

(No Model.)

G. BECKER.

HINGE JOINT FOR JEWELRY.

No. 354,458.

Patented Dec. 14, 1886.

Fig. A.

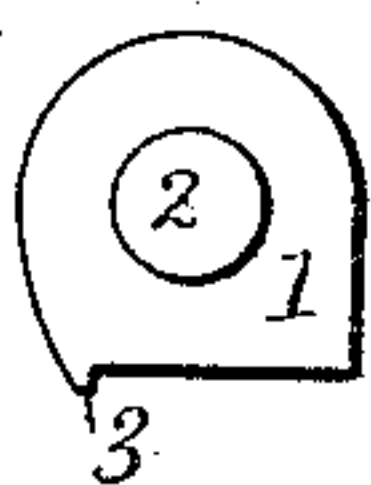


Fig. B.

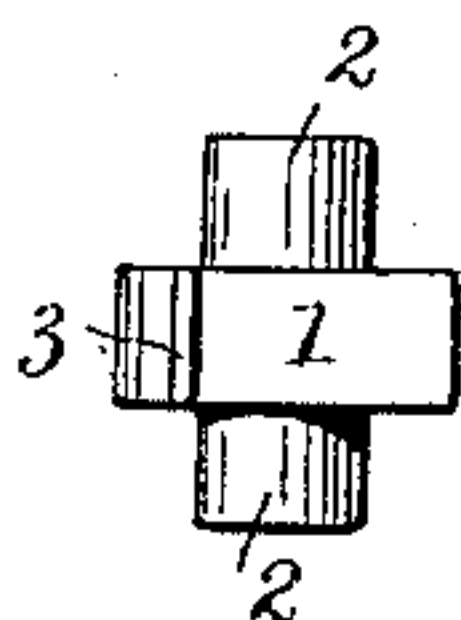


Fig. C.

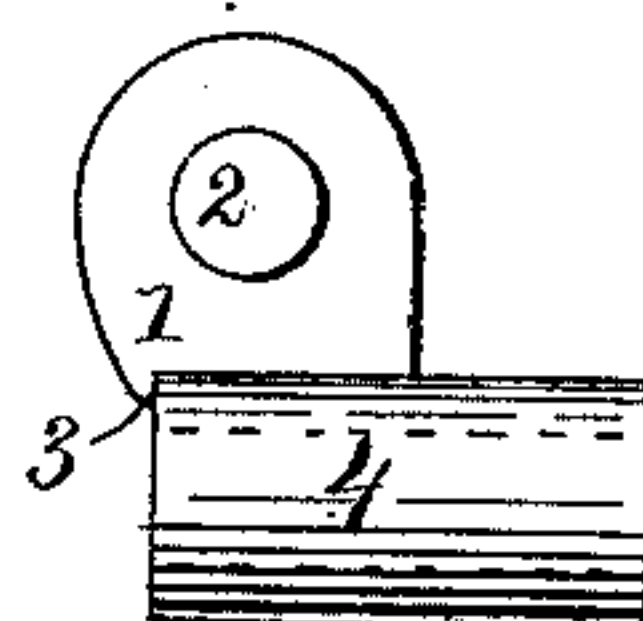


Fig. D.

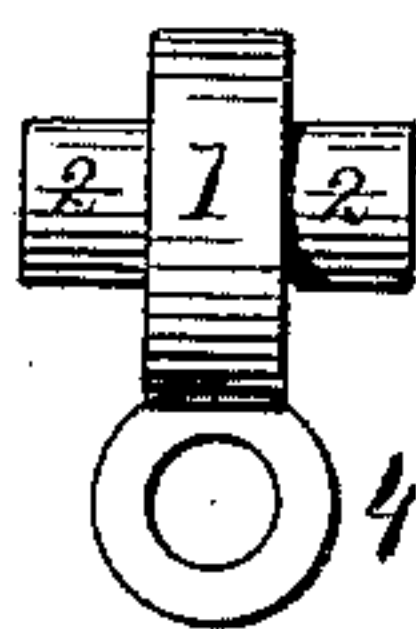


Fig. E.

