(No Model.)

W. R. FUNK.

AUTOMATIC UNCOUPLER.

No. 286,920. Patented Oct. 16, 1883.

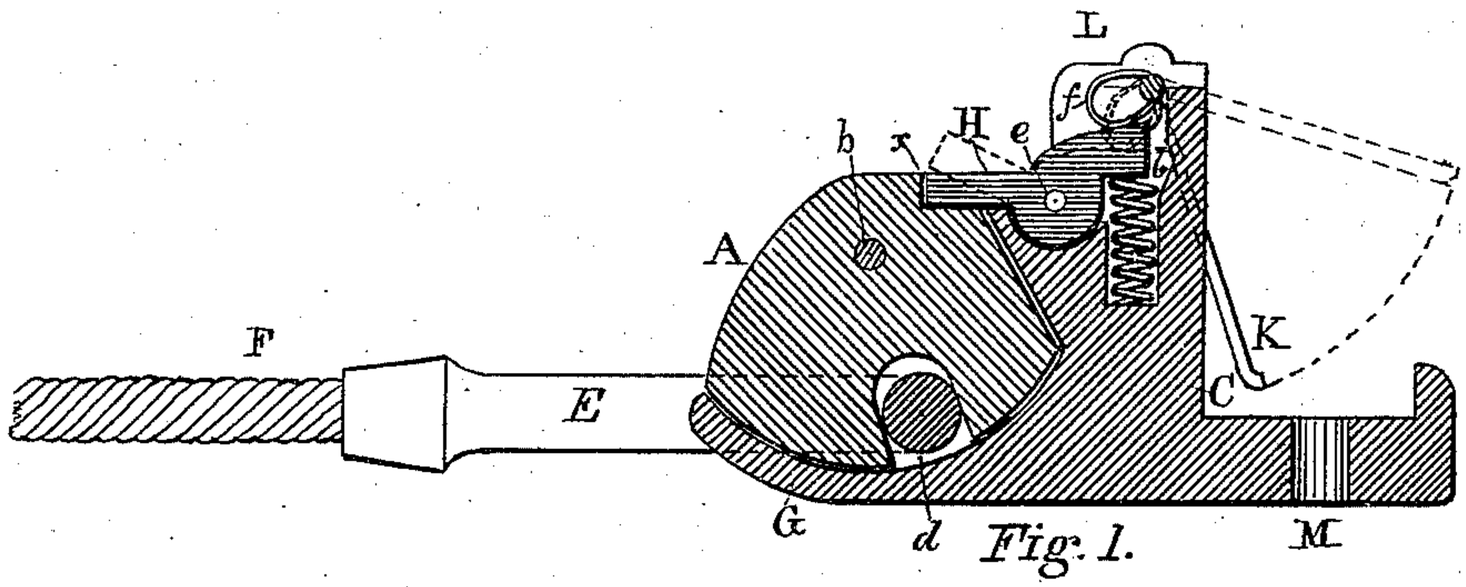

Fig. 1.

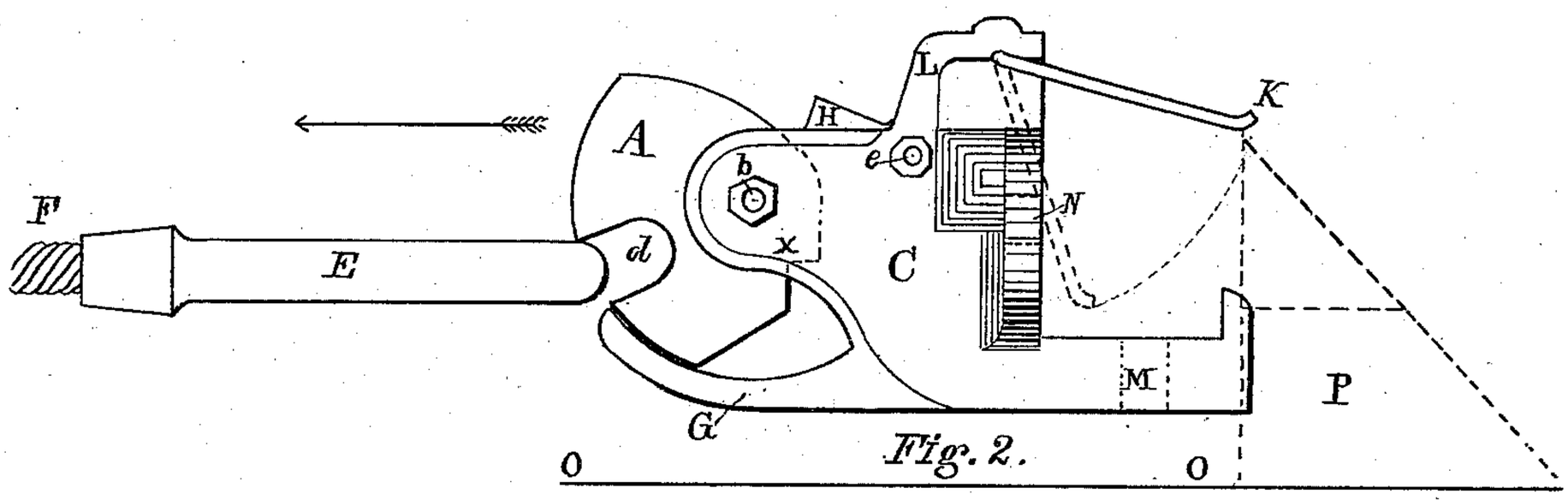

Fig. 2.

