

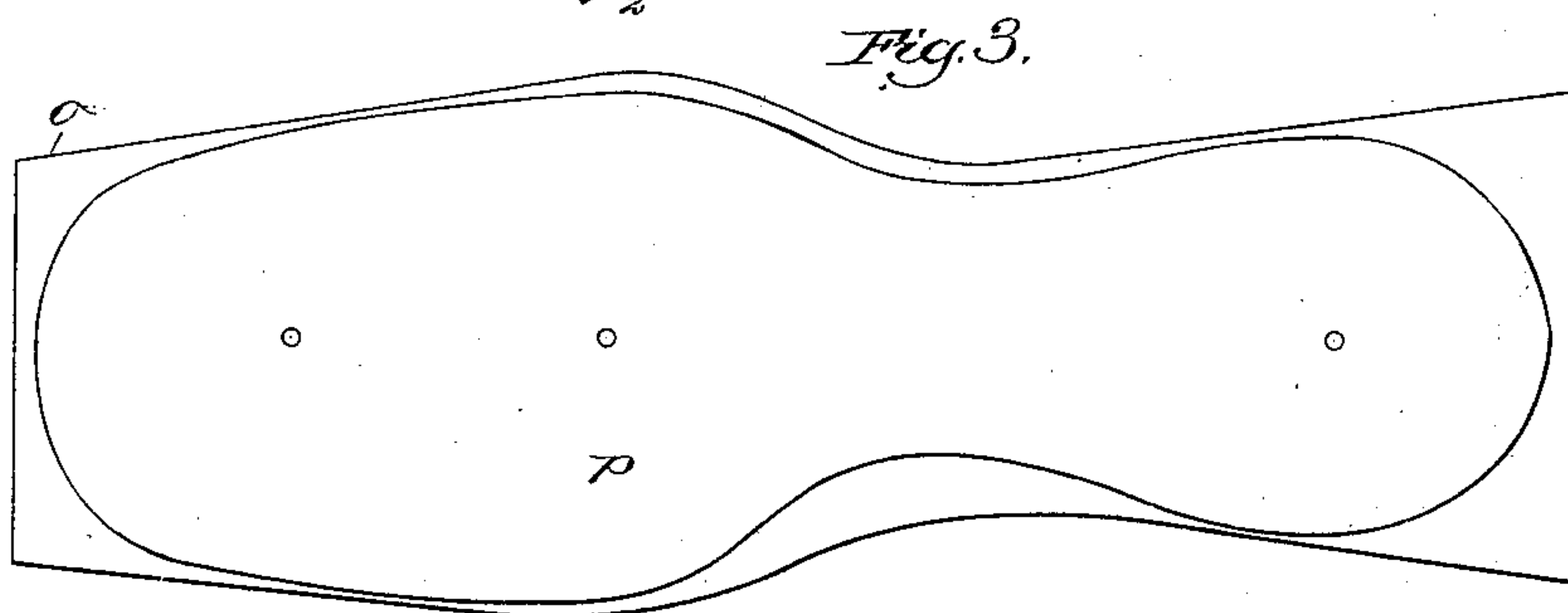
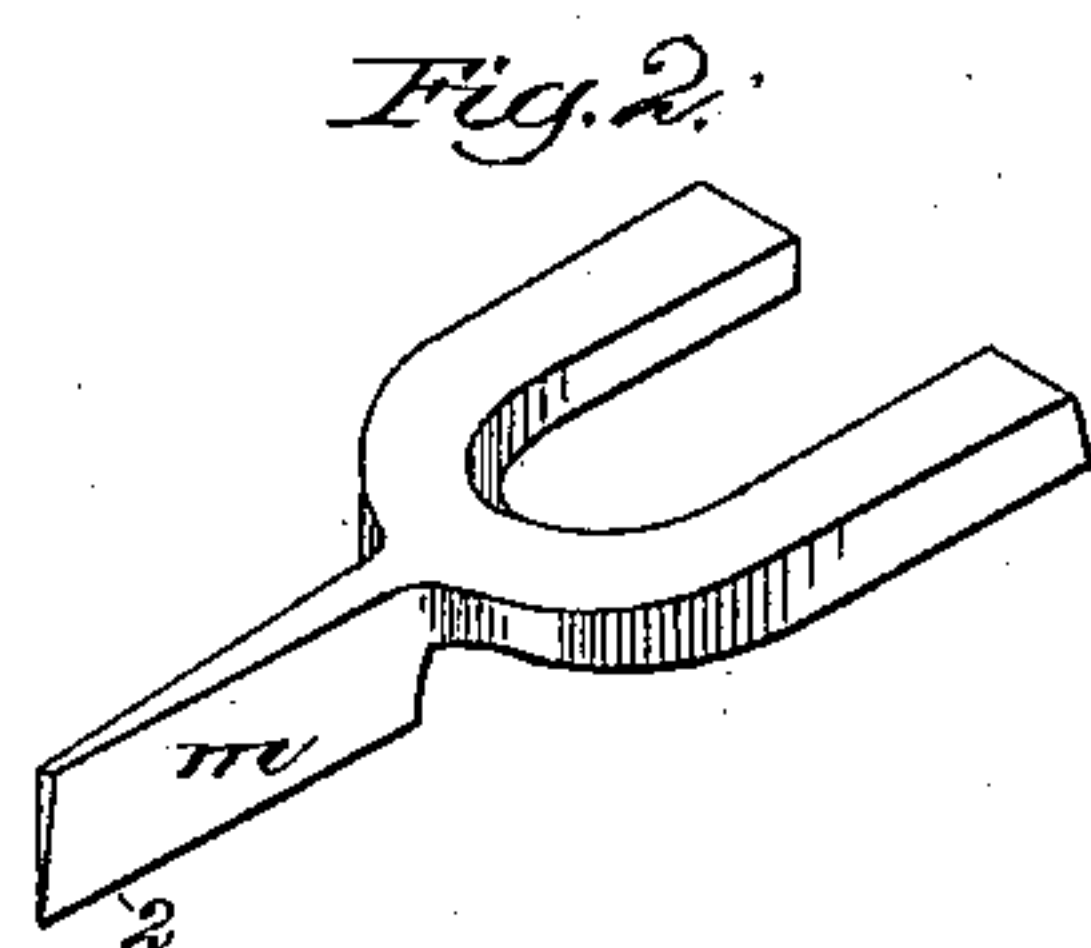