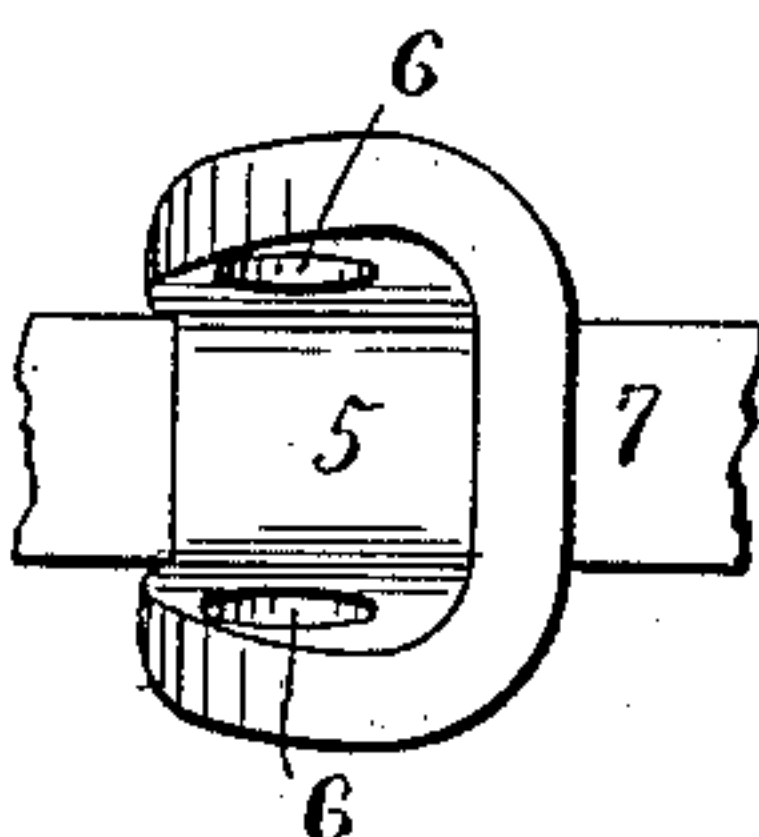


Fig. F.

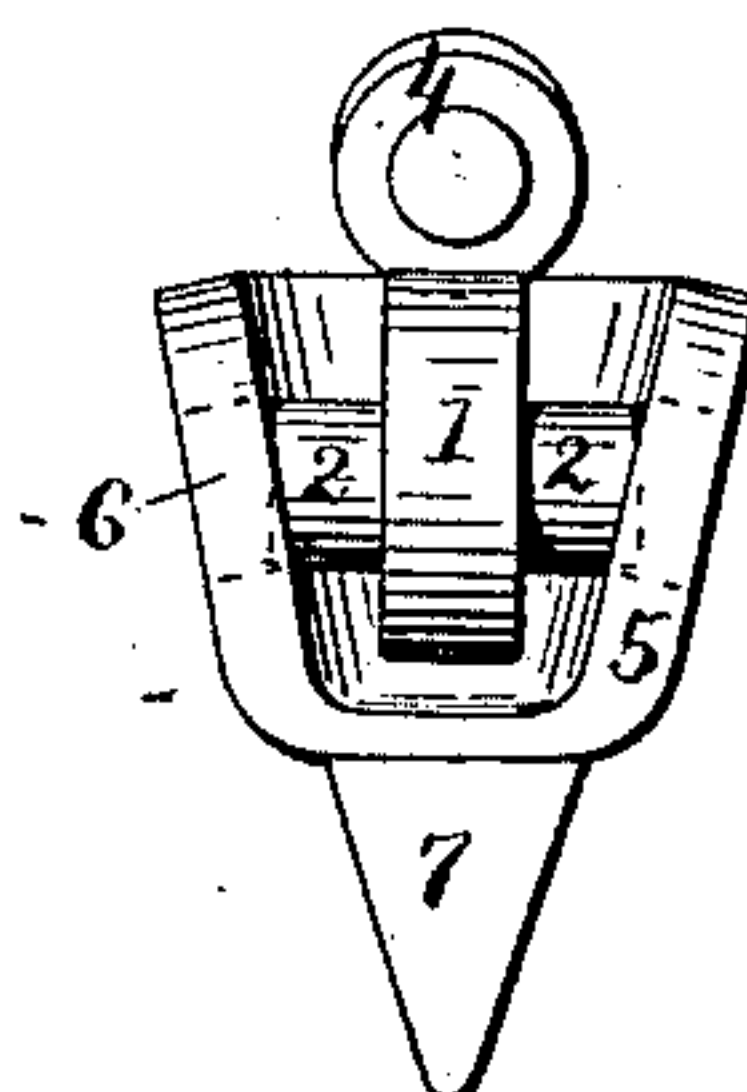


Fig. G.

