

J. B. LORANGER.
HINGE.
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1,054,221.

Patented Feb. 25, 1913.

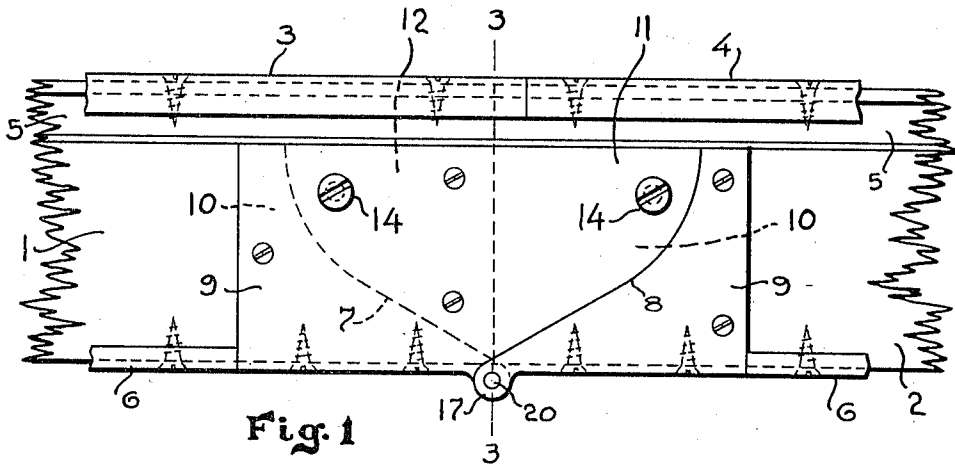


Fig. 1

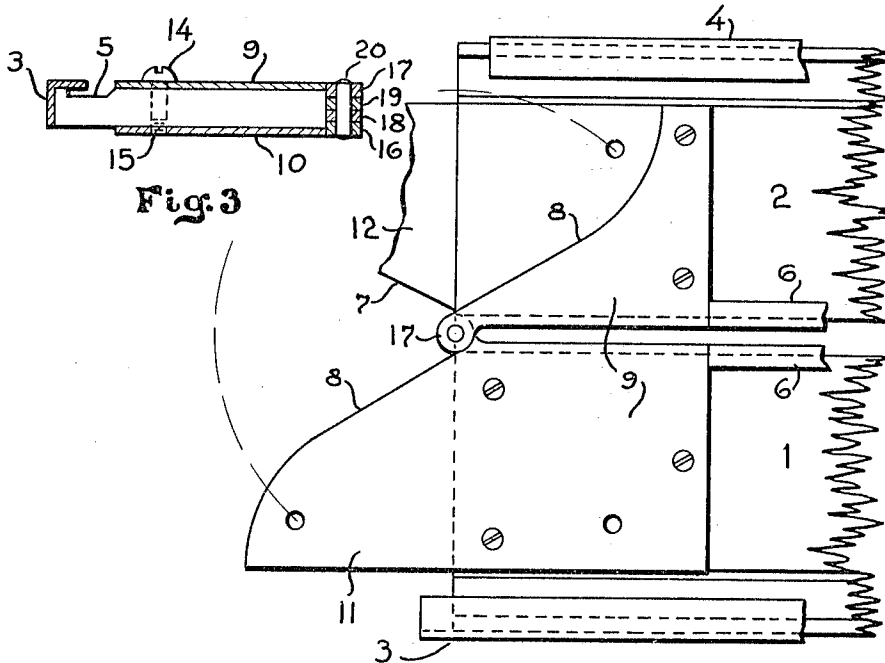


Fig. 2

WITNESSES
Robert X. Van Buren
Virginia C. Spratt.

INVENTOR
John B. Loranger
BY
Raymond A. Parker
ATTORNEY.

UNITED STATES PATENT OFFICE.

JOHN B. LORANGER, OF DETROIT, MICHIGAN.