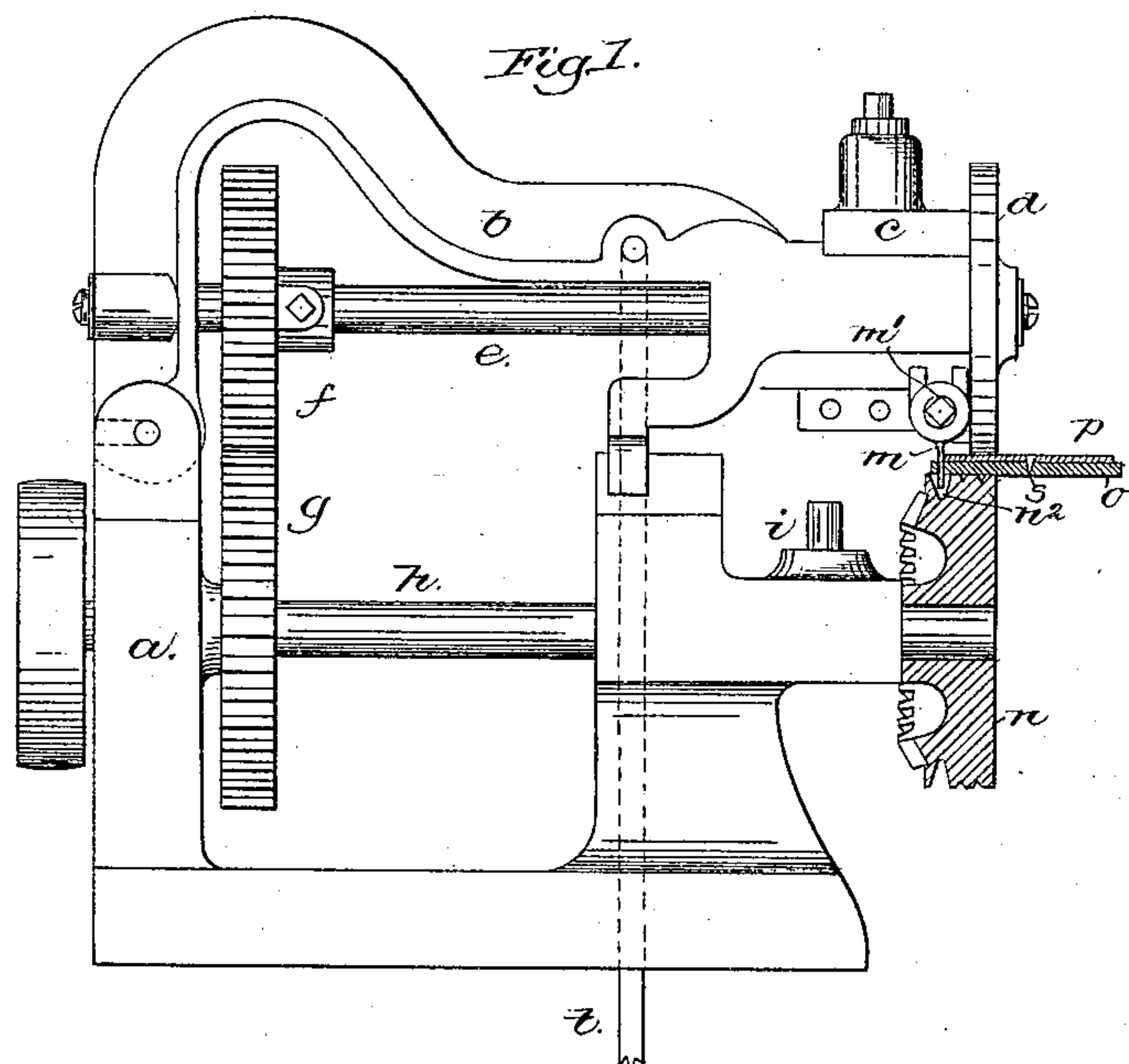
(No Model.)

