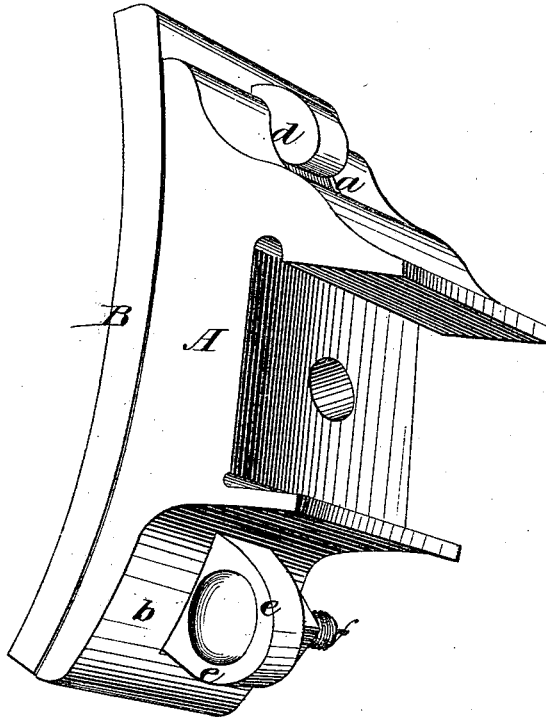


W. ROBINSON, Jr.  
Brake-Shoe.

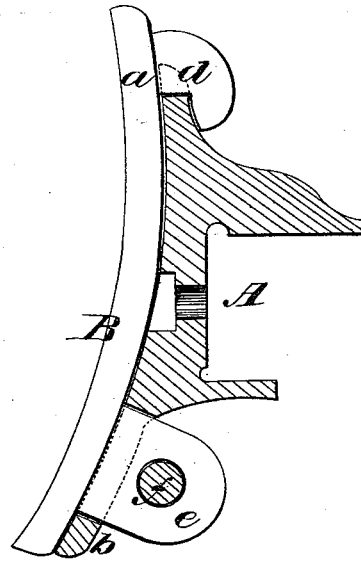
No. 165,872

Patented July 20, 1875.

*Fig. 1*



*Fig. 2*



WITNESSES:

*Francis McArdle.*  
*A. F. Terry*

INVENTOR:

*W. Robinson, Jr.*  
BY *mm*  
ATTORNEYS.

# UNITED STATES PATENT OFFICE.

WILLIAM ROBINSON, JR., OF WILMINGTON, DELAWARE, ASSIGNOR TO  
HIMSELF AND SAMUEL HARRIS, OF SAME PLACE.

## IMPROVEMENT IN BRAKE-SHOES.

Specification forming part of Letters Patent No. **165,872**, dated July 20, 1875; application filed  
April 24, 1875.

*To all whom it may concern:*

Be it known that I, WILLIAM ROBINSON, Jr., of Wilmington, New Castle county, Delaware, have invented a new and Improved Brake-Shoe, of which the following is a specification:

Figure 1 represents a perspective view of my improved car-brake shoe with sole attached, and Fig. 2 a vertical longitudinal section of the same.

Similar letters of reference indicate corresponding parts.

My invention has for its object to avoid the flying off of the soles of car-brake shoes, by which the safety of the train is endangered because of their liability to get under the wheel; and the invention consists in a secure mode of attaching the sole to the shoe.

In the drawing, A represents the brake-shoe, which is attached, in the customary manner in car-brakes, firmly to the end of the brake-beam. The brake-shoe A is provided with a recess, *a*, at the upper end, and with a

slot, *b*, at the lower end, which serve to connect the interchangeable and detachable sole part B by a top hook, *d*, locking into recess *a*, and by a perforated lug or ear, *e*, passing through the lower slot *d*. The ear *e* is firmly secured to the shoe by a suitable key, wedge, screw, or other fastening device, *f*. The sole B is thereby fastened in a very secure manner, without being liable to be thrown off by the vibration and friction to which it is exposed, while it may be readily and quickly replaced when worn out by use.

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

A brake-shoe having recess *a* at the upper end and slot *b* at the lower, in combination with sole B, having top hook *d* and ear *e*, as and for the purpose specified.

WILLIAM ROBINSON, JR.

Witnesses:

JOHN HAMILTON,  
JOHN D. VINSON.