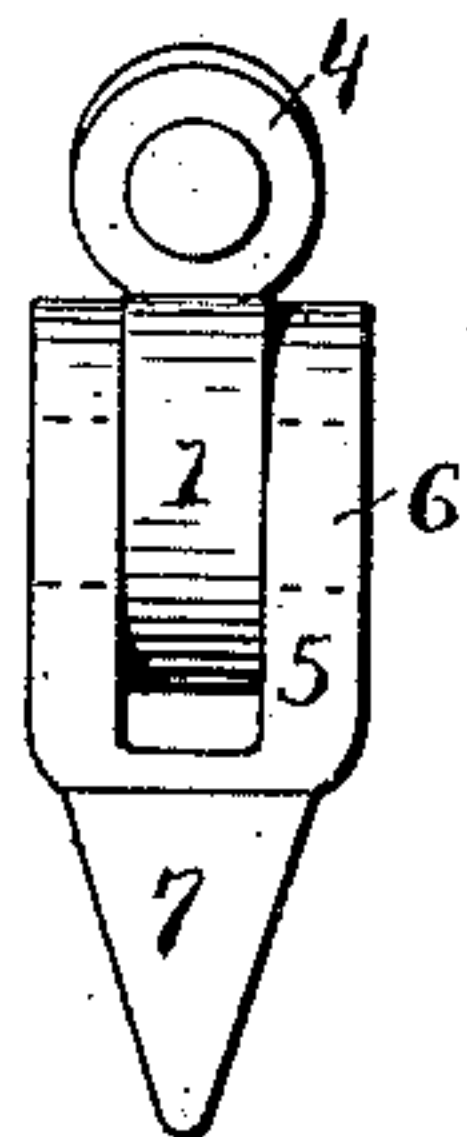


Fig. H.

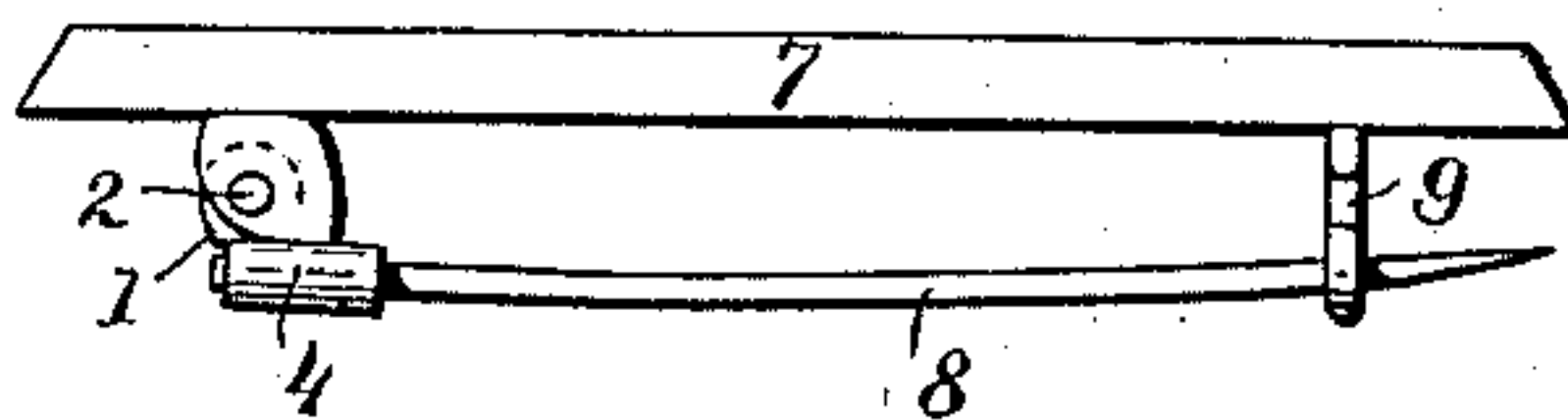


Fig. I.