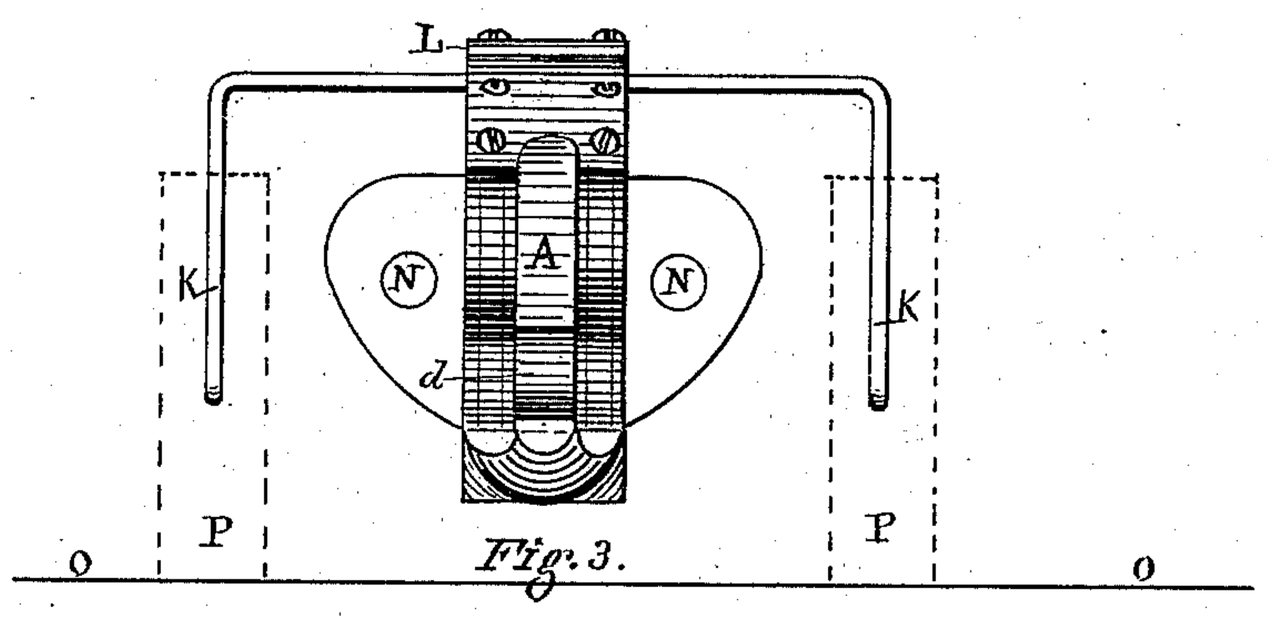

Fig. 3.

Witnesses
W. C. Hill
Sol. Stein

Inventor
Wilson R. Funk
by Willet Boulter
attorney

UNITED STATES PATENT OFFICE.

WILSON ROBERT FUNK, OF CLEVES, OHIO.

AUTOMATIC UNCOUPLER.

SPECIFICATION forming part of Letters Patent No. 286,920, dated October 16, 1883.

Application filed August 14, 1883. (No model.)

To all whom it may concern:

Be it known that I, WILSON R. FUNK, a citizen of the United States, residing at Cleves, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Automatic Uncouplers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

The object of my invention is to provide an automatic uncoupler for coal or other dump-cars, attached to the ropes or cables of elevators or incline planes.

In the accompanying drawings, Figure 1 represents a side view of the automatic uncoupler, exposing the interior, with the lock or trigger down, and coupled to the cable-link of a coal-elevator. Fig. 2 is a side view of the same exterior view, with the lock or trigger raised and the cable-link uncoupled. Fig. 3 is a front view of Fig. 2 without the link and cable.

Similar letters of reference represent corresponding parts.

In the drawings, A is an iron or metal detent, which swings upon a rivet, *b*, inside of the body C. At the lower part of the detent is a mouth, *d*, through which passes a link, E, attached to a cable, F. The lower lip, G, holds the link in the mouth *d*.

H is a lock or trigger swung on a pivot, *e*, within the body C, resting upon a spiral spring, J, which holds the detent A firmly in its place by means of the notch X. The lock or trigger H is operated by a two-handled lever, K K, the cam *f* of which rests upon the lock or trigger just above the spring J.

L is the top or cap, fastened on with screws to admit of its removal for the repair of lock, spring, &c.

This automatic uncoupler is attached to the lower portion and front end of a coal or other dump-car by means of bolts through the openings in the plates at M and N N. The cable F, which is attached to a stationary steam-engine or other hoisting-power, draws the dump-car up the elevator or incline plane to the level at the top. To the level floor O of the elevator are attached two diagonal blocks, P P, upon which the handles of the lever K K strike and are elevated in passing over. This raising of the lever K K upon the blocks P P presses down the spiral spring J, raises the lock or trigger H out of the notch X, permits the detent A to turn on its rivet *b*, and allows the link and cable E of the elevator to be pulled out of the mouth *d* by the hoisting-power alone, thus uncoupling the dump-car from the hoisting-power without the employment of a hand in a dangerous position for that purpose.

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

1. The detent A, swung within an iron or metal body, C, with a lip, G, in combination with the lock or trigger H, spring J, and lever K K, as and for the purpose set forth.

2. The lock or trigger H, in combination with the detent A, spring J, levers K K, and diagonal blocks P P, substantially as and for the purpose set forth.

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

WILSON ROBERT FUNK.

Witnesses:
JACOB BALSLEY,
H. D. COOPER.