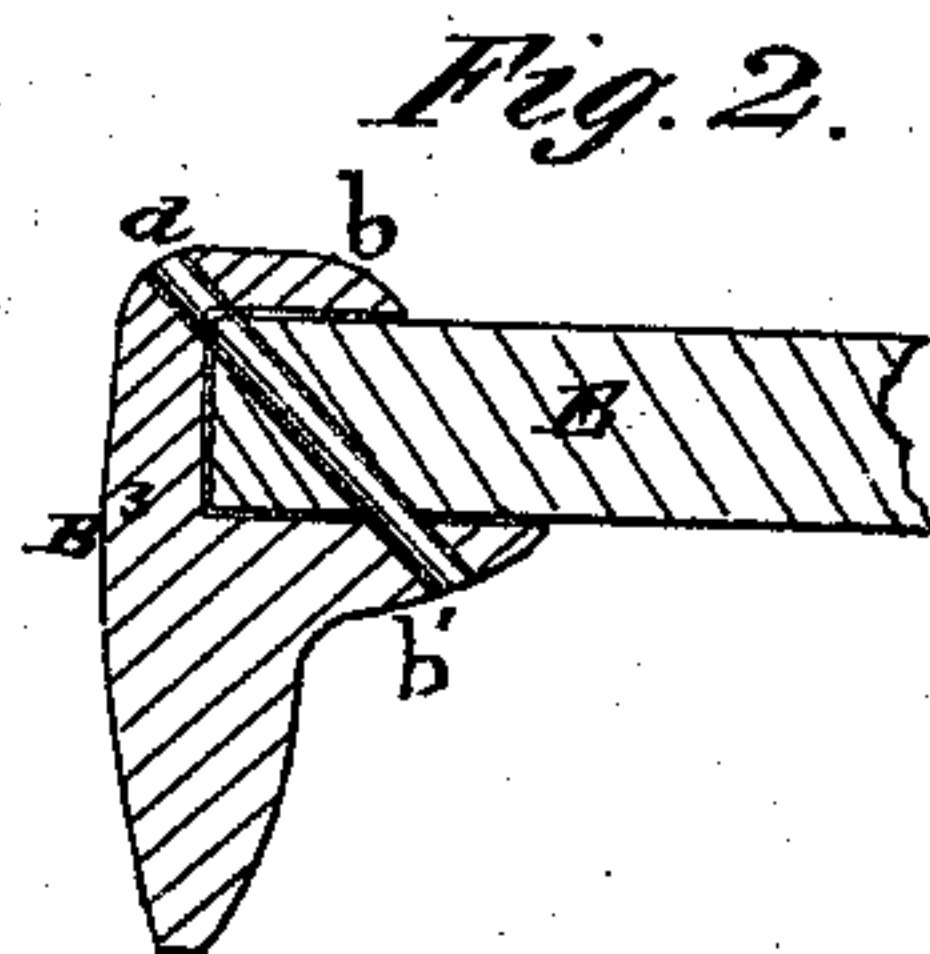
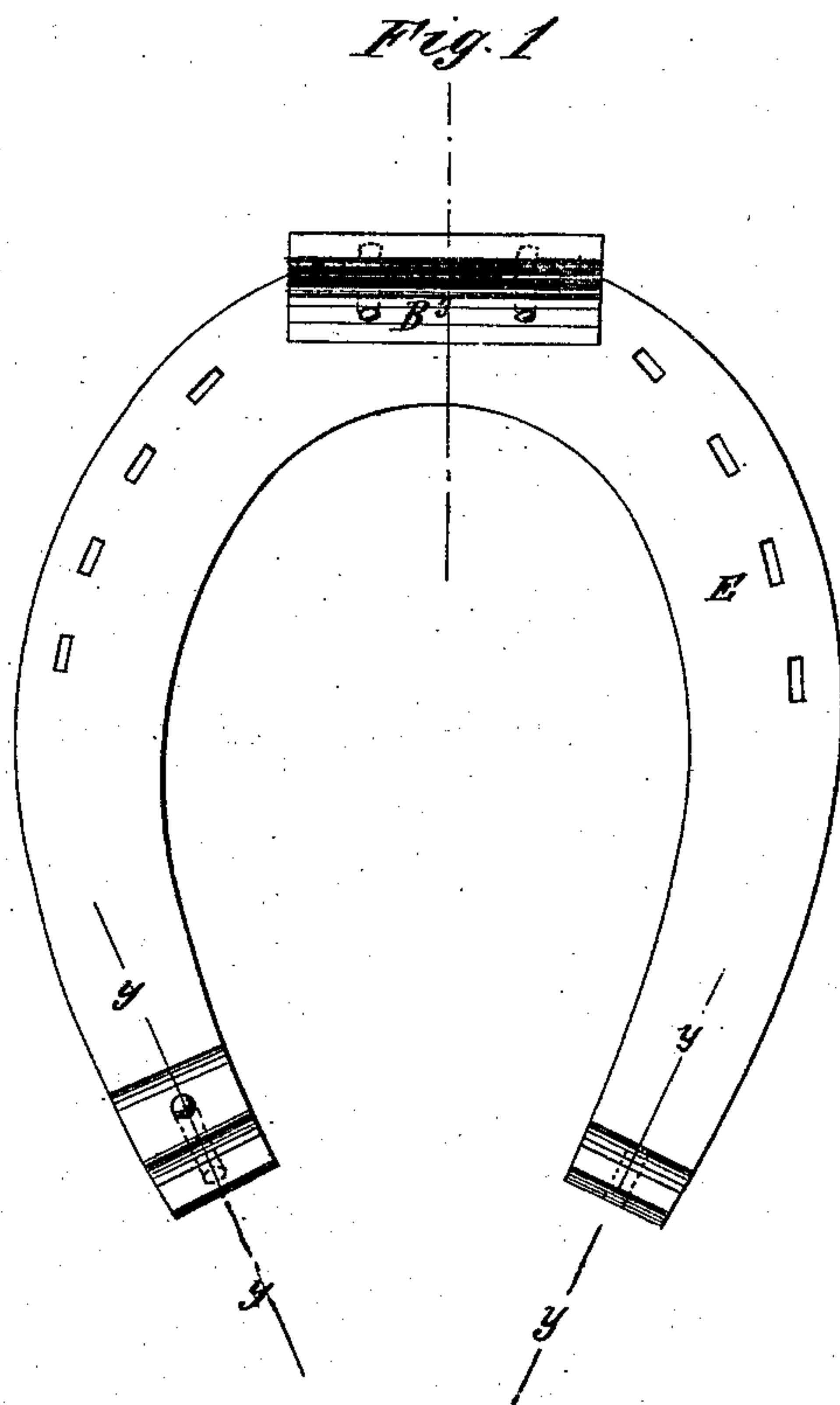


