

(No Model.)

H. J. RUX.
HINGE.

No. 580,426.

Patented Apr. 13, 1897.

Fig. 1.

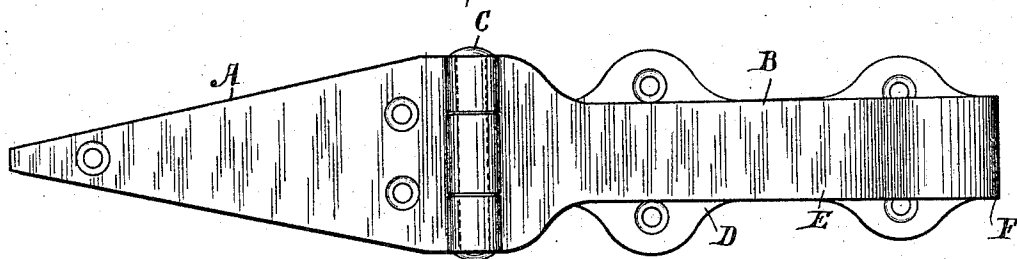


Fig. 2.

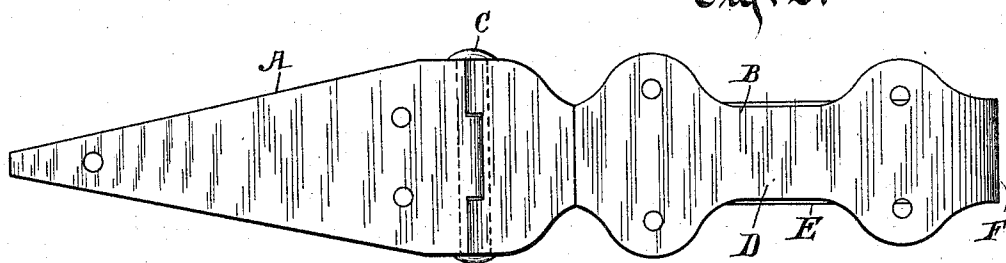


Fig. 3.

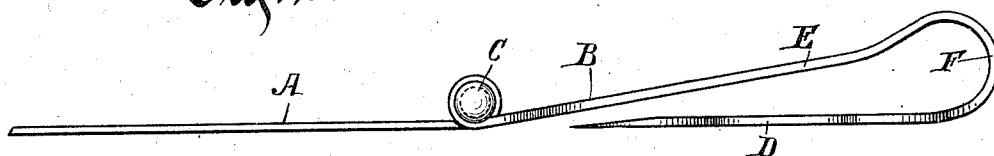
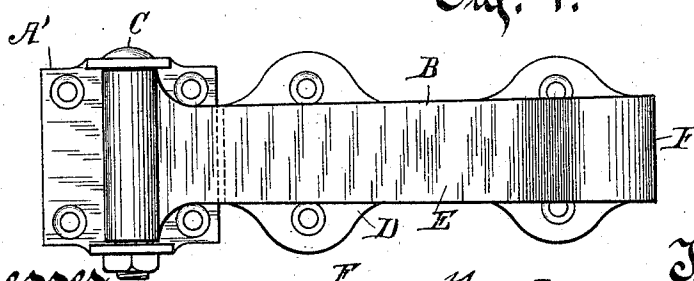


Fig. 4.



Witnesses.

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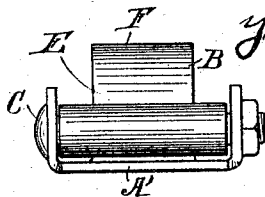


Fig. 5

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UNITED STATES PATENT OFFICE.

HERMAN J. RUX, OF RIB FALLS, WISCONSIN.

HINGE.

SPECIFICATION forming part of Letters Patent No. 580,426, dated April 13, 1897.

Application filed December 26, 1896. Serial No. 616,961. (No model.)

To all whom it may concern:

Be it known that I, HERMAN J. RUX, of Rib Falls, in the county of Marathon and State of Wisconsin, have invented a new and useful
5 Improvement in Hinges, of which the following is a description, reference being had to the accompanying drawings, which are a part of this specification.

