

L. CHAPMAN.

MACHINE FOR OPENING THE EYES OF AXES.

No. 172,249.

Patented Jan. 18, 1876.

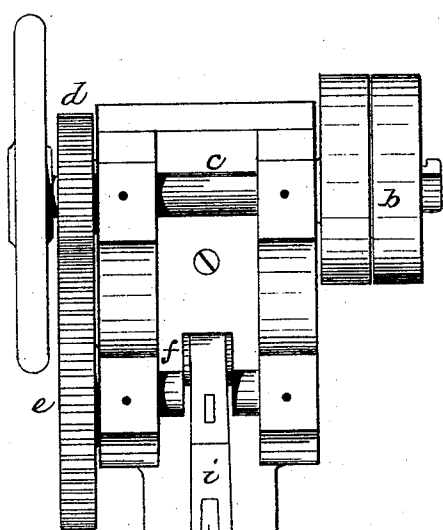


Fig 1.

a a

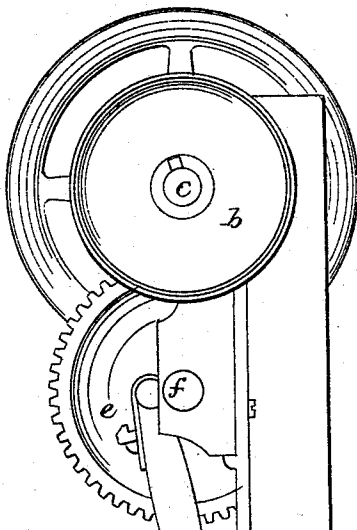


Fig 2.

a

i

g

h

k

h

f

WITNESSES:

B. C. Pote
Yeoman Pike

INVENTOR.

Luke Chapman
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ATTORNEYS.

UNITED STATES PATENT OFFICE.

LUKE CHAPMAN, OF COLLINSVILLE, CONNECTICUT, ASSIGNOR TO THE
COLLINS COMPANY, OF SAME PLACE.

IMPROVEMENT IN MACHINES FOR OPENING THE EYES OF AXES.

Specification forming part of Letters Patent No. **172,249**, dated January 18, 1876; application filed
February 24, 1875.

CASE K.

To all whom it may concern:

Be it known that I, LUKE CHAPMAN, of Collinsville, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements Pertaining to a Machine for Opening and Forming the Eyes of Axes and other tools, of which the following is a specification, reference being had to the accompanying drawings, where—

Figure 1 is a front view. Fig. 2 is a side view.

The letter *a* denotes the frame of the machine. Power is applied by belt to pulley *b* on shaft *c*, bearing pinion *d*, meshing into gear *e* on crank-shaft *f*, from which pitman *i* gives up-and-down motion to punch-stock *g*, bearing one or more eye-opening punches, *h*. The

platen *j*, on which the ax is placed, is vertically adjustable, so that it can be adjusted to allow the punch to enter to just the desired point, and no deeper. The detaching-guard *k*, which detaches the ax from the punch when it moves upward, is also vertically adjustable.

I claim as my invention—

The combination of the reciprocating punch-stock, the adjustable platen, and the adjustable detaching-guard, substantially as described.

LUKE CHAPMAN.

Witnesses:

WM. EDGAR SIMONDS,
GEORGE E. NOLAN.