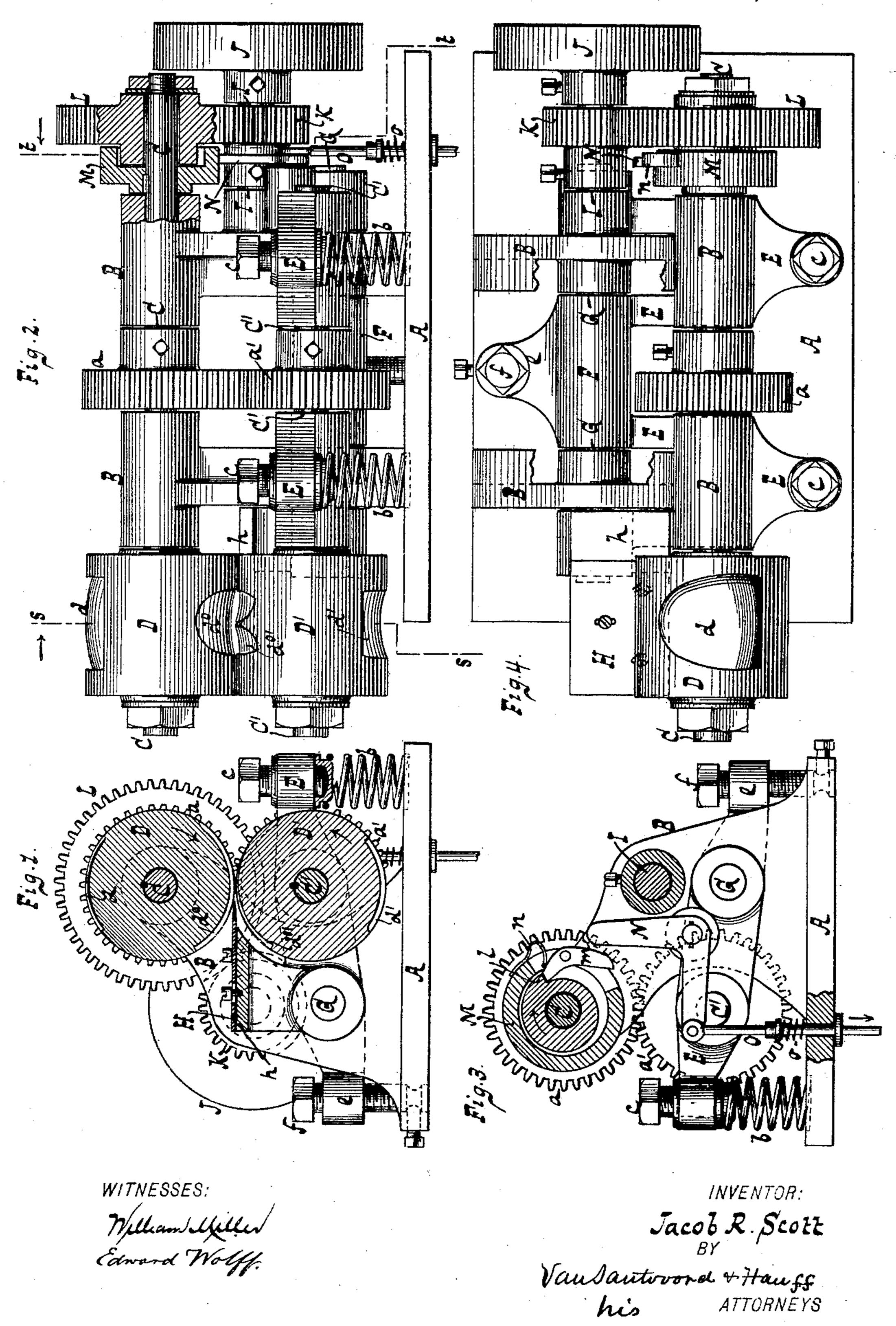
J. R. SCOTT.

MACHINE FOR SKIVING HEEL LIFTS.

No. 462,594.

Patented Nov. 3, 1891.



