

(No Model.)

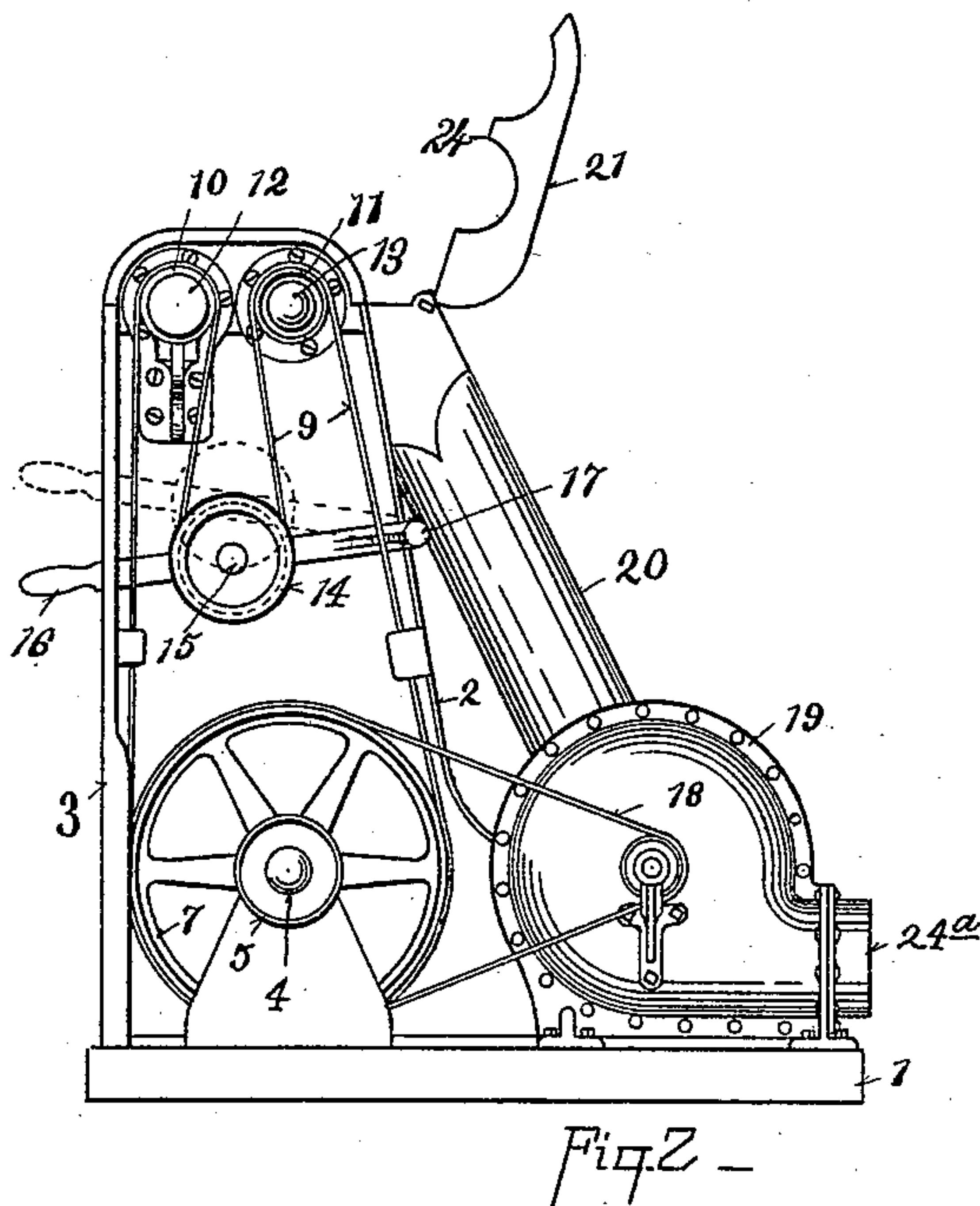
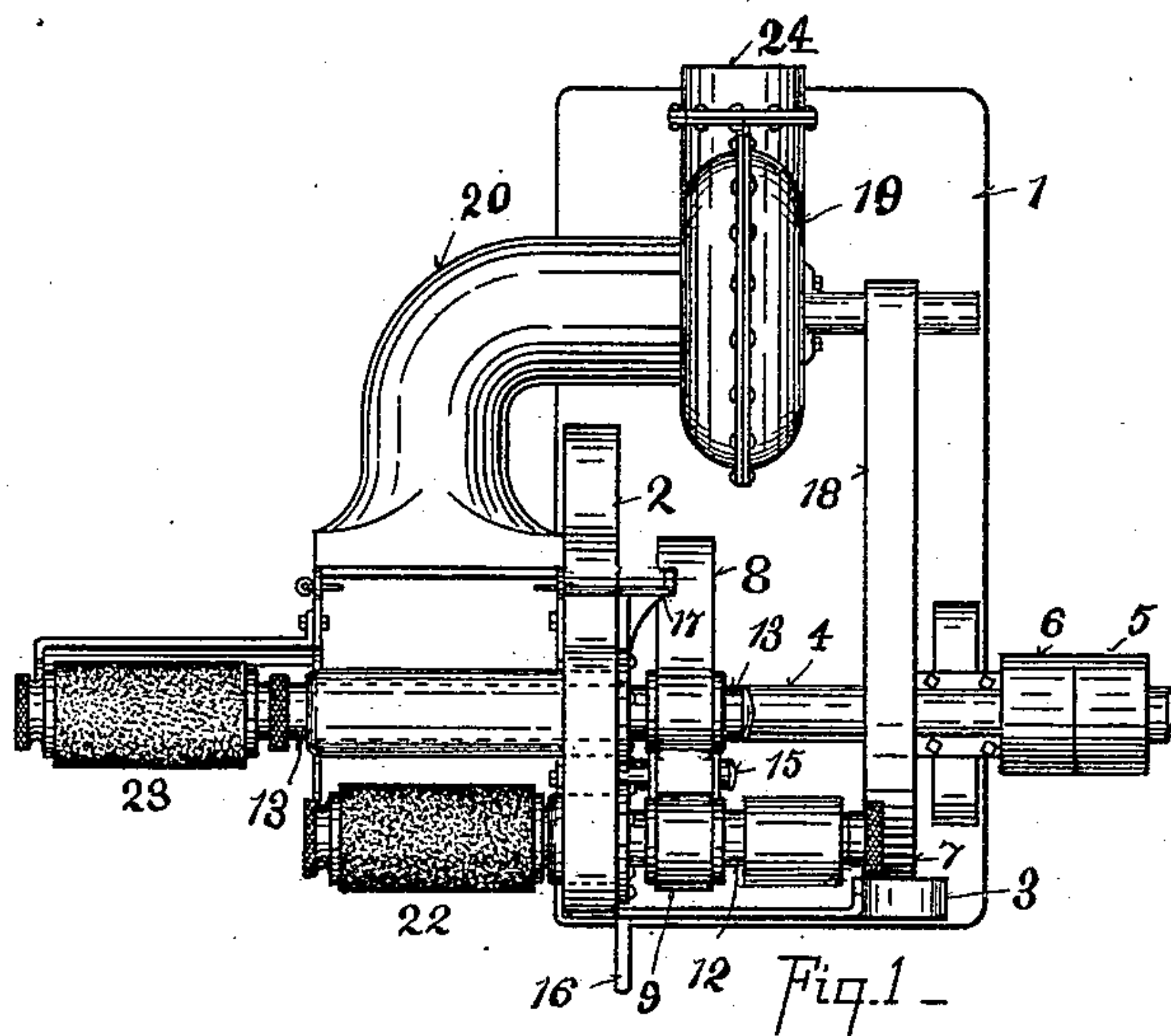
2 Sheets—Sheet 1.

