

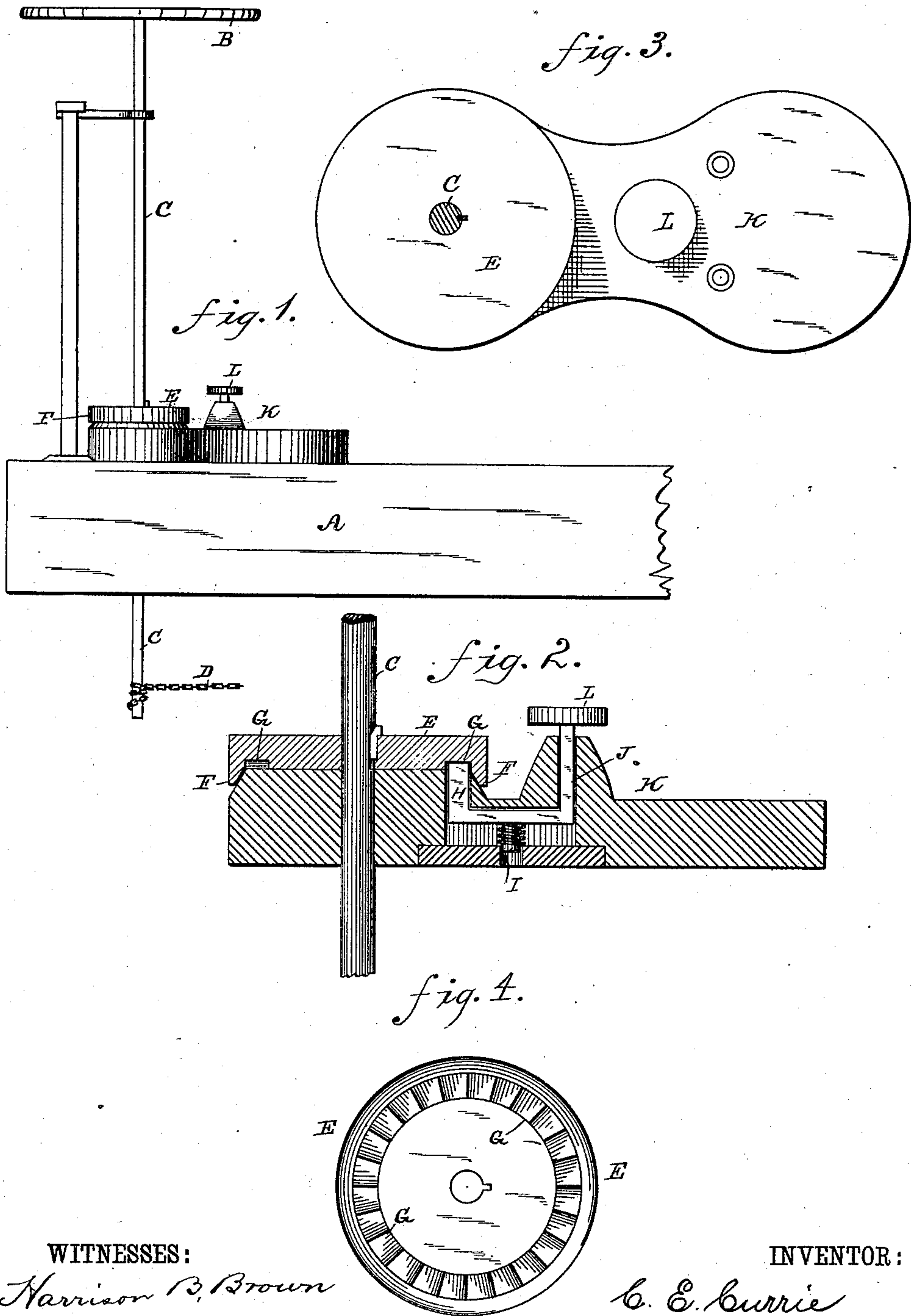
(No Model.)

C. E. CURRIE.

CAR BRAKE.

No. 316,879.

Patented Apr. 28, 1885.



WITNESSES:

Harrison B. Brown
W. X. Stevens.

INVENTOR:

C. E. Currie
BY Munroe L.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

CHARLES E. CURRIE, OF BUTTE, MONTANA TERRITORY.

CAR-BRAKE.

SPECIFICATION forming part of Letters Patent No. 316,879, dated April 28, 1885.

Application filed December 27, 1884. (No model.)

To all whom it may concern:

Be it known that I, CHARLES E. CURRIE, a subject of the Crown of Great Britain, who have declared my intention of becoming a citizen of the United States, residing at Butte, in the county of Silver Bow, Montana Territory, have invented certain new and useful Improvements in Car-Brakes, of which the following is a description.

10 This invention relates to that class of car-brakes which are used by hand to check the speed of railway-cars; and it has for its object to provide means whereby the hand-shaft may be automatically locked at any point to which
15 the operator may strain, it means whereby the said shaft may be released by the operator's foot with ease at any time desired, and means whereby the locking device is protected from dust and dirt, thereby insuring its working at all times and preventing it from grinding-wear.

To this end my invention consists in the construction and combination of parts forming a car-brake, hereinafter described and
25 claimed, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation of my invention. Fig. 2 is a longitudinal vertical section. Fig. 3 is a plan view of the same, and Fig. 4
30 is a detail view of the disk inverted.

A represents a portion of the platform of a car. B represents the hand-wheel, and C the hand-shaft on which it is fixed. The chain-shaft is journaled vertically in the platform, and extends below it to receive and wind up
35 the brake-chain D.

E is a disk fixed upon the shaft C, and provided with a downward-projecting rim, F, within which is a circle of ratchet teeth, G.

40 H is a detent fitted to slide vertically to en-

gage the teeth G, to hold the disk against the turning-strain of the brake-chain. The detent is provided with a stud, I, around which is a spring which continually lifts upon the detent to throw it into engagement with the
45 teeth. The detent is also provided with another stud, J, projecting up through the base K, and provided with a pedal, L, upon which the foot of the operator may press to disengage the detent from the teeth G of the disk.
50 The base K is to be secured to the platform of the car, and it serves to support the detent and spring, and is itself kept in a fixed relation to the disk and teeth by bearing upon the shaft C. The rim of the disk projecting down
55 around the teeth and the teeth facing downward, prevents any possibility of dust accumulating in the teeth. The pedal also flares out over and to all sides of the hole through which stud J rises, thereby preventing dust
60 from entering the device at this point, thus insuring its constant readiness for use, so that a brake thus provided may be always depended upon.

What I claim as my invention, and desire to
65 secure by Letters Patent, is:

The combination of the vertical chain-shaft C, the disk E fixed thereon and provided with the teeth G in its under side, the base K, the detent H, provided with the downward stud I and the upward stud J, fitted to
70 play vertically in the base, the spring around stud I, and the pedal L upon stud J, substantially as shown and described.

CHARLES E. CURRIE.

Witnesses:

F. O. EKSTATT,
ROBERT BATES,
J. B. DYER.