

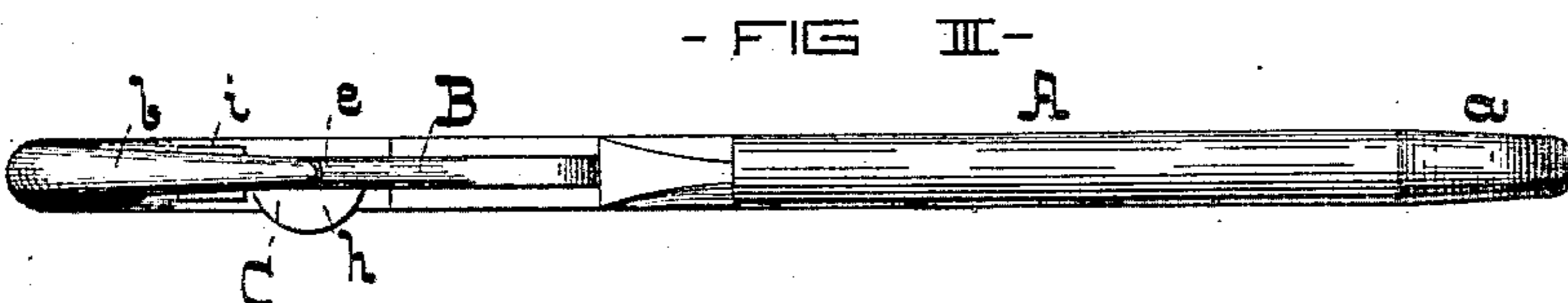
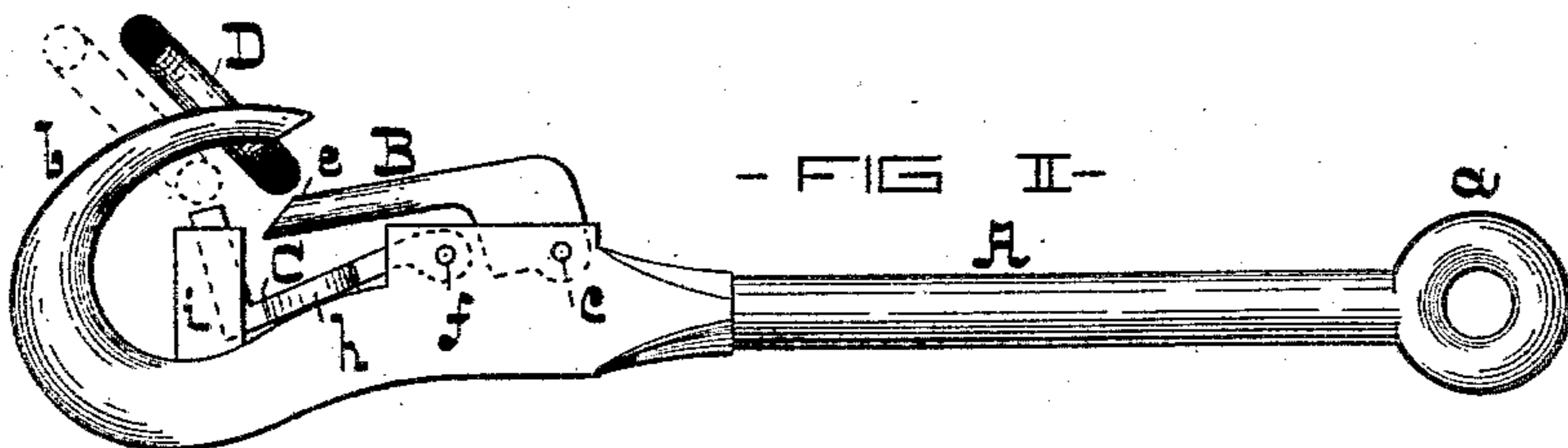
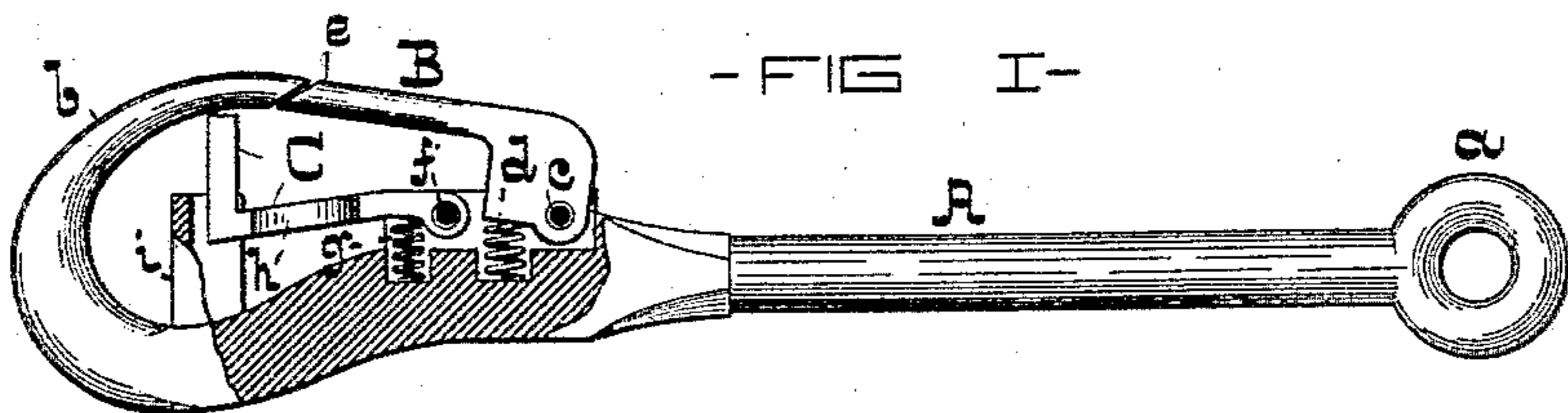
(No Model.)