S. ROSS, Jr.

SAND PAPER MACHINE FOR BOOTS OR SHOES.

No. 426,860.

Patented Apr. 29, 1890.



Witnesses

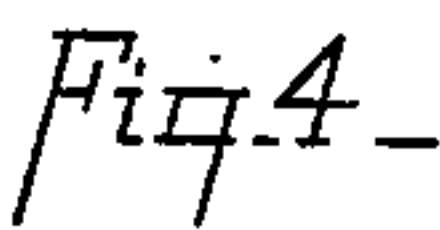
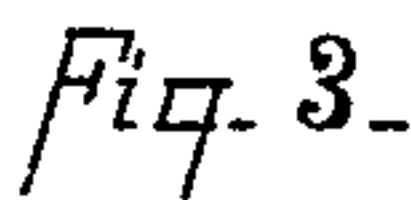
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Inventor

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2 Sheets—Sheet 2.

Patented Apr. 29, 1890.



Inventor:

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UNITED STATES PATENT OFFICE.

SIMON ROSS, JR., OF CINCINNATI, OHIO.

SAND-PAPER MACHINE FOR BOOTS OR SHOES.

SPECIFICATION forming part of Letters Patent No. 426,860, dated April 29, 1890.

Application filed October 31, 1889. Serial No. 328,761. (No model.)

To all whom it may concern:

Be it known that I, SIMON ROSS, JR., a citizen of the United States, and a resident of Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Sand-Paper Machines, of which the following is a specification.

In machines for sandpapering such articles as the soles of boots and shoes, where two grades or degrees of sandpapering are required, it is usual for the operator or attendant to lay down the boot or shoe or pass from one side of the machine to the other, or otherwise change his position in the sandpapering operation.

