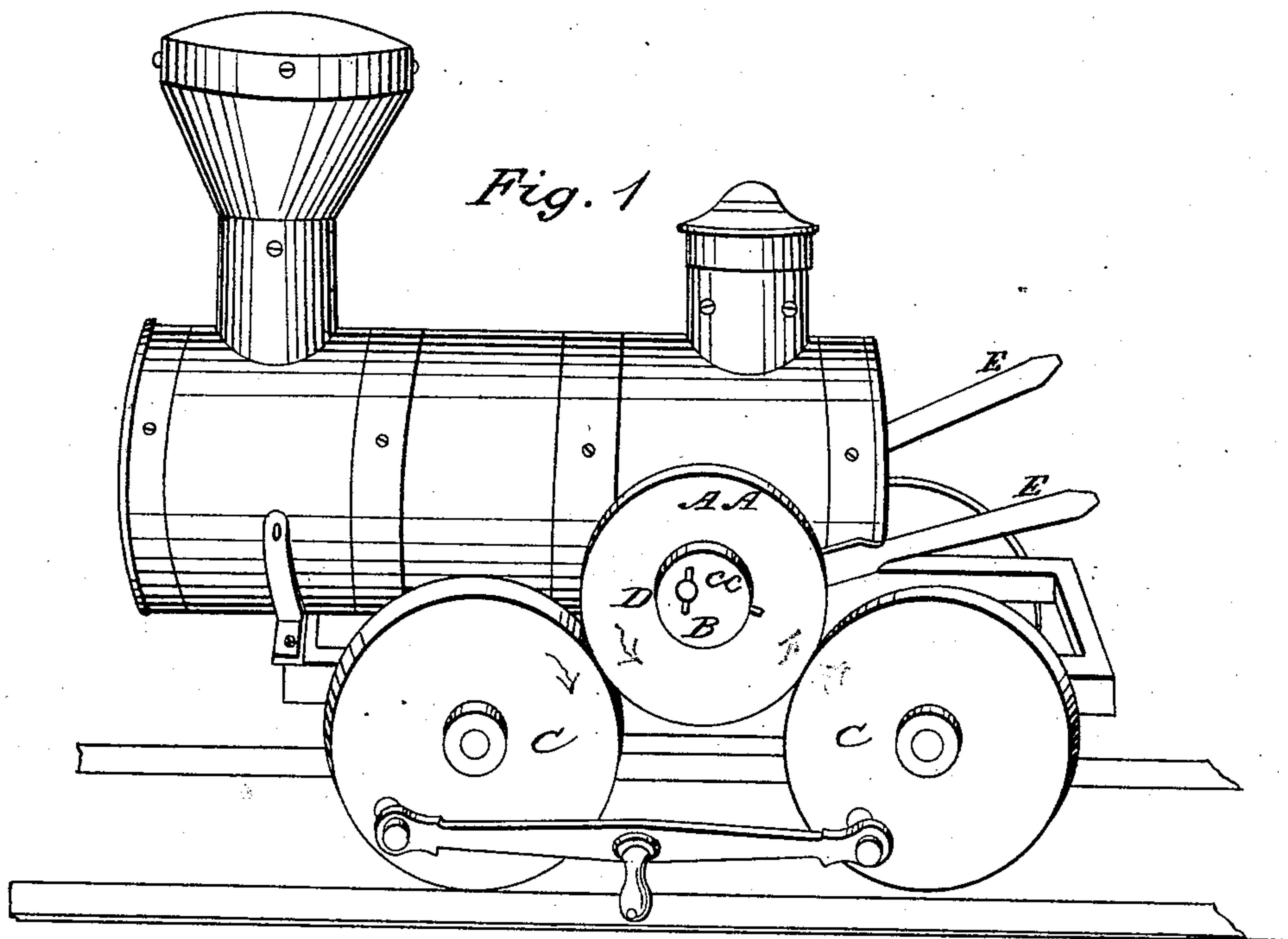
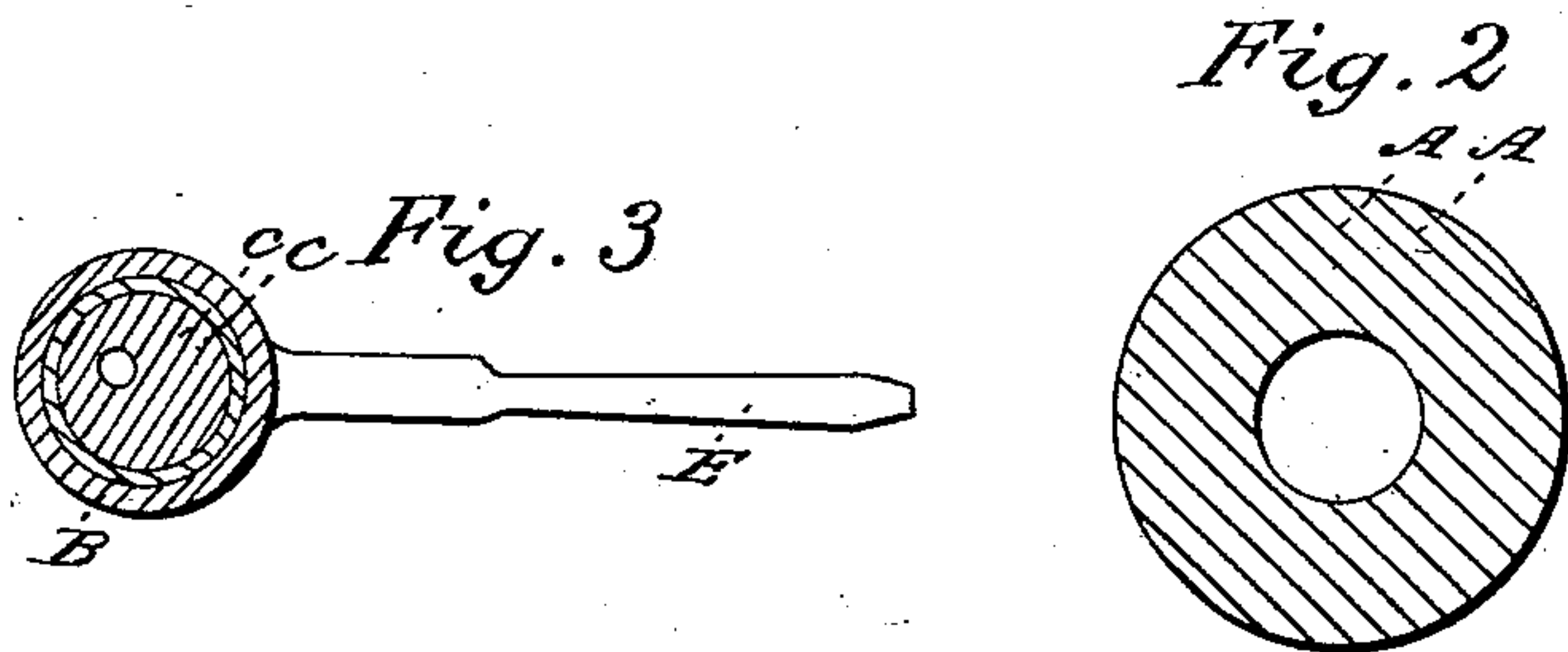