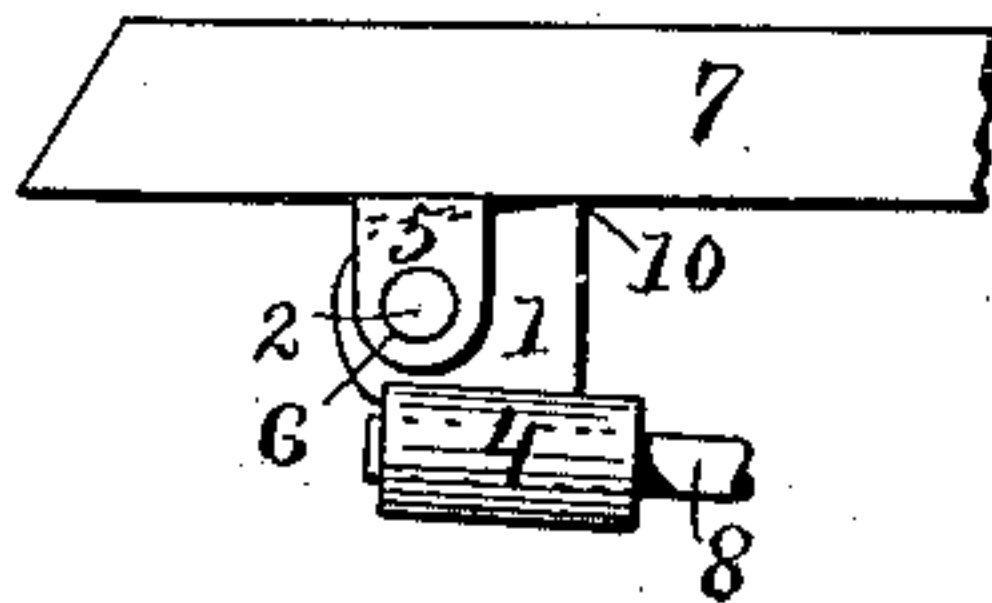


Fig. J.

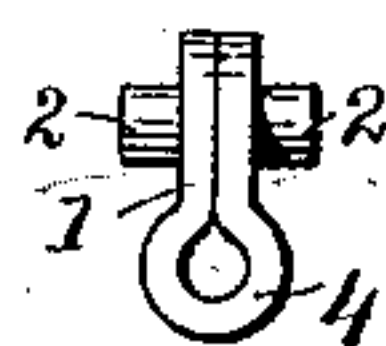
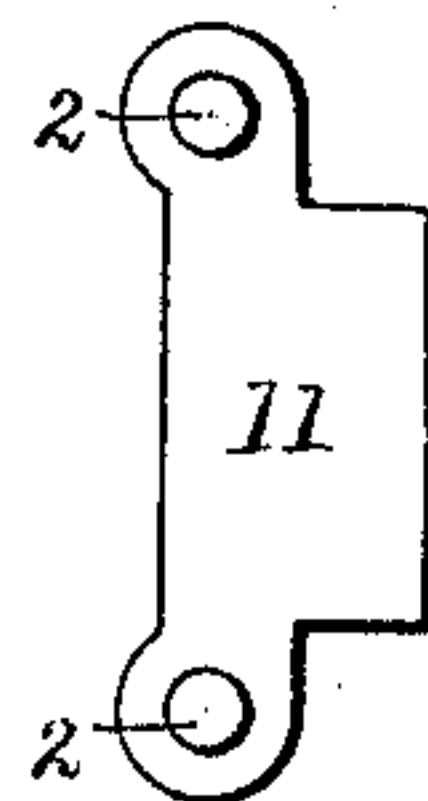


Fig. K.



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UNITED STATES PATENT OFFICE.

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BECKER & CO., OF SAME PLACE.

HINGE-JOINT FOR JEWELRY.

SPECIFICATION forming part of Letters Patent No. 354,458, dated December 14, 1886.

Application filed February 2, 1886. Serial No. 190,593. (No model.)

To all whom it may concern:

Be it known that I, GEORGE BECKER, of the city and county of Providence, and State of Rhode Island, have invented certain new and
5 useful Improvements in Hinge-Joints for Jewelry, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

10 My invention relates to the class of hinge-joints which have the hinge-leaf provided with pintles to swing upon.

The object of my invention is to provide a joint especially adapted in the construction of
15 hinge joints in jewelry, and which is simple, strong, and very durable.

To the above purposes my invention consists in a hinge-joint having a leaf which is provided with oppositely-disposed fixed pintles,
20 which vibrate in slots formed in the bearing or cradle piece, and of the peculiar stop and sleeve mounted on the leaf, and of other sub-combinations, all hereinafter fully described and claimed.

