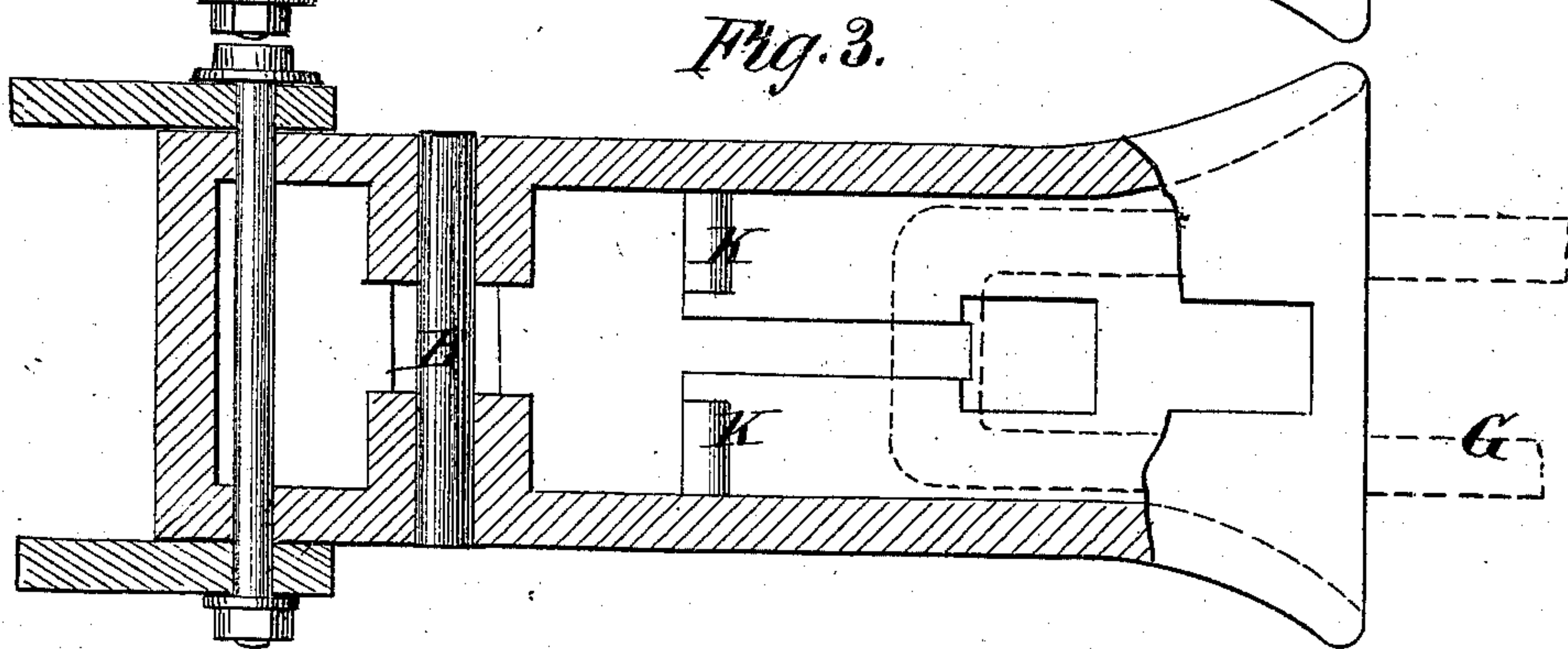
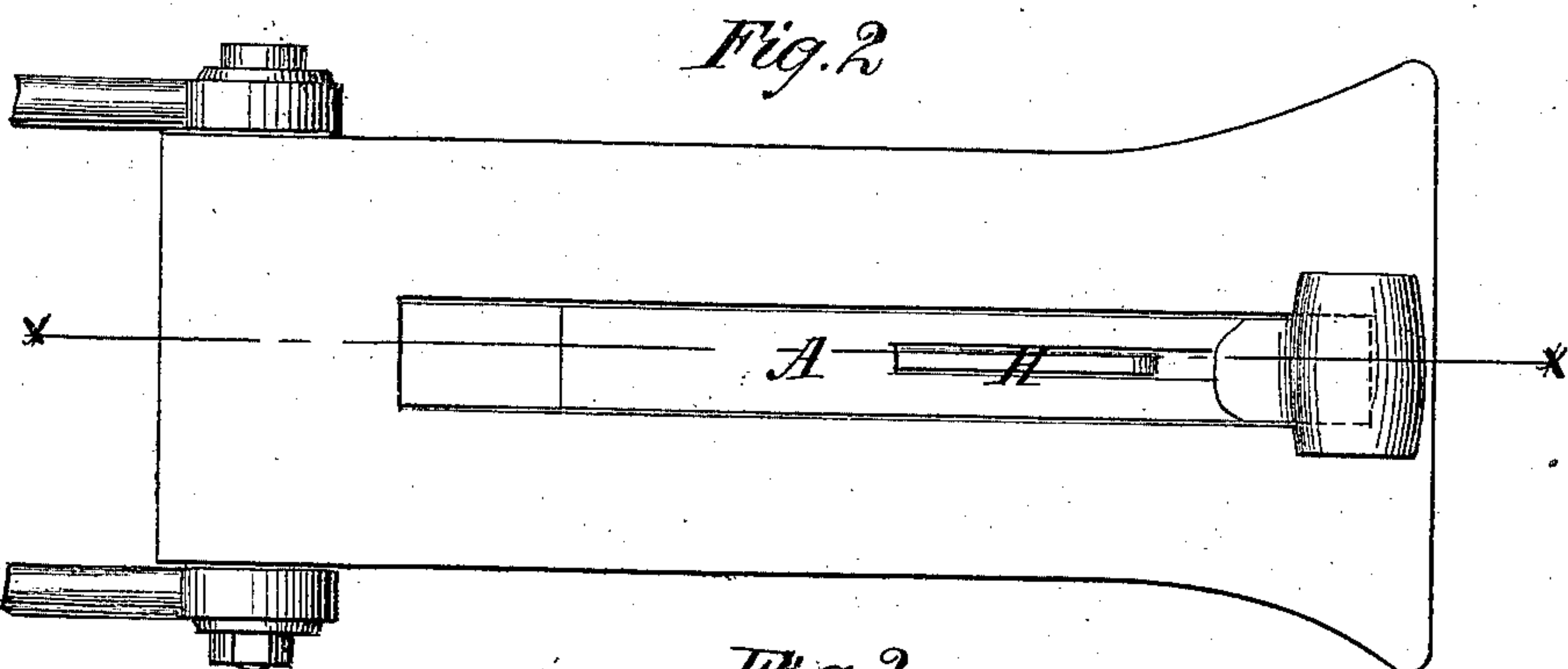
