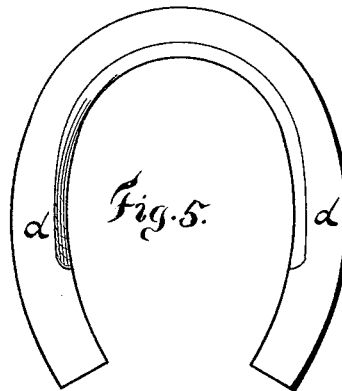
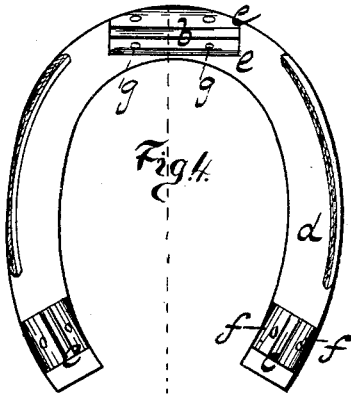
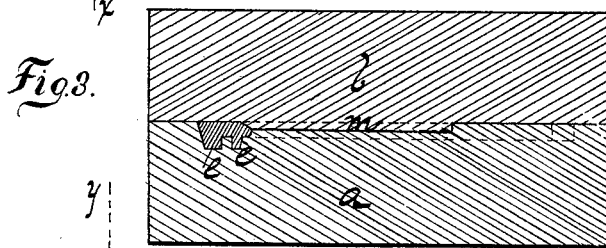
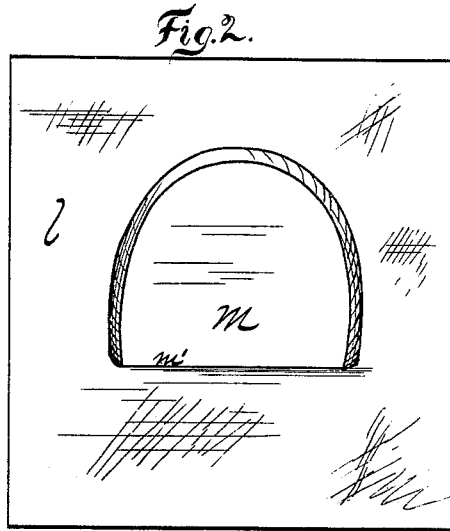
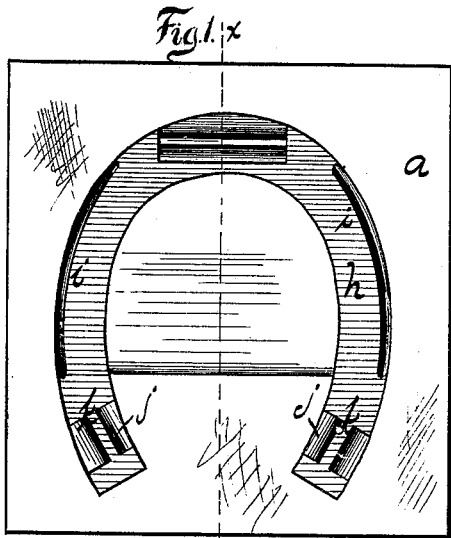


G. BRYDEN.
Dies for Making Horseshoes.

No. 206,859.

Patented Aug. 13, 1878.



Witnesses:
Robt F. Gayford,
Lewis Sperry



Inventor:
Geo Bryden,
By W.E. Simonds
atly

UNITED STATES PATENT OFFICE.

GEORGE BRYDEN, OF HARTFORD, CONNECTICUT.

IMPROVEMENT IN DIES FOR MAKING HORSESHOES.

Specification forming part of Letters Patent No. **206,859**, dated August 13, 1878; application filed August 16, 1877.

To all whom it may concern:

Be it known that I, GEORGE BRYDEN, of Hartford, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements pertaining to Dies for Making Horseshoes, of which the following is a specification, reference being had to the accompanying drawings, where—

Figure 1 is a face view of lower die. Fig. 2 is a face view of upper die. Fig. 3 is a section of the closed dies on plane *x x*. Fig. 4 is a face view of the shoe. Fig. 5 is a view of the rear or upper side of the shoe. Fig. 6 is a section of the shoe in plane *y y*.

The shoe is mainly formed in the lower die, *a*, the bar of stock being preliminarily heated and bent to shoe shape. The main peculiarity of the dies is the means for forming sockets for removable calks. The letters *b* and *c c* denote these removable calks in the finished shoe, the letter *b* the calk at the toe or front, and *c c* the two calks at the rear or heel. The letter *d* denotes the body of the shoe; *e e*, raised parts, forming between them a socket for calk *b*; and *f f* denote raised parts, forming between them sockets for the calks *c c*. The calks are held to place by pins *g*. In the

die *a* the letter *h* denotes the matrix, which gives shape to the main body of the shoe, the letters *i i* the crease-formers, and the letters *j j* the depressions, each pair separated by a bridge, *k*, which gives form to the raised parts *e* and *f*. The upper die, *b*, may be worked in a drop, a press, or other apparatus fitted to give the proper motion and sufficient power. This die has the beveled projection *m* to give the beveled depression *n* to the upper or back side of the shoe, this projection ending with an abrupt shoulder, *m'*, on the line where the bevel *n* ends.

I claim as my invention—

The hereinbefore-described dies for forming horseshoes, consisting of the lower die, *a*, having the body-shaping matrix *h*, the crease-formers *i i*, and the bridges *k* and depressions *j*, for forming the heel and toe calk sockets, and the upper die, *b*, having the beveled projection *m*, ending in an abrupt shoulder, *m'*, all substantially as and for the purpose specified.

GEO. BRYDEN.

Witnesses:

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