T. H. HUMPHREYS.

SNAP HOOK.

No. 380,286.

Patented Mar. 27, 1888.



WITNESSES -

Dan'l Fisher  
Frank Hodges

INVENTOR -

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# UNITED STATES PATENT OFFICE.

THOMAS H. HUMPHREYS, OF BALTIMORE, MARYLAND, ASSIGNOR OF ONE-HALF TO CHARLES T. HOLLOWAY, OF SAME PLACE.

## SNAP-HOOK.

SPECIFICATION forming part of Letters Patent No. 380,286, dated March 27, 1888.

Application filed November 11, 1887. Serial No. 254,899. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS H. HUMPHREYS, of the city of Baltimore, State of Maryland, have invented certain Improvements in Snap-Hooks, of which the following is a specification.

This invention consists in providing an ordinary snap-hook, such as is used on breast-chains and traces, with a safety device to prevent the ring to which the hook is attached from passing to the extremity of the fixed jaw of the hook and in contact with the spring-jaw of the same, the object being to provide against the detachment of the hook from the ring in case the spring-jaw is accidentally depressed or broken.

In the further description of the said invention which follows reference is made to the accompanying drawings, forming a part hereof, and in which—

Figure I is a partly-sectional side view of the improved snap-hook. Fig. II is an exterior side view of the hook and a ring, illustrating the manner of attaching the two devices together. Fig. III is an edge view of Fig. I.

Similar letters of reference indicate similar parts in all the views.

A is the stem of the hook, terminating at one end in an eye, *a*, and at the other in the fixed jaw *b*.

B is the movable jaw, hinged at *c* to the stem A, and provided with the spring *d*, to retain its free end *e* yieldingly in contact with the extremity of the fixed jaw.

C is the safety device, which consists of a

bent arm pivoted at *f* to the stem A, the outer end of which is held yieldingly in contact with the fixed jaw *b* at a point near to its end by means of the spring *g*. It will be seen that the bent end of the arm C, when extended, is practically at a right angle with reference to a line parallel with the stem A. Consequently it has no tendency to move in and admit of the admission of the ring to the hook when the said ring is pressed against it.

As the safety-arm C is not self-acting, I provide it with a thumb-piece, *h*, which projects laterally beyond the stem A, so as to be accessible, as shown particularly in Fig. III. The free end of the arm C is sustained laterally by means of a projection, *i*, which is slotted for its reception. (See particularly Figs. I and II.)

D is a ring shown in section in Fig. II, in which it is represented in both full and dotted lines, to illustrate different positions of the various parts in their attachment and detachment.

I claim as my invention—

1. In combination with the stem A and the fixed and movable jaws *b* and B, the spring-arm C, substantially as specified.

2. In combination with stem A and the fixed and movable jaws *b* and B, the spring-arm C and the projection *i*, substantially as specified.

THOMAS H. HUMPHREYS.

Witnesses:

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