25 In the accompanying drawings, illustrating my invention, Figure A represents a broad side view of my peculiar leaf with its pintles. Fig. B represents an under side view of Fig. A. Fig. C represents a side view of my leaf mounted upon a sleeve. Fig. D represents an end view of Fig. C. Fig. E represents a top view of my cradle
30 or bearing before being finally swaged and mounted upon a bar lying below and shown in portion. Fig. F represents an end view of parts in Fig. E, with the parts in Fig. D inverted and set down in the former. Fig. G represents Fig. F after final swaging of the sides of the cradle or bearing. Fig. H represents the parts in Fig. G reduced and joined up with an ordinary breast-
35 pin. Fig. I represents a modified form of my joint attached to a breast-pin, shown in part. Fig. J represents a further modification of my peculiar leaf and pintles. Fig. K represents a blank from which the leaf in Fig. J is swaged.

45 In the said drawings like numbers of reference designate like parts throughout.

Referring to the drawings, the leaf 1 is a flat body, approximately an inverted-U shape, and has upon its two broad sides the oppositely-
50 fixed pintles 2, which are short cylindrical

bodies. At the lower left-hand corner, Fig. A, the leaf 1 has a small stop, 3, and the sleeve 4 is mounted upon the lower edge, with one end abutting against the stop 3, which is designed to give a ready and accurate adjustment to
55 said sleeve when being set in position. The several parts 1, 2, and 3 are integral, being struck up from flat blanks of material.

The cradle or bearing 5 is scoop-shaped, with the tubular slots 6 in its flat sides opposite and in alignment. The leaf 1 is set down in the cradle 5, and the pintles 2 take into slots 6. Then the cradle 5 has its sides swaged into parallel position, as shown in Fig. G. The pin 8 is placed fast in sleeve 4, and the
60 cradle 5 is fixed down upon the bar 7 by one of its closed faces, so that the other closed face looks in the direction of the body of the pin 8, which bears upon the edge of the cradle, in order to gain a certain resiliency when the pin
65 8 is fastened or unfastened by the safety-hook 9.

In the modification of Fig. I the cradle 5 is in the form of a flat strip bent somewhat U-shaped, with its bottom or cross piece secured upon the
70 bar 7, and the free ends slotted at 6 to receive the pintles 2 of the leaf 1, which is here somewhat altered in shape, having the acute corner 10 resting upon bar 7, to give the required resiliency to the pin 8 in its operations.

In Figs. J and K, I show a modified form of
80 my peculiar leaf 1. The blank 11 is struck up, as shown, from flat stock, with the pintles 2, and is swaged into the form of Fig. J, where the one piece forms the leaf 1, with its pintles 2 and sleeve 4. It is obvious that the leaf 1 turns freely upon its pintles 2 in their bearings in slots 6 of the cradle 5, and can only be displaced from operative position by the cradle 5 becoming badly sprained in its slotted sides, whereby the pintles 2 would become disengaged from their slots 6. Thus my hinge-joint forms a very durable and simple joint, and works with efficiency.

There may be various modifications made in the parts of my device without a substan-
95 tial departure from the spirit of my invention, as herein described and claimed. For instance, the leaf 1 and the pintles 2 may be made separately from the leaf and in the form of a single bar, and the bar fitted tightly into a perfora-
100

tion in the leaf; or the leaf may be made flat and imperforate and have the pintles soldered thereon, as desired.

Having thus described my invention, I claim
5 as new and desire to secure by Letters Patent—

1. The combination, with a cradle or bearing, of a leaf provided with lateral pintles and having a stop-piece upon the attaching-face thereof, substantially as herein described.
- 10 2. The combination, with a sheet-metal cradle or bearing having lateral slots therein, of a leaf having lateral pintles and the integral stop-piece, substantially as described.
- 15 3. The combination, with a cradle or bearing provided with lateral slots, of a leaf provided with lateral pintles and a stop-piece and a sleeve mounted upon said leaf and abutting against said stop, substantially as described.

4. The combination, with the cradle or bearing having the lateral slots therein, of the leaf 20 provided with the pintles 2 and having the stop 3 mounted thereon, substantially as described.

5. The combination, with the cradle or bearing 5, provided with the slots 6, of the leaf 1, 25 having the pintles 2 and the stop 3, and provided with the sleeve 4, substantially as described.

In witness whereof I have hereunto set my hand.

GEORGE BECKER.

Witnesses:

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M. F. BLIGH.