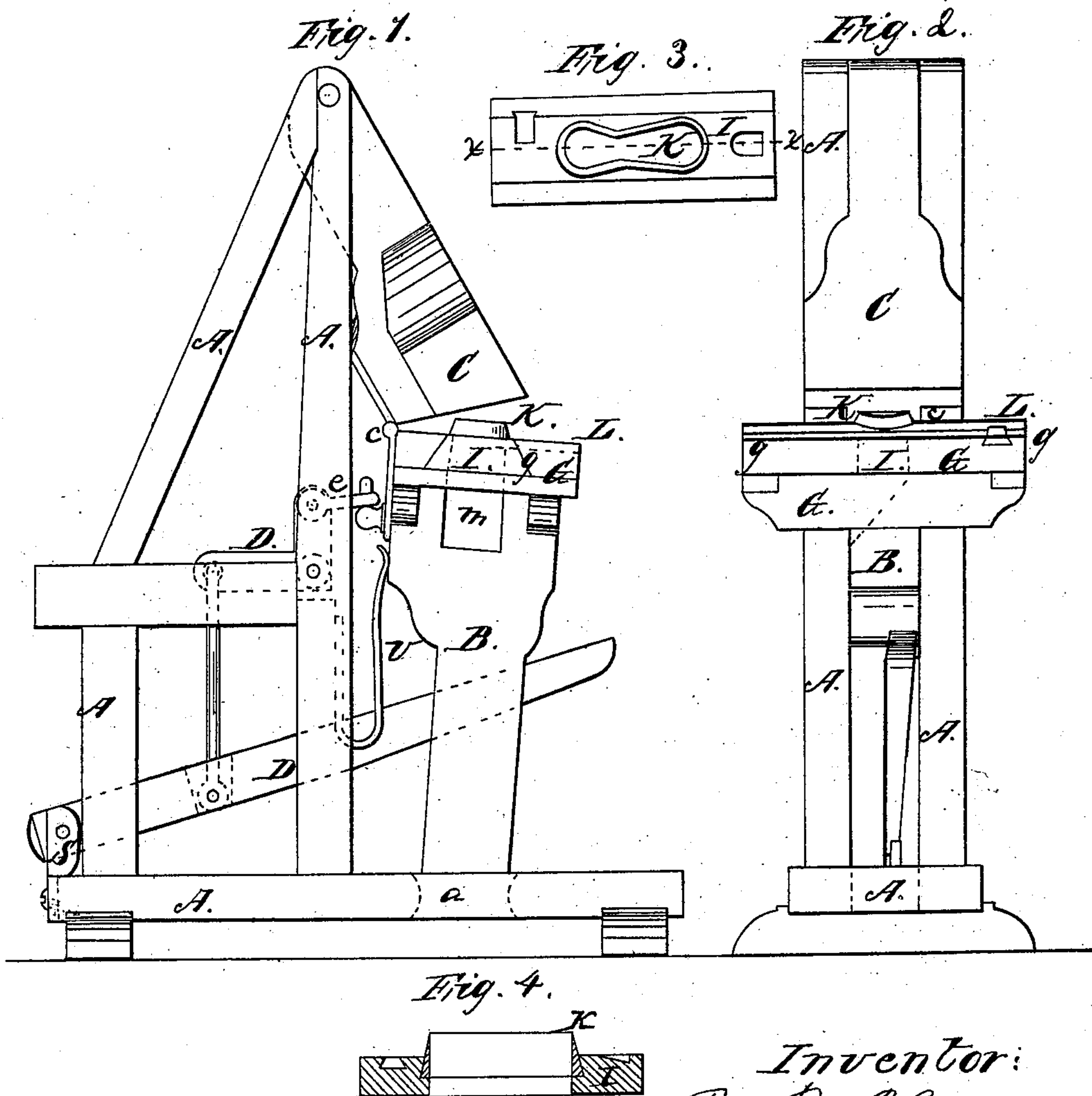


B. B. Harris,
Shoe-Sole Machine,
No 70,558, Patented Nov. 5, 1867.



Witnesses:

Wm. Brown
J. Blockley

Inventor:
B. B. Harris
Per Wm. L. Atorney

United States Patent Office.

BENJAMIN B. HARRIS, OF LOCKPORT, ILLINOIS, ASSIGNOR TO HIMSELF,
F. G. HARRIS, AND SENECA SLY, OF SAME PLACE.

Letters Patent No. 70,558, dated November 5, 1867.

IMPROVED MACHINE FOR STAMPING AND SHAPING LEATHER.

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, BENJAMIN B. HARRIS, of Lockport, in the county of Will, and State of Illinois, have invented a new and improved Device for Stamping and Shaping Leather; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to an improved device for stamping and shaping leather, and consist in a combination of toggle-joint, levers, springs, follower, dies and knife, as hereinafter more fully described. In the accompanying drawings—

Figure 1 is a side elevation, and

Figure 2 a front elevation of my improved machine.

Figure 3 is a top view of a die and knife, and

Figure 4 is a section thereof on line *x x* of fig. 3.

Similar letters of reference indicate like parts.

A A is the frame, in which the parts of the machine are disposed. The post B plays through the loose mortise *a* in A, and is hinged at *c* to the follower C, which is pivoted to the frame A at *c'*, forming with it a toggle-joint, the spring U keeping the joint open. The lever of the second order, D, having its fulcrum at S, and connected by the elbow or bell-crank E, stirrup *e*, and hook *f*, to the post B, operates the toggle-joint and brings the follower C down upon the knife *k*, carried in the knife or die-plate I. G is the stage, borne on the post B, having the dove-tailed groove *g* to receive the die or knife-plate I, and a hole, *m*, for the leather when cut to fall through. Dove-tailed pin L holds the die-plate I in place.

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

1. The combination of the toggle-joint and levers, all as set forth, with the follower C hung from the frame A, having the stage-post B hung from it, and playing through a loose mortise, in manner substantially as herein shown and described.

2. The die or knife-plate I, carrying the knife *k*, sliding in the dove-tailed groove *g*, on stage G, which is furnished with the hole *m*, and bolted by the dove-tailed pin L to the stage G, all as set forth, in combination with the toggle-joint, levers, and followers, substantially as herein shown and described.

BENJAMIN B. HARRIS.

Witnesses:

SENECA SLY,

HARRY W. CHAMBERLAIN.