(No Model.)

# T. B. MARSHALL.

## SANDPAPERING AND POLISHING MACHINE.

No. 350,689. Patented Oct. 12, 1886.

Fig 1.

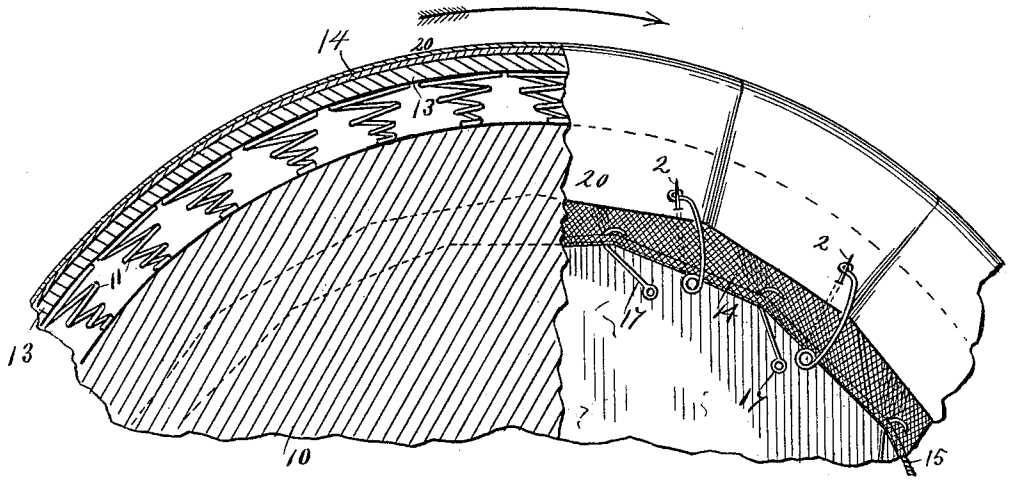



Fig 2