My invention relates to improvements in
10 hinges of that class that are intended for use with heavy and frequently wide doors or gates. Such hinges are usually secured to the door or gate by means of screws, and because of the weight of the door, and frequently
15 also because such hinges are applied to doors on farm-buildings or on gates in fences by persons not having the means or the ability to properly fit the door or gate in its place, it frequently and in fact altogether too frequently
20 occurs that the screws, and especially the screws nearest the joint of the hinge, are pulled out by the strain or shock of the closing of the door or gate, there being no provision for any permissible play of the mem-
25 bers or parts.

The object of this invention is to provide a construction of the hinge that will permit of a certain amount of yielding or play between the door or gate and the support to
30 which it is attached by the hinge other than that of the hinge-joint, thereby overcoming the direct and undesirable strain on the screws that without such provision results in loosening or withdrawing them from their
35 seats.

My invention consists of the hinge, its parts and combination of parts, as hereinafter described and claimed, or their equivalents.

In the drawings, Figure 1 is a front view of
40 my improved hinge. Fig. 2 is a rear view of the same hinge. Fig. 3 is an edge view of this improved hinge. Fig. 4 is a modified form of the improved hinge. Fig. 5 is an end view of the hinge shown in Fig. 4 as seen
45 from the left of Fig. 4.

The member A of the hinge, as shown in Figs. 1, 2, and 3, is a metal strap having screw-holes, and is of a form and construction substantially like those in common use.

50 The member B of the hinge embodies the special feature of my improvement and is connected to the member A by a pintle or pin

C, which passes through interlocking sockets in the respective members of the hinge in substantially the manner in common use. 55

The member B consists of an elongated elastic metal strap, the free or non-connected end D of which is located behind and opposite and at a little distance from an extended or neck portion E of the member B, the mem- 60 ber B being integral and recurved at F.

The form and construction of the member B are such that the rear surface of the attachable portion D of the strap or member B is adapted to be in the plane of the rear surface 65 of the member A for securing them respectively to the support and door or gate to which the hinge is to be attached.

The intermediate extended or neck portion E of the member B of the hinge, which in mechanical construction is between the attachable part D and the pintle C, is so disposed as normally to be in front of the part D and at a little distance therefrom, so as to be free to yield and vibrate limitedly under 75 the shock of the closing of the door or gate to which the hinge is attached, and thus to lessen or obviate the shock that would otherwise come on the hinge and its fastenings on the forcible closing of the door or gate. 80

The part D of the member B is provided with screw-holes for taking screws therein for securing this member of the hinge to the door or gate, as it is advisable to secure this member B to the door or gate rather than the 85 member A, which is more properly secured to the fixed support.

The hinge shown in Figs. 1, 2, and 3 is of a form and construction which especially fit it for use with a door or gate where the hinge 90 is to be secured to a support having a flat surface in the plane of the surface of the door or gate, to which flat surface in the same plane the hinge is to be affixed.

I do not wish to limit my invention to the 95 precise form of construction I have shown in the drawings, as my improved hinge may be changed in form to adapt it for use in different positions or with reference to securing a door or gate to a support other than one hav- 100 ing a plane surface in the plane of the door, and a modified form of the device is shown in Figs. 4 and 5, in which the elastic or spring member B is connected by the pin or pintle

C with a clip member A', which form of clip member is adapted to be secured to the inner surface of a gate post or support having a face at a right angle to the face of the door to which the member B is secured. Other forms of the strap or straps may be adopted, but the elastic or spring-like character of one of the members of the hinge should be retained.

10 What I claim as my invention is—

1. A hinge comprising two members secured together by a pin or pintle, one member of which embodies an extended elastic or yielding neck interposed between the pintle and the part of the member adapted to be secured to a door or support, the neck being so disposed as to be yielding and free to vibrate.

2. A hinge comprising two members connected together by a pintle, one member being adapted to be secured rigidly to its object, and the other member consisting of an extended strap bent or recurved opposite itself, the extremity or recurved portion being provided with means for securing it to its supported or supporting object, the intermediate neck portion being elastic and free to yield or vibrate.

In testimony whereof I affix my signature in presence of two witnesses.

HERMAN J. RUX.

Witnesses:

ARTHUR L. MORSELL,
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