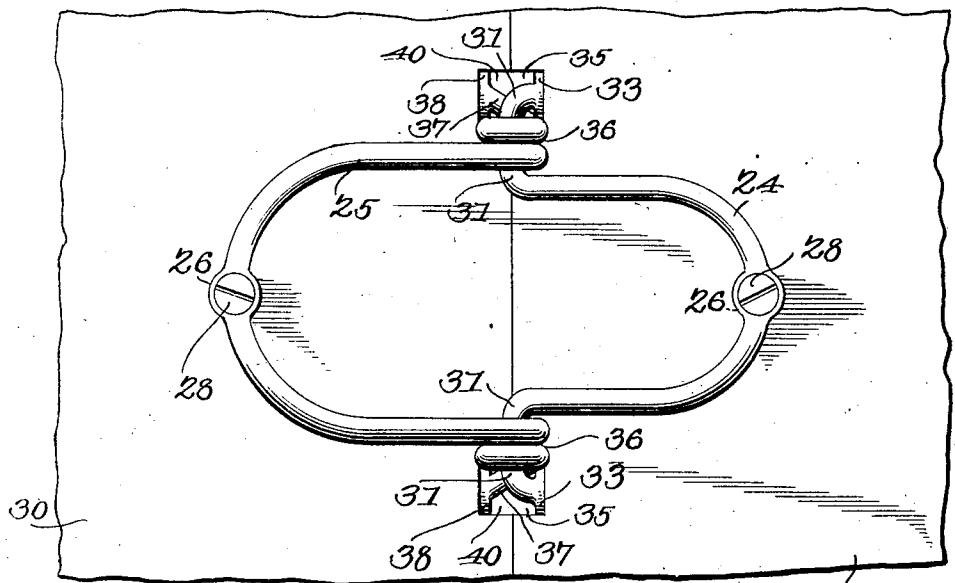


Fig. 3.

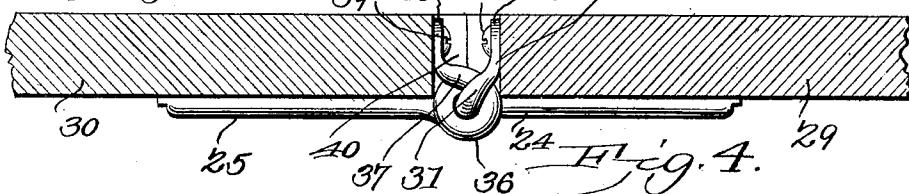


Fig. 4.

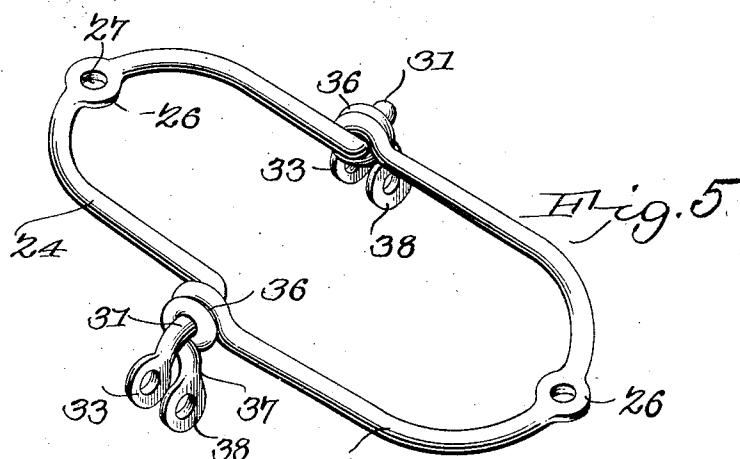


Fig. 5.

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UNITED STATES PATENT OFFICE.

CURTIS D. REECE AND FREDERICK T. AUSTIN, OF COGGON, IOWA.

WIRE HINGE.

No. 809,134.

Specification of Letters Patent.

Patented Jan. 2, 1906.

Application filed April 1, 1905. Serial No. 253,289.

To all whom it may concern:

Be it known that we, CURTIS D. REECE and FREDERICK T. AUSTIN, citizens of the United States, residing at Coggon, in the 5 county of Linn and State of Iowa, have invented a new and useful Wire Hinge, of which the following is a specification.

This invention relates to wire hinges, and has for its object to provide certain new and 10 useful improvements in the bending and assemblage of the members of the hinge whereby the complete hinge has all of the functions of an ordinary hinge and possesses advantages in point of simplicity, durability, efficiency, and inexpensiveness.

