(No Model.)

R. M. QUACKENBUSH.

VEHICLE BRAKE.

No. 261,255. Patented July 18, 1882.

Fig. 1.

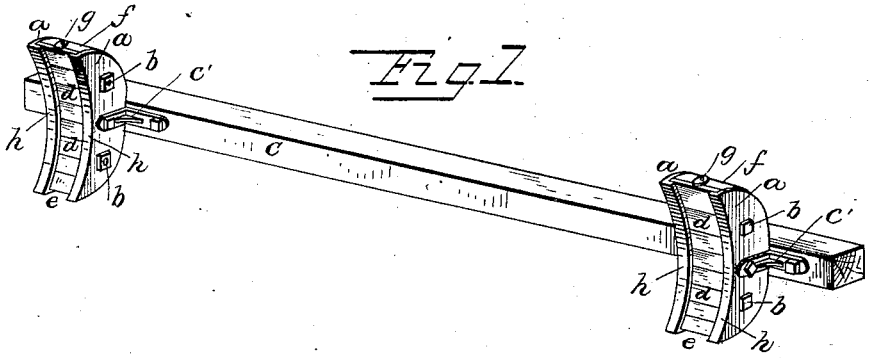


Fig. 2.

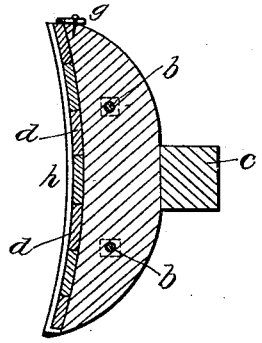


Fig. 3.

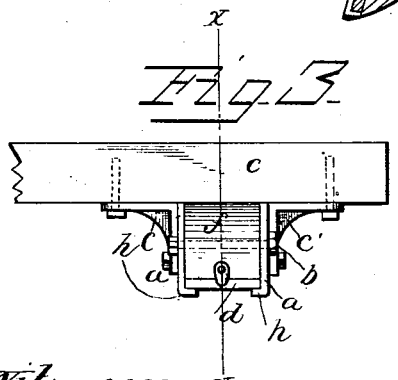
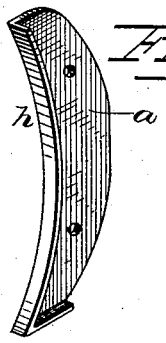


Fig. 4.



Witnesses,
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J. C. Turner

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UNITED STATES PATENT OFFICE.

RUSSELL M. QUACKENBUSH, OF SANTA ROSA, CALIFORNIA.

VEHICLE-BRAKE.

SPECIFICATION forming part of Letters Patent No. 261,255, dated July 18, 1882.

Application filed April 14, 1882. (No model.)

To all whom it may concern:

Be it known that I, RUSSELL M. QUACKENBUSH, a citizen of the United States, residing at Santa Rosa, in the county of Sonoma and State of California, have invented certain new and useful Improvements in Vehicle-Brakes, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to vehicle-brakes. It consists in a block provided with two side plates which are secured thereto by bolts, the bolts passing through the plates and block, thus rigidly uniting the plates to the block. Said plates extend outward beyond the face and bottom of the block, a part of their extension being lapped inward at right angles from their bodies, so that the face of the block and the angle part of the plates form a double groove running from the top to the bottom of the block. The lapped-under ends of the plates form the bottom of the grooves. These double grooves are designed to receive the ends of short narrow strips or blocks placed transversely thereon. The backs of said strips fit against the face of the brake-block. The lower strip is held and prevented from falling through by the bottom of the plates which lap under it. The top strip of the series is prevented from displacement by a turning-key united to the top of the block. The plates which secure the block and strips are united to the beam by right-angled plates and bolts, all of which will be more fully hereinafter described, and pointed out in the claims.

I accomplish the foregoing objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of the device attached to a brake-bar. Fig. 2 represents a vertical section on the line *x x*, Fig. 3. Fig. 3 is a plan view. Fig. 4 illustrates a perspective of one of the side plates.

The letters *a a* represent the side plates secured to block by bolts *b b*.

c is the beam, to which the plates and block are secured by right-angled plates *c'*, which are provided with slots and bolts, one bolt passing through a slot and into the beam, and another bolt passing through the slot in the right-angled piece, and thence through the plate and into the block.

d d indicate the strips or blocks forming the shoe of the brake. They come in contact with the tire of the wheel.

e is the block, having the strips *d d* on its face and the plates *a a* bolted to its sides.

f is the top of block *e*, and has a key, *g*, secured thereon by a screw, and by means of which the top strip, *d*, is prevented from being displaced when in contact with the tire.

h h represent the lapped edges of plates *a a*. These edges lap partly over the face of the block and aid in forming a groove for the reception of the ends of strips *d d*, and by means of which said strips are secured. The under laps on said plates secure the lower strip on its under side and prevent displacement. It must be apparent that when these wooden strips *d d* become worn they can be easily and quickly removed and replaced by others without the aid of tools or mechanical assistance.

The block and strips of my device are sufficiently wide to prevent the tire from rubbing the lapped edges of the side plates.

I have shown and described a key secured by screw to the top of the block to prevent displacement of the top strip. This feature is not absolutely essential to the successful working of my device at all times, yet there are occasions where it might be of service, and I therefore retain it. The general tendency of the blocks is to remain in position and press downward by their own weight when placed in the grooves.

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

In a vehicle-brake, the combination of the plates *a a*, secured to the block *e f* by bolts and nuts, said plates having lapped edges *h h*, turned over on the edges of strips *d d* and under the block *e*, covering the edge thereof, the lapped edges on the face of the block forming a groove or recess to receive and secure the strips *d d*, also the button or key *g*, fixed at the top of the block at *f* to prevent displacement of the strips, and the bar *c*, secured to the plates *a a* by brace *c'*, substantially as described, and for the purposes set forth.

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

RUSSELL M. QUACKENBUSH.

Witnesses:

ALBERT G. SHANNON,

WILLIAM W. PORTER.