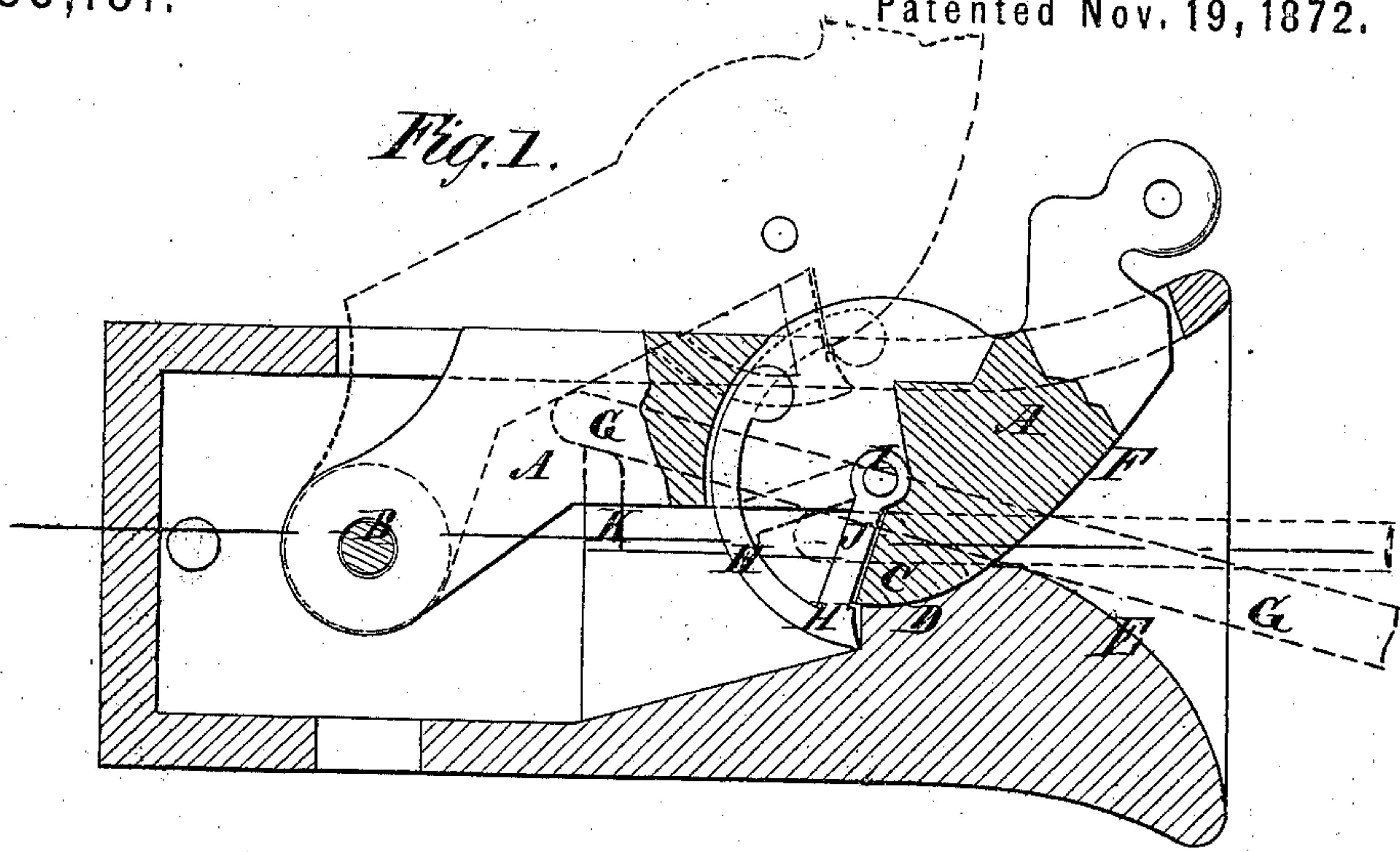