The present invention consists in the combination and arrangement of parts, as will be hereinafter fully described, shown in the accompanying drawings, and particularly 20 pointed out in the appended claim, it being understood that changes in the form, proportion, size, and minor details may be made within the scope of the claim without departing from the spirit or sacrificing any of the 25 advantages of the invention.

In the accompanying drawings, Figure 1 is an elevation of one embodiment of the invention. Fig. 2 is a top plan view of the hinge. Fig. 3 is an elevation of another embodiment 30 of the invention. Fig. 4 is a plan section thereof. Fig. 5 is a detail perspective view of the form of hinge shown in Fig. 4.

Like characters of reference designate corresponding parts in each figure of the drawings.

In each form of the present invention the hinge consists of two pivotally-connected members, each member being formed from a single length of wire which is bent into the 40 form of a yoke. As embraced in Figs. 1 and 2 the pintle member 1 is in the form of a yoke with its side members 2 either parallel or diverged, as may be desired, the middle part of the cross portion of the wire between 45 the side members 2 being bent inwardly between the side members, as at 3, to form a stiffener-brace which terminates in an eye 4, through which a suitable fastening is adapted to be driven to rigidly secure this portion of 50 the hinge to a door or other member. The extremities of the member are made cylindrical and threaded, with the threaded portion bent at substantially right angles to the plane of the hinge member, as at 7, to form an attaching element having a nut 8. The other 55 or swinging member 9 of the hinge is of sub-

stantially U shape with its sides 10 parallel or diverged. The intermediate part of the crossed portion of the wire is bent back between the sides 10, as at 11, to form a stiffening member corresponding to the member 3 and terminating in an attaching-eye 12. Those portions of the wire at opposite sides of the stiffening element 11 are coiled to form bearing-eyes 13 around the respective 60 pintle portions 14 of the member 1, with sufficient looseness to permit of the member 9 swinging around said pintle portions in the manner of an ordinary hinge. The coils of each bearing-eye 13 should be spaced sufficiently to prevent choking thereof by the accumulation of rust thereon.

Another form of the invention has been shown in Figs. 3 to 5, inclusive, wherein the members 24 and 25 are of substantially U shape and provided intermediate of their 65 ends with flattened portions 26, pierced by openings 27 for the reception of fastenings 28, the latter being shown in Fig. 1, for securing the members to a door 29 and a door-frame 30. Each end of the hinge member 24 has its extremity bent laterally outward, as at 31, to form a pintle lying in substantially the same plane with the sides of the hinge member, with the outer end of the pintle portion bent at substantially right angles thereto to form an attaching-arm 32, the end of 70 which is flattened, as at 33, and pierced by an opening. This arm is designed to lie against the inner or hinged edge of the door, 75 as shown in Fig. 4, and is secured thereto by means of a fastening 34, wherefore the hinge embraces one side and the adjacent edge of the door and is securely fastened thereto. The edge of the door is of course notched or 80 cut away, as at 35, to accommodate the attaching-arm. Each end portion of the other hinge member is bent or coiled around the adjacent pintle 31, as at 36, to form a bearing-eye 85 rotatably embracing the pintle, the extremity of the side being bent into an attaching-arm 37 in substantial parallelism with the arm 32 and terminating in a flattened portion 38, pierced by an opening for the reception of a fastening 39 to secure the 90 arm to the edge of the door-frame, said frame of course being notched or cut away, as at 40, to accommodate the attaching-arm. In this last-described form of the invention each hinge member is secured to the face and the 95 adjacent edge of the part to which it is attached, whereby each hinge member is secured to the 100 adjacent edge of the part to which it is attached, whereby each hinge member is secured to the 105 adjacent edge of the part to which it is attached, whereby each hinge member is secured to the 110 adjacent edge of the part to which it is attached, whereby each hinge member is secured to the

cured in a rigid and durable manner and strain is distributed between the fastenings, so as to prevent the quick working loose of the hinge.

5 Having fully described the invention, what is claimed is—

A wire hinge comprising a pair of yoke-shaped members, the bow of each member being provided with an eye for the reception 10 of a fastening, the ends of one of the yokes being bent laterally outward to form pintle elements lying in the plane of the member and the extremities of the pintle elements being bent at substantially right angles thereto 15 and formed into attaching elements, the side

of the other hinge member being loosely coiled around the pintle elements with their extremities formed into attaching elements disposed in substantial parallelism with the attaching elements of the first-mentioned hinge 20 member.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in the presence of two witnesses.

CURTIS D. REECE.

FRED. T. ^{his} X AUSTIN.
mark

Witnesses:

M. A. WARE,
A. S. GREEN.