S. F. PACKARD.

CHANNELING AND SOLE SHAPING OR ROUNDING MACHINE.

No. 277,056.

Patented May 8, 1883.



Witnesses.

Fred A. Prill.

John F. C. Printert

Inventor:

S. Fremont Packard  
by Crosby & Gregory  
attys.

# UNITED STATES PATENT OFFICE.

S. FREMONT PACKARD, OF BROCKTON, MASSACHUSETTS.

## CHANNELING AND SOLE SHAPING OR ROUNDING MACHINE.

SPECIFICATION forming part of Letters Patent No. 277,056, dated May 8, 1883.

Application filed February 5, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, S. FREMONT PACKARD, of Brockton, county of Plymouth, State of Massachusetts, have invented an Improvement in Channeling or Sole Shaping or Rounding Machines, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

The object of my invention is to enable a channeling-machine of usual construction to be readily converted into a sole shaping or rounding machine, or a machine to cut a sole from a piece of sole-leather, it having attached to it a suitable sole-shaped pattern-plate.

In this my invention I have provided the usual feeding-wheel with a suitable space or groove to receive an edge-cutting blade secured to the head of the machine in place of the usual channel-cutter.

Figure 1 represents in side elevation the principal parts of a channeling-machine of usual construction; Fig. 2, a detail showing the edge-cutting knife; and Fig. 3, a view of a piece of leather to be cut into sole shape, it having a metal pattern-plate applied to it.

The frame *a*, pivoted arm *b*, head *c*, presser-wheel *d*, shaft *e*, gears *f g*, shaft *h*, and stud *i* are substantially as in United States Patents Nos. 42,211 and 60,807, to which reference may be had. The stud *i*, as shown in the said patents, receives a horizontally-rotating work-supporting wheel, which, when the channeling-machine described and shown in the said patents is to be used for sole shaping and rounding, is removed from the said pin. The edge-trimming blade *m*, having a forked shank, as shown in the drawings, is attached to the usual head, *c*, by the usual screw, *m'*, and extends down vertically below the periphery of the feeding-wheel *n*, attached to and rotated by the shaft *h*. To enable this blade *m* to cut

entirely through the leather *o*, resting on the feed-wheel *n*, and to properly guide and steady the said blade, I have provided the said feed-wheel with an annular groove or recess, *n<sup>2</sup>*, into which the lower end of the blade enters, as in Fig. 1, so that the leather *o*, forced against the cutting-edge 2 of the said blade, will be cut into shape to correspond with the metal pattern-plate *p*, confined temporarily to the leather *o* by suitable pins or nails, *s*, the said blade following the edge of the plate. The presser-wheel *d* rolls over the pattern-plate. The rod *t*, common to the channeling-machine referred to, will in practice have a spring applied to it to hold the arm and wheel *d* down on the plate *p* with a yielding pressure. For channeling, it is only necessary to remove the blade *m*, and apply the usual channel-knives to the head *c* and the horizontal work-supporting wheel to the stud *i*.

I claim—

1. In a machine to shape or round soles, the arm *b*, the knife *m*, and the feed-wheel having a space or recess to receive the lower end of the said knife, combined with a presser to act on the pattern-plate and hold the leather against the feed-wheel, substantially as described.

2. The rotating feed-wheel *n*, provided with a space or recess, *n<sup>2</sup>*, below its periphery, combined with the blade *m* and pivoted arm *b* to hold it, the lower end of the blade *m* being held in the said recess, to operate all substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

S. FREMONT PACKARD.

Witnesses:

CHARLES W. SUMNER,  
ED L. EMERSON.