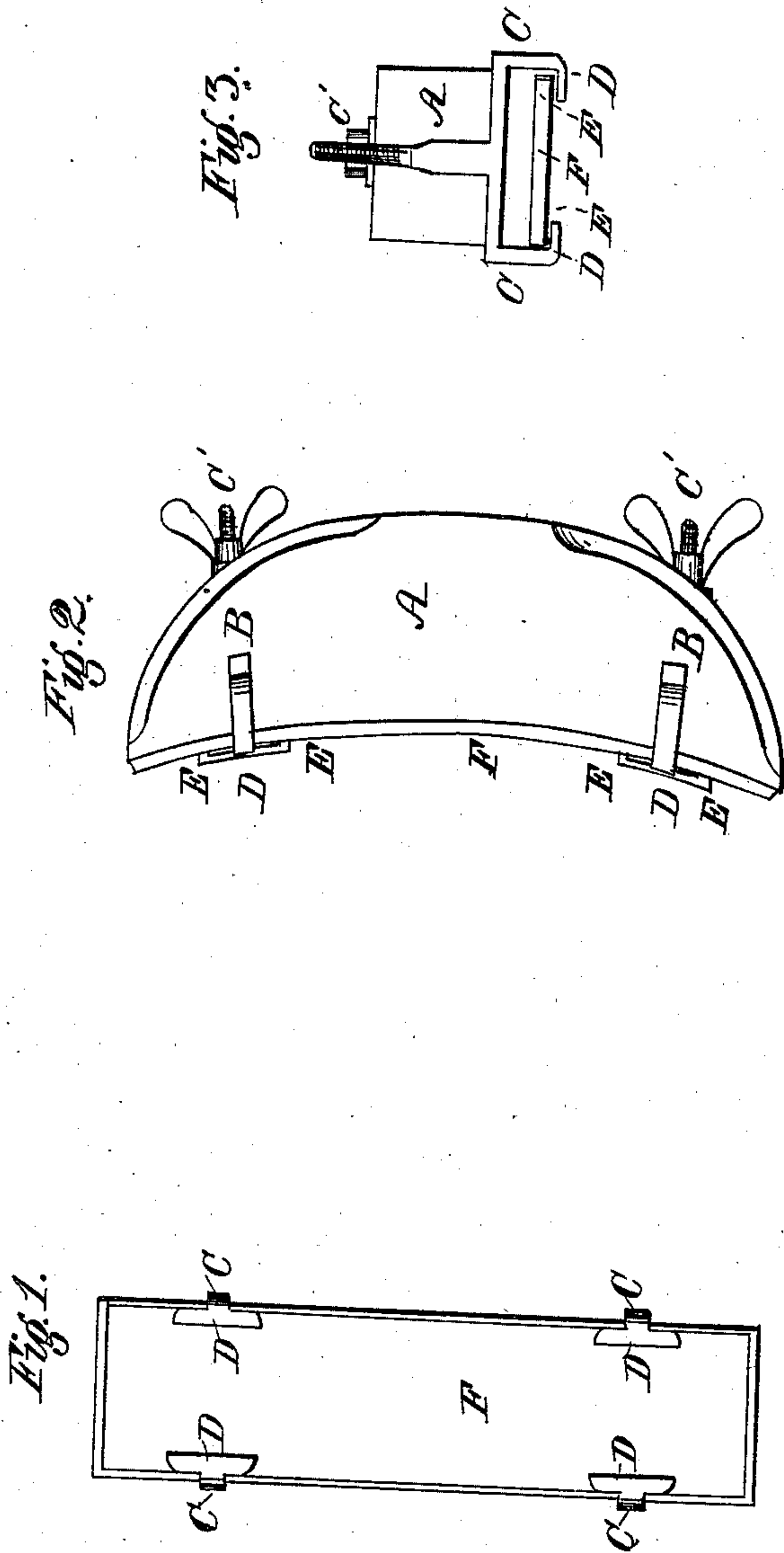


H. CROWELL.
Wagon-Brake Block.

No. 86,648.

Patented Feb. 9, 1869.



Witnesses.
Geo. H. Strong.
J. L. Boone

Inventor.
Herman Crowell
By his Atty: Dewey & Co



HEMAN CROWELL, OF WASHINGTON CORNERS, CALIFORNIA.

Letters Patent No. 86,648, dated February 9, 1869.

IMPROVEMENT IN WAGON-BRAKE BLOCKS.

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

To all whom it may concern:

Be it known that I, HEMAN CROWELL, of Washington Corners, county of Alameda, State of California, have invented an Improved Brake-Block for Wagon-Wheels; and I do hereby declare the following description and accompanying drawings are sufficient to enable any person skilled in the art or science to which it most nearly appertains, to make and use my said invention or improvements without further invention or experiment.

The nature of my invention is to provide an improved brake-block for wagon-wheels, so constructed that the pieces against which the wheels rub, when worn out and rendered useless, may be changed, and new ones substituted.

The rubbing-bands, or strips, are held by clamps, the shanks of which pass through the brake-block, where they are held and adjusted by set-screws.

To more fully explain my invention, reference is had to the accompanying drawings, and the letters marked thereon, of which—

Figure 1 is a front view;

Figure 2 is a side view; and

Figure 3, an end sectional view.

Similar letters of reference indicate corresponding parts in each of these figures.

A represents the block, having transverse slots B B in its face, made deep enough to admit the shoulder of the clip C, the shanks of which pass through the block, where it is held by a thumb-screw, C', turning against washers countersunk in the block.

To the arms of the clip are attached longitudinal pieces, D D, with points, E E, extending downward at each end, so that when the adjustable brake-boards are placed under the clips, and the thumb-screws are turned up, the points will sink into them and hold them fast.

The ends of the clips, bent at right angles over the brake-board, might answer very well for the purpose, provided sufficient pressure could be obtained by the set-screws.

For the construction of my brake-blocks I would recommend iron, made sufficiently wide to admit the broadest wagon-tires, and the longitudinal pieces far enough apart for the wheel to travel between without friction against their sides.

The adjustable strips F F may be made of leather, wood, or metal, as wide as the face of the brake-block, and be carried along the route in the wagon of the teamster, and be changed, as occasion requires, by simply unscrewing the clips, and removing the worn-out piece, and inserting the end of a new one under the first clip and drawing it along under the other, when, by turning the set-screws up, the wagon is ready to proceed on its journey.

By this means I have an efficient and simple brake-block, thereby saving much time and expense over the ordinary method of accomplishing the same object.

Having thus described my invention,

What I claim, and desire to secure by Letters Patent, is—

Confining the brake-boards, or strips F F, to the brake-block by the clips C C, provided with longitudinal pieces D D, having points E E, or the ends of the clips bent at right angles over the said strips, substantially as described.

In witness whereof, I have hereunto set my hand and seal.

H. CROWELL. [L. s.]

Witnesses:

C. W. M. SMITH,
J. L. BOONE.