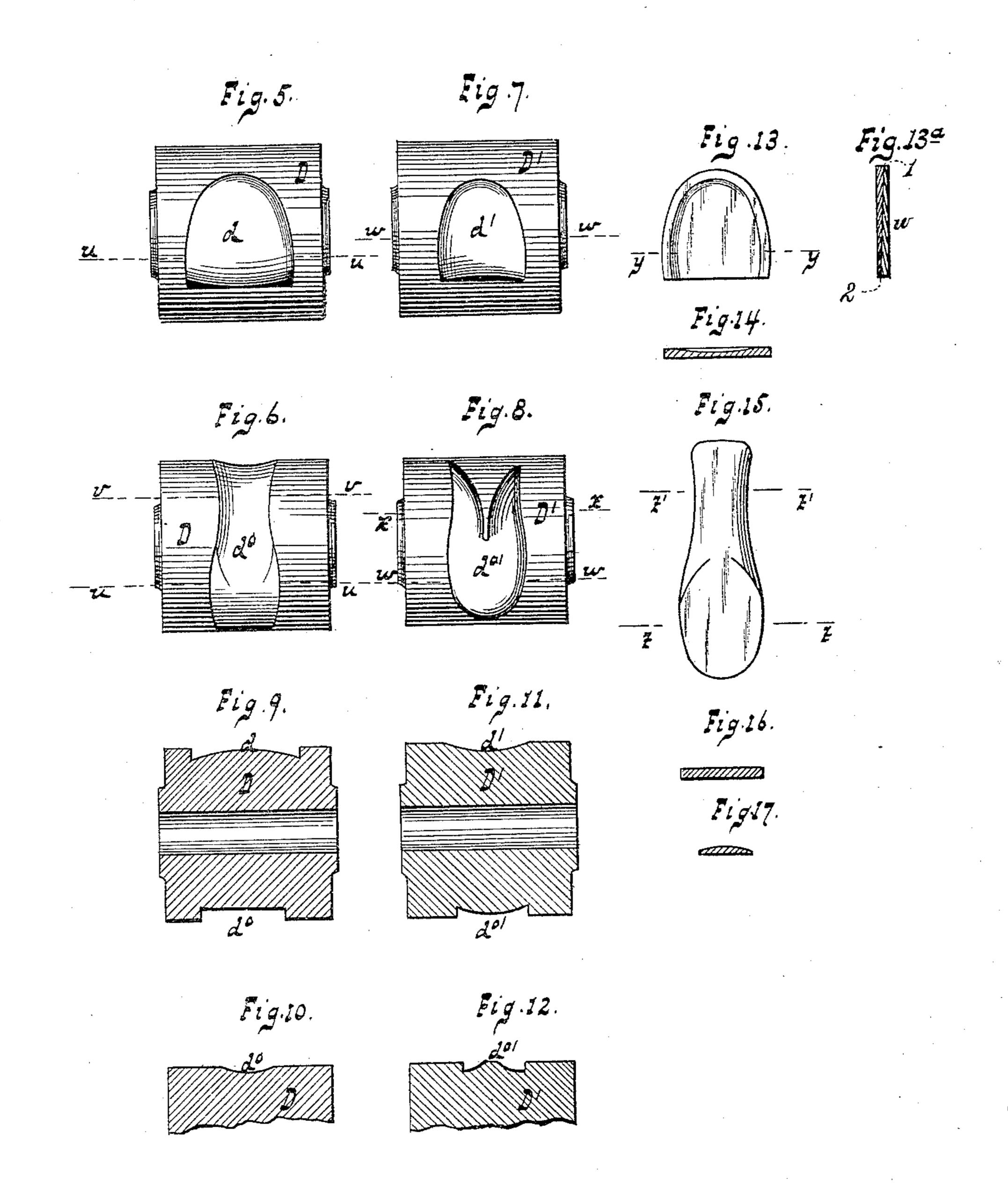
THE HORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

(No Model.)

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WITNESSES:

William Miller Edward Wolff.

Jacob R. Scott.

BY

Van Saution of ATTORNEYS

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

United States Patent Office.

JACOB R. SCOTT, OF NEW YORK, N.Y.

MACHINE FOR SKIVING HEEL-LIFTS.

SPECIFICATION forming part of Letters Patent No. 462,594, dated November 3, 1891.

Application filed July 2, 1891. Serial No. 398,269. (No model.)

To all whom it may concern:

Be it known that I, JACOB R. SCOTT, a citizen of the United States, residing at New York, in the county and State of New York, 5 have invented new and useful Improvements in Skiving-Machines, of which the following is a specification.

This invention relates to certain improvements in skiving-machines, as pointed out in ro the following specification and claims, and illustrated in the accompanying drawings, in which—

Figure 1 represents a transverse vertical section in the plane s s, Fig. 2. Fig. 2 is a 15 side elevation, partly in section. Fig. 3 is a transverse vertical section in the plane t t, Fig. 2. Fig. 4 is a plan or top view. Figs. 5 may be used in my machine. Fig. 9 is a lon-20 gitudinal section of one of the dies in the plane u u, Figs. 5 and 6. Fig. 10 is a partial section in the plane v v, Fig. 6. Fig. 11 is a longitudinal section in the plane w w, Figs. 7 and 8. Fig. 12 is a partial section in the 25 plane x x, Fig. 8. Fig. 13 is a face view of a lift for boot and shoe heels produced on my machine. Fig. 13^a is a longitudinal section of a blank for a lift, showing the line of the cut. Fig. 14 is a transverse section in the 30 plane y y, Fig. 13. Fig. 15 is a face view of an insole produced on my machine. Fig. 16 is a transverse section in the plane zz, Fig. 15. Fig. 17 is a similar section in the plane z' z', Fig. 15.

In the drawings, the letter A designates the bed-plate, from which rise two standards B B, which form the bearings for the shaft C. On this shaft is firmly mounted the roller D, which contains the half-die cavities d, and 40 said shaft C is geared by cog-wheels a a with | shown in Figs. 13 and 14, while the portion wa counter-shaft C', which carries the roller D' and which has its bearings in two arms E E, which extend from a hub F, situated between the standards B B, Fig. 4, and mounted upon 45 a rod G, supported in said standards. The front ends of the arms E E are exposed to the action of springs b b, which have a tendency to force the roller D' up in contact with the roller D. From the hub F extends an arm e, so which carries a screw f for regulating the distance between the rollers D D'. If this screw i

is screwed in, the arms E E are depressed and the roller D'is prevented from rising up in close contact with the roller D. The roller D'contains the half-die cavities d', which co-operate 55 with the half-die cavities d in the roller D. For instance, in order to produce lifts for boot and shoe heels (see Figs. 13 and 14) the roller D is provided with a die-cavity d, Figs. 5 and 9, the contours of which conform to the lift 60 and the bottom of which is convex, Fig. 9, so as to force the blank into a die-cavity d'formed in the roller D', Figs. 7 and 11. When a blank is placed into the die-cavities d d' and the rollers D D' are caused to revolve in the 65 direction of the arrows marked thereon in Fig. 1, the blank is brought in contact with a leather splitting or dividing knife H, Figs. 1 to 8, inclusive, are elevations of dies which | and 4, and those portions of the blank which project beyond the surface of the roller D are 70 cut away, so that by each revolution of the rollers D D' a lift for a boot or shoe heel or any other article of a similar nature can be produced. For instance, in Figs. 15, 16, and 17 I have shown the insole for a boot or shoe, 75 and in Figs. 6, 8, 10, and 12 I have shown the dies $d^{\circ} d^{\circ\prime}$ in the rollers D D', which are required in order to produce such insole from a suitable blank.

> In Fig. 13^a I have shown a section of the 8c blank for forming a lift for boot and shoe heels. This blank fits the die-cavity d of the roller D, Figs. 5 and 9, and this die-cavity is of such a depth that when the blank is placed into it the portion w, Fig. 13^a, projects beyond 85^a the surface of the roller D, and a portion of said projecting portion enters the die-cavity d' in the roller D', Figs. 7 and 11. As the rollers revolve, the blank is split in the line 1 2, Fig. 13a, and a lift is formed, such as 90 of the blank is waste. The knife H extends between the rollers D D', as shown in Fig. 1, and it may be firmly secured to a bracket h, which is formed on one of the standards B, or 95 a movable knife may be used. The rollers D D' receive their motion from a drive-shaft I, which carries a belt-pulley J and a pinion K, which gears into a cog-wheel L, mounted loosely on the shaft C. The hub of this cog- 100 wheel extends into a clutch M, which is firmly mounted on the shaft C and which carries a

 $\log m$, which, when free to follow the action of a spring n, Fig. 3, engages a tooth l, formed on the hub of the cog-wheel L. When the dog m is in engagement with this tooth, the 5 cog-wheel M is thrown in gear with the shaft C and the rollers D D' are set in motion. The dog m can be thrown out of gear with the hub of the cog-wheel L by any suitable means—such, for instance, as a bell-crank leso ver N, which connects by a rod O, Fig. 3, with a treadle, (not shown,) so that whenever said rod is forced downward the dog m is thrown out of gear with the hub of the cogwheel L and the movement of the rollers D 15 D' is stopped, and when the rod O is free to follow the action of the spring o the dog m is thrown in gear with the cog-wheel L and the rollers D D' are set in motion.

What I claim as new, and desire to secure

20 by Letters Patent, is—

1. In a skiving-machine, the combination of the drive-shaft I, the counter-shaft C', having a gear a' and carrying the lower die-roller D', the shaft C, geared to the drive-shaft, provided with the upper die-roller D, and having a gear a engaging the gear of the counter-shaft, the rod G, the hub F, arranged on the

rod and having the arms E, carrying the counter-shaft, and the arms e, provided with a set-screw f, the springs b, located beneath the 30 arms which support the counter-shaft for pressing the lower die-roller upwardly against the upper die-roller, and the knife H, extending between the two die-rollers, substantially as described.

2. In a skiving-machine, the combination, with the knife H, the shafts C C', and the dierollers D D', mounted thereon, of the driving-shaft I, the cog-wheel L, mounted loosely on the shaft C and geared with the driving-shaft. 40 the clutch M, mounted firmly on the shaft C and carrying the spring-actuated dog m, a tooth l, formed on the hub of the cog-wheel L in position to engage the dog m, and means for throwing the dog out of gear with the cog-45 wheel, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing

witnesses.

JACOB R. SCOTT.

Witnesses:

J. Van Santvoord,

E. F. KASTENHUBER.