HINGE.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN B. LORANGER, a citizen of the United States, residing at Detroit, county of Wayne, State of Michigan, have invented a certain new and useful Improvement in Hinges, and declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to hinges for straight edges used by paper hangers and has for its object a folding straight edge that is provided with a particular form of hinge that is adapted to secure the straight edge portions together so as to insure a rigidity for the instrument when it is set to be used. Since the adoption of pay-as-you-enter cars in the large cities, it has been in many cases impossible to carry these instruments upon street cars because of the rules adopted by the traction companies. The result has been that paper hangers have been obliged to supply their own conveyances for conveying their tools from one place to another in the city. It is to obviate this necessity and provide a hinge for a straight edge so that the straight edge may be folded into a convenient form for carrying that this invention is addressed.

In the drawings:—Figure 1, is an elevation of a portion of the straight edge where its two portions are hinged together. Fig. 2, shows the two portions folded together. Fig. 3, is a section on the line 3—3 of Fig. 1.

1 and 2 are the wooden strips of the straight edge to which are secured the facing portions 3 and 4, respectively. The wooden strips are grooved as at 5 and the facings 3 and 4 extend slightly over this groove to form a track with the groove upon which travels the cutting tool, (not shown). On one edge of the wooden portions 1 and 2, opposite the facings 3 and 4 suitable metallic plates 6 are screwed so as to protect the opposite edge. The facing 4 does not reach clear to the end of the wooden strip 2, while the facing 3 reaches out beyond the end of the strip 1 and engages over the portion of strip 2 that is not covered by facing 4.

Referring to Fig. 1, the particular form of hinge that I employ is shown. It will be

seen by the dotted line 7 and full line 8 that the hinge breaks joint, that is, the hinge member is in the form of a pair of plates 9 and 10 on opposite sides of the straight edge, the plate 9 divides at the line 8 resulting in a projecting portion 11 when the edge is folded together and the plate 10 divides on the line 7 resulting in a projecting portion 12 when the edge is folded together. These projecting portions 12 and 11 fit the remaining portions of the plates and register with perforations in the wooden strips so that when the straight edge is opened in distended position, the bolts 14 which are screw-threaded at their ends may be passed through the registering holes of the plates and the strips and the threaded ends of the bolts take hold of the threads 15 of the plate 10. This serves to hold the two sections of the edge firmly together and the different parts of the two sections are united in a way to break joints and to secure maximum rigidity. The hinge connection is afforded by a portion of the plates 9 and 10 acting as knuckles 16 and 17 and other portions 18 and 19 of the plates 9 and 10 acting as knuckles engaging on the inside of the knuckles 16 and 17 about the knuckle pin 20.

What I claim is:—

1. A hinge, having in combination, a pin, knuckles engaging thereabout, two side plates attached to the knuckles and extending in planes substantially perpendicular to the axis of the knuckles, each side plate being divided and the divisions attached to separate knuckles, the division lines of the two separate side plates being arranged obliquely at non-registering locations on the two sides, substantially as described.

2. A hinge, having in combination, a pin, knuckles engaging thereabout, side plates attached to the knuckles and extending in pairs in planes perpendicular to the axis of the knuckles, each side plate being divided and the divisions attached to separate knuckles, the said side plates being split obliquely in opposite directions, substantially as described.

3. A hinge, having in combination, a pin, knuckles engaging thereabout, two side plates attached to the knuckles and extending in planes perpendicular to the axis of the knuckles, each side plate being divided and the divisions attached to separate

knuckles, the said division lines of the two side plates being arranged to form a projecting portion and a cut-away portion, the projecting portion of one side plate being
5 arranged opposite the cut-away portion of the other side plate, and means for fastening the projecting portions of the side plates to the projecting portion of the other side

plate when the hinge is opened out, substantially as described.

In testimony whereof, I sign this specification in the presence of two witnesses.

JOHN B. LORANGER.

Witnesses:

STUART C. BARNES,
VIRGINIA C. SPRATT.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."