B. O. BRADFELD.
Detachable Horseshoe-Calks.

No. 156,476.

Patented Nov. 3, 1874.



WITNESSES:

A. W. Almqvist
Edgwick

INVENTOR:

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ATTORNEYS.

UNITED STATES PATENT OFFICE.

BUSHROD O. BRADFIELD, OF PITTSBURG, PENNSYLVANIA.

IMPROVEMENT IN DETACHABLE HORSESHOE-CALKS.

Specification forming part of Letters Patent No. **156,476**, dated November 3, 1874; application filed February 7, 1874.

To all whom it may concern:

Be it known that I, BUSHROD O. BRADFIELD, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and Improved Detachable Horseshoe-Calk; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing forming a part of this specification.

The invention will first be fully described, and then pointed out in the claim.

In the drawing, Figure 1 is a plan, and Fig. 2 is a vertical section through calk and body of shoe in line *y y* of Fig. 1.

B³ is my improved horseshoe-calk, having a rear aperture and horizontal lips *b b'*, the lower preferably a little longer than the upper,

and somewhat thicker. These lips embrace the body E of a horseshoe. *d* is a bolt passed diagonally from the highest point of the calk through the body E and lip *b'*. The lip *b*, being comparatively thin, will not be objectionable, while the rivet or pin is out of the way of the hoof, and is yet made to take a good hold upon the shoe.

What I claim is—

The combination of the shoe E and calk B³, having flanges *b b'*, and secured by bolt *d* passing diagonally through said calk and shoe, as and for the purpose specified.

B. O. BRADFIELD.

Witnesses:

A. P. THAYER,
T. B. MOSHER.