D. WALTER.
Improvement in Car-Couplings.
No. 133,181. Patented Nov. 19, 1872.



Witnesses:
John Becker
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UNITED STATES PATENT OFFICE.

DAVID WALTER, OF EVANSPORT, OHIO.

IMPROVEMENT IN CAR-COUPPLINGS.

Specification forming part of Letters Patent No. **133,181**, dated November 19, 1872.

To all whom it may concern:

Be it known that I, DAVID WALTER, of Evansport, in the county of Defiance and State of Ohio, have invented a new and Improved Car-Coupling, of which the following is a specification:

My invention consists in a gravitating self-coupling hook, which is raised by the link when it enters the buffer, and engages said link automatically, which said hook is provided with a rolling or oscillating guard, which falls between the link and the point of the hook whenever the end of the link is thrown upward more than is usual in the ordinary working conditions—as, for instance, when a car jumps the track and effects the uncoupling, so that the cars remaining on the track will not be forced off by one already off.

In the accompanying drawing, Figure 1 is a longitudinal sectional elevation of my improved car-coupling taken on the line *x x* of Fig. 1; Fig. 2 is a plan view; and Fig. 3 is a horizontal section.

Similar letters of reference indicate corresponding parts.

A is the coupling-hook, which is pivoted at B, at some distance rearward of the front end of the buffer, and ranges forward of said pivot in a long vertical slot through the upper wall, so that the nose or point C of the hook falls into a cavity, D, at the top of the ascending incline E of the bottom of the bell-mouth of the buffer; and the front and lower wall F of the hook curves upward from its junction with said wall E, when the hook is resting

in said cavity, so that said hook will be raised self-actingly by the link G, when thrust into the notch formed by the said walls, and the link will pass under and beyond the point C, so that the latter will fall into the link and secure it. H is a segmental guard mounted on arm J, which is pivoted at I in a vertical slot in the hook, so that when not held up in the slot by the link, said arm will fall down in front of the nose C, as shown in Fig. 1; but the link will never pass far enough backward for the said guard to fall with it, owing to the stop-pieces K, unless the inner end be thrown up, as indicated in Fig. 1, more than is usual in the ordinary operation of the parts, as, by the falling of the other end, in consequence of the car to which it is connected jumping the track, where said link, passing over the stops K, and a little further back, will allow the guard to fall, and said guard will roll forward on the link as it moves forward again, and lift the hook up so as to let the link escape, thus self-actingly uncoupling the cars when one runs or jumps off, and saving the pulling of the others after it.

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

The combination of the hook A, guard H, stops I, and buffer, all substantially in the manner described.

DAVID WALTER.

Witnesses:

J. C. WALL,
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