J. C. WILSON.

Car Brake.

No. 102,072.

Patented April 19, 1870.



Witnesses:  
D. J. Poweri  
Wm. C. Burwell

Inventor:  
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Attys.

# United States Patent Office.

JOSEPH C. WILSON, OF WINNECONNE, WISCONSIN.

Letters Patent No. 102,072, dated April 19, 1870.

## IMPROVEMENT IN LOCOMOTIVE AND CAR-BRAKES.

The Schedule referred to in these Letters Patent and making part of the same.

I, JOSEPH C. WILSON, of the town of Winneconne, in the county of Winnebago and State of Wisconsin, have invented certain Improvements in Locomotive and Car-Brakes, of which the following is a specification.

My invention consists of two certain friction-wheels mounted upon the sides of the boiler structure A A, upon suitable journals B, so that the peripheries of the said wheels corresponds with the peripheries of the driving-wheels of the locomotive, and equidistant between them, so that, when the journals B on which the wheels A A revolve, which are eccentric, circular cams C C, being fitted upon fixed arms D D, being the same attached to the boiler structure and before referred to, are turned forward or back, said wheels A A are brought nearer to drive-wheels.

The aforesaid circular cam-journals C C are each fitted with handles E E, extending up within the reach of the engineer, and, by being rotated forward and back upon their axis by means of said handles, they bring the aforesaid principal wheels A A down upon the driving-wheels with force sufficient to brake and check the same when in motion, with very direct and powerful energy.

By a slight reverse action of said levers, the said friction-wheels are readily and easily withdrawn from pressure and action altogether.

Such is the general character and operation of my device when applied to a locomotive-engine for the purpose of friction-braking.

The said device for braking may be applied to cars as well as locomotives, and upon one or both sides, as may be found desirable, and may be operated either by the aforesaid handles E E or any other equivalent device.

### Description of Drawings.

Figure 1 represents a locomotive with the improvement applied.

Figure 2, the principal friction-wheels A A.

Figure 3, eccentric circular cam-journals B B, on which wheels A A revolve.

C C are the wheels of the locomotive between which the friction-wheels A A are arranged, which latter wheels are operated by means of the levers E E, so that, when the latter are raised to a vertical position, the wheels E E are released from contact with wheels of the locomotive or car, and, when the levers are depressed, are brought in contact with such wheels, and the friction thus operates as a brake.

### Claims.

I claim as my invention—

1. The construction and arrangement of locomotive, truck, and car-brake, when the same is composed of a shaft upon which is adjusted a cam, when said cam is surrounded by a wheel and operated by a lever, so that, by reason of the eccentric cam, the wheel can be made to impinge upon the wheels of the locomotive or car-trucks, in the manner and for the purpose herein described.

2. The combination of the friction-wheels A A, hung eccentrically upon the cam-journal B, in combination with the levers E and car-wheels C C, in the manner and for the purpose herein described.

JOSEPH C. WILSON.

Witnesses:

D. J. POWERS,  
WM. C. FARWELL.