The object of my invention is to avoid such objections and provide a novel sandpapering-machine wherein a pair of sandpapering-rolls is arranged at one side of the machine within a single hinged hood, and the attendant can effect the desired operations without changing his position.

To such end my invention consists in the features of construction and the combination or arrangement of parts hereinafter described, and specifically set forth in the claims, reference being made to the accompanying drawings, in which—

Figure 1 is a top plan view of my improved machine. Fig. 2 is a side elevation of the same. Fig. 3 is a front elevation; and Fig. 4, a sectional view taken on the line *x x*, Fig. 3.

In the drawings, the numeral 1 represents the base of the machine; 2, an L-shaped frame, and 3 the front side portions, which are attached to the base. The front plate is for protecting the workman from coming in contact with the machinery, and to prevent the escape of oil on the operator or shoes.

4 represents the main driving-shaft; 5, a loose pulley, and 6 a tight pulley mounted on said shaft.

7 represents a pulley (see Fig. 3) for driving a blower.

8 represents the driving-pulley, also keyed upon shaft 4 for driving the rolls.

9 represents the belt passing over pulley 8, thence over pulleys 10 11, which are keyed to the spindles 12 and 13.

14 represents an idler-pulley journaled on stud-shaft 15, supported upon an arm 16, which is pivoted at 17 to the side of the frame.

Said idler-pulley is moved by the handle 16 up or down to strain or slacken the belt. When it is desired to start the machine in operation, the belt is turned by moving down the pulley, and when the pulley is pulled up the operation of the machine is stopped.

18 represents the band for driving the blower, which is incased in case 19.

20 represents a pipe leading from the blower-case to the hood 21, the latter being hinged to the top of said pipe 20, as shown in Fig. 2. Said hood when drawn-down partially covers the roll. The spindle 13 is longer than the spindle 12, and these spindles support and carry the sandpapering-rolls 22 23. The spindle-shaft 13 must project through the hood-opening, and the roll 23 must be supported a considerable distance beyond the side of the frame, for the latter would tremble unless it was properly sustained. I have therefore made a sleeve-bearing projecting from the side of the frame through the hood 21, in which said shaft 13 journals, which prevents the roll 23 from vibrating. The hood 21 is hinged over the draft or blast tube, so that it can be thrown back to allow the sand-paper to be removed and replaced on the rolls 22 23. The shape of the upper end of the draft tube or pipe 20 and of the hood covering the same is such as to allow the blast around roll 23 to draw endwise into the blast-pipe 20. The hood is of a counterpart shape, and is made with a tongue 24 to project down between the spindles 12 13, so as to make a tight casing, and yet allow the blast to take out the dust from both rolls.

The operator without changing his position can use either roll, and the dust detached by the sand-paper is drawn in by the blower from the hood through the pipe 20 and carried off to the discharge-pipe 24^a.

The frame of the machine is L-shaped, and the driving mechanism fits within this half-hollow frame, while the sand-paper rolls and the hood are located at the opposite side thereof, as shown in Fig. 3.

What I claim is—

1. A sandpapering-machine consisting of a rigid frame, a pair of spindles carrying two sand-paper rolls, which project one in advance of the other at one side of the frame, a single swinging hinged hood, which partially encir-

cles and covers both sand-paper rolls, and a draft tube or pipe for carrying off the dust from both sand-paper rolls, substantially as described.

5 2. A sandpapering-machine consisting of a rigid frame, a pair of spindles carrying two sand-paper rolls, which project one in advance of the other at one side of the frame, a swinging hinged hood, which partially encircles and
10 covers both sand-paper rolls, a draft tube or pipe for carrying off the dust from both sand-paper rolls, a main driving-shaft, a belt connecting said shaft with the two roll-carrying spindles, and an adjustable arm carrying an
15 idler-pulley, which engages the belt, substantially as described.

3. A sandpapering-machine consisting of a rigid frame, a pair of sand-paper rolls, and a single hinged dust-hood arranged at one side
20 of the frame, a pair of spindles carrying the sand-paper rolls, a main driving-shaft, and

driving mechanism arranged at the side of the frame opposite the sand-paper rolls and the hinged hood, and consisting of a belt connecting the driving-shaft with the spindles 25 and a pivoted arm carrying an idler-pulley engaging the belt, substantially as described.

4. In a sandpapering-machine, the combination of the main driving-shaft, the spindles 12 13, carrying the sand-paper rolls 22 23, the 30 adjustable arm 16, carrying the idler-pulley 14, and the belt 9, connecting the driving-shaft with the spindles and engaged by the idler-pulley, whereby the sand-paper rolls are stopped and started by the adjustment of the 35 said arm, substantially as described.

In testimony whereof I have hereunto set my hand.

SIMON ROSS, JR.

Witnesses:

C. W. MILES,
T. SIMMONS.