

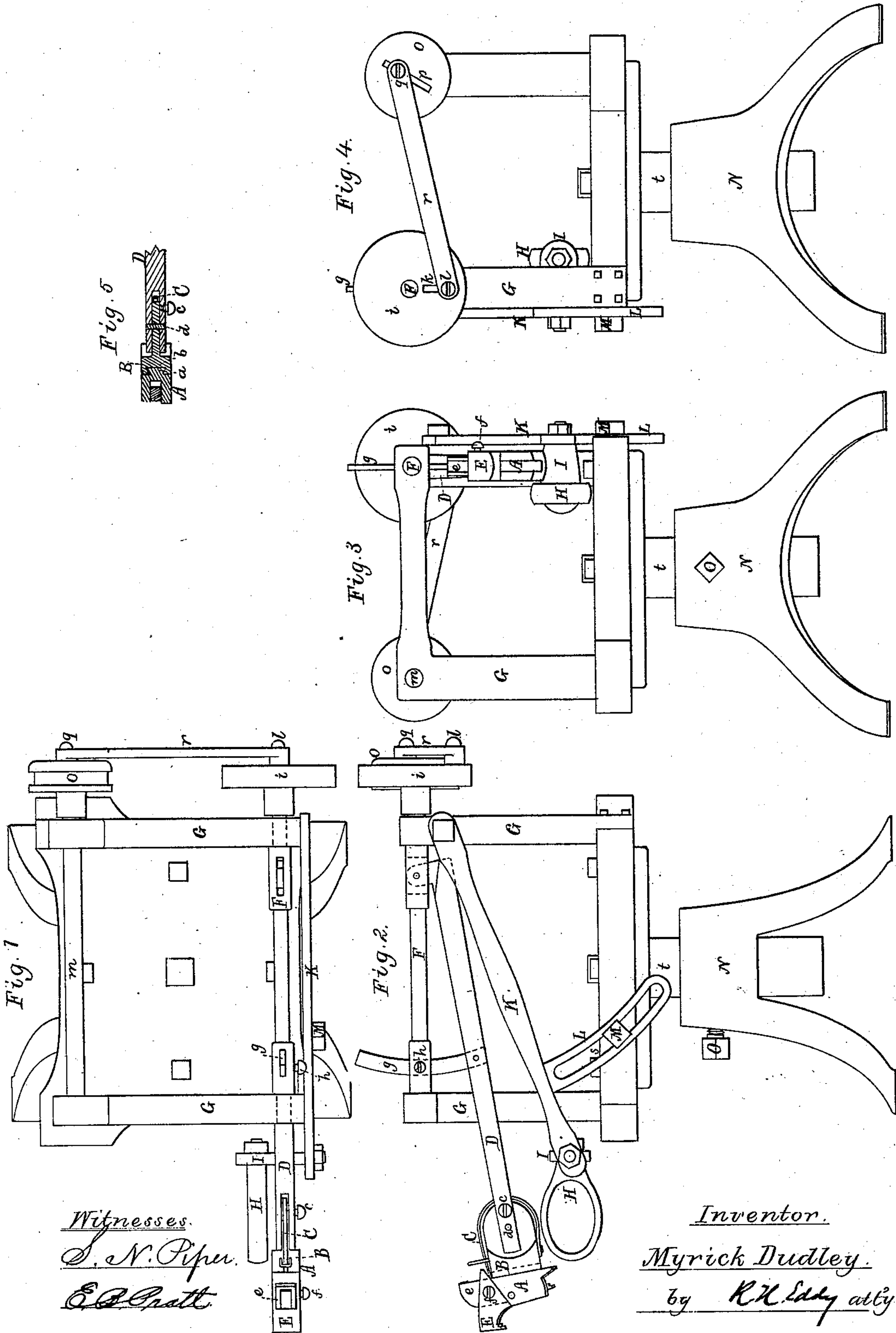
(No Model.)

M. DUDLEY.

MACHINERY FOR BURNISHING THE SOLE EDGES OF BOOTS AND SHOES.

No. 255,152.

Patented Mar. 21, 1882.



Witnesses.

S. N. Piper.

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Myrick Dudley.

by R. H. Eddy atty

# UNITED STATES PATENT OFFICE.

MYRICK DUDLEY, OF LYNN, MASSACHUSETTS, ASSIGNOR TO HIMSELF AND  
RUEL R. NICKERSON, OF SAME PLACE.

MACHINERY FOR BURNISHING THE SOLE-EDGES OF BOOTS AND SHOES.

SPECIFICATION forming part of Letters Patent No. 255,152, dated March 21, 1882.

Application filed November 14, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, MYRICK DUDLEY, of  
Lynn, of the county of Essex and State of Mas-  
sachusetts, have invented a new and useful  
5 Improvement in Machinery for Finishing or  
Burnishing the Edges of the Fore Parts and  
Shanks of Shoes; and I do hereby declare the  
same to be described in the following specifi-  
cation and represented in the accompanying  
10 drawings, of which—

Figure 1 is a top view, Fig. 2 a front eleva-  
tion, Figs. 3 and 4 end views, of a machine  
embodying my invention, the nature of which  
is hereinafter explained, and particularly set  
15 forth, especially in the claims as presented.  
Fig. 5 is hereinafter explained.

In such drawings, A denotes a sole-edge fin-  
isher or burnisher, which may be supposed to  
be substantially like that described in Letters  
20 Patent No. 246,944, granted September 13, 1881,  
on an invention made by me. Such finisher  
is connected with a carrier, B, so as to slide  
up and down on and relatively thereto, such  
adaptation being by means of a dovetailed  
25 tongue, *a*, projecting from the one into a dove-  
tailed groove, *b*, in the other, as shown in Fig.  
5, which is a transverse section of the finisher  
and its carrier. A spring, C, fixed to the car-  
rier and arranged therewith, as shown, bears  
30 on the upper part of the finisher, and thus af-  
fords an elastic support for the said finisher.  
The carrier projects into and is pivoted to a  
forked arm, D, which has in one of its prongs  
a set-screw, *c*, which, arranged as represented,  
35 with the joint-pin *d* of the carrier and arm,  
serves to clamp the carrier to the arm. By  
means of the carrier applied, as described, to  
the arm the inclination of the fore part or  
edge finisher can be varied more or less in the  
40 plane of the carrier. From the upper part of  
the said finisher a tenon, *e*, projects through a  
mortise in a shank burnisher or finisher, E,  
arranged with the finisher A, as represented,  
and held thereto by a set-screw, *f*, screwed into  
45 the said finisher E and against the said tenon.  
The forked arm D, at its rear part, is jointed  
to a rocker-shaft, F, supported by a frame, G.  
From the forked arm a curved bar, *g*, extends

through the rocker-shaft, the latter being pro-  
vided with a clamp-screw, *h*, to bear against 50  
the bar *g*. By adjusting the shaft by means of  
the bar *g* and screw *h* nearer to or farther from  
the rocker-shaft I can vary the extent of vi-  
bratory motion of the finisher imparted to it  
by the shaft, which, when in operation, has a 55  
reciprocating rotary movement.

Fixed on the rocker-shaft F is a disk, *i*, pro-  
vided with a radial slot, *k*, having in it a crank-  
pin, *l*, which should be adjustable radially in  
the said slot. 60

On a driving-shaft, *m*, arranged, as shown, in  
the frame G, there is fixed a pulley, *o*, pro-  
vided with a diametric slot, *p*, having to it a  
crank-pin, *q*, adjustable radially in the slot.  
A connecting-rod, *r*, turns on the said two 65  
crank-pins. The two shafts F and *m* are sup-  
ported in bearings in the frame G.

H is a finger-rest, adapted to swivel trans-  
versely of it in an ear, I, projecting from a  
radial arm, K. This arm K, pivoted at its rear 70  
part to the frame G, has a curved and slotted  
bar, L, extending upward from it. A clamp-  
screw, M, goes through the slot *s* of the bar L  
and screws into the frame G, from which a  
tenon, *t*, projects into or through a mortise in a 75  
stand, N. A set-screw, O, screwed into the  
stand and against the tenon, serves to confine  
the tenon at any altitude in the stand.

By having the crank-pins *l* and *q* adjustable  
nearer to or farther from the axes of the shafts 80  
F and *m* I can vary the extent of the recip-  
rocating motion of the rocker-shaft, and con-  
sequently that of the edge-finisher, at any in-  
clination of the arm D to the shaft F. Each  
of the crank-pins *l* and *q* is to be supposed to 85  
be provided with means of clamping it in any  
position in which it may be adjusted in its sus-  
taining-slot.

As a shoe while being operated on by either  
of the finishers is to be supported by a jack, it 90  
will be seen from what has been hereinbefore  
explained that I have means of not only ad-  
justing either finisher into its due relation to  
the shoe, but of imparting a vibratory motion  
to such finisher and regulating the extent of 95  
such vibration, as circumstances may require;



and, besides, I have means of adjusting the finger-rest in a vertical plane and of turning it laterally, in order to bring it into a convenient position relatively to the shoe.

5 What I claim as my invention is as follows, viz:

1. The combination of the carrier B and its spring C, with the fore-part finisher A, adapted thereto, as described, and with the shank finisher E, supported by or fixed to the finisher A, all being substantially as set forth.

15 2. The combination of the finisher-carrier B and the rocker-shaft F with the arm B, applied to them, substantially as described, the said shaft and arm having clamp-screws attached to them, as explained.

3. The combination of the connecting-rod *r* and the driving-pulley *o* and disk *i*, provided with crank-pins *l* and *q*, adjustable in them, as set forth, with the shafts *m* F and with the 20 finisher-carrier supporting-arm D, applied to the rocker-shaft F, so as to be adjustable therewith, substantially as specified.

4. The combination of the ear I and the radial arm K, its slotted bar L, and clamp- 25 screw M with the finger-rest H, all being arranged substantially as set forth.

MYRICK DUDLEY.

Witnesses:

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