

G. G. BUCKLAND.
Wagon-Brake Block.

No. 163,046.

Patented May 11, 1875.

Fig. 1.

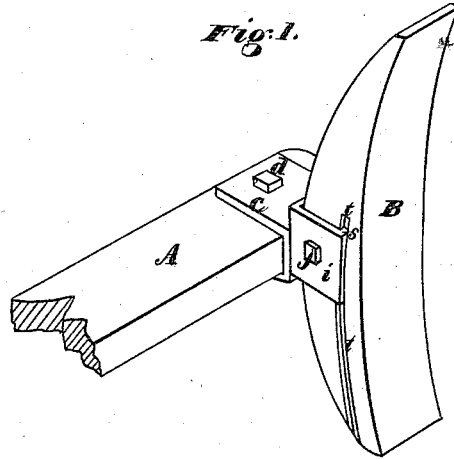


Fig. 2.

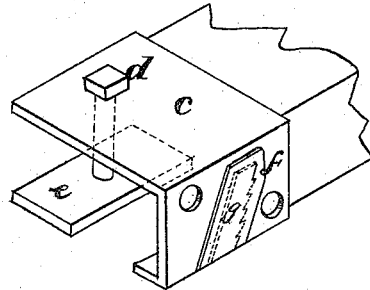
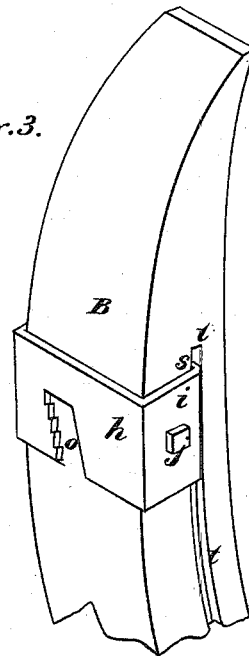


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

GEORGE G. BUCKLAND, OF MILTON, CALIFORNIA.

IMPROVEMENT IN WAGON-BRAKE BLOCKS.

Specification forming part of Letters Patent No. **163,016**, dated May 11, 1875; application filed March 24, 1875.

To all whom it may concern:

Be it known that I, GEORGE G. BUCKLAND, of Milton, Calaveras county, State of California, have invented Improvements in Wagon-Brakes; 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 improvement without further invention or experiment.

My invention relates to an improved device for attaching brake-blocks to the brake-beams of wheeled vehicles, by means of which the attachment can be readily and simply made.

In order to more fully illustrate and describe my invention, reference is had to the accompanying drawings forming a part of this specification, in which—

Figure 1 is a perspective view of my brake bar and block. Figs. 2 and 3 are detailed views of parts of my device.

Let A represent one end of the brake-beam of a wheeled vehicle to which the brake-block B is to be attached.

To make this attachment I secure to the end of each brake-beam a metal plate, C, which is so formed that it fits over the top and front edge of the beam, and also under it, and is secured to it by a bolt, *d*, which passes down through the top plate and beam, and screws into a nut, *e*, on the under side of the beam. This nut should be large so as to prevent the beam from splitting. To the portion of the plate *c*, which extends across the front edge of the beam, I secure diagonally a long metal button, *f*, which has a long diagonal metal shank, *g*.

To the rear or convex side of the block B I secure a metal plate, *h*, which is bent at each end so as to provide flanges *i*, which clasp the sides of the block, as shown, and through each of which a screw, *j*, passes into the block in order to fasten the plate *h* in place. In one side of the plate *h* I make a diagonal slot, *o*, which extends to its center. A portion of the wood underneath the plate is removed, so that the button *f* on the brake-beam can slip under the plate *h*, while the diagonal shank of the button enters the diagonal slot in the plate, thus securing the block to the beam in

such a manner that a direct strain upon it up and down will not affect it, while the diagonal arrangement of both slot and shank causes the block to stand vertically in line with the wheel. To remove the block, it is lifted upward and outward diagonally from the wagon.

For greater security, I roughen or make teeth on one side of the shank *g*, and also on the side of the slot *o* next to the toothed side of the shank, so that when the shoe is placed in position, the teeth will interlock and strengthen the fastening.

The bent ends of the plate *h* are made to clamp the sides of the block tightly. One of these sides or flanges has its edge turned inward as at *s*, and a gouge or groove, *t*, is made in the side of the block parallel with its back, in which this edge fits. This plate can be shifted to either side, if desired, by removing the screws *j*, and as the flanges converge toward the bottom the tighter they will fit against the sides of the block.

It will be unnecessary, however, to shift the plate unless the block should shrink away from it.

I thus provide an exceedingly cheap and simple fastening for brake-blocks, which will not mar or weaken the brake-beam.

By making the slot and button diagonal to the strain which will come upon the block, I avoid all liability of displacement of the block when the wheel is turned backward in backing the vehicle.

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

1. The brake-beam A, in combination with the plate *c*, having the diagonal button *f*, and shank *g*, the block B, and plate *h*, having the diagonal slot *o*, all substantially as and for the purpose set forth.

2. In a brake-block attachment for wagons, the roughened or toothed shank *g* of the button *f*, in combination with the roughened or toothed side of the slot *o*, substantially as and for the purpose set forth.

In witness whereof I hereunto set my hand and seal.

GEORGE GARDNER BUCKLAND. [L. s.]

Witnesses:

J. C. EPOSURE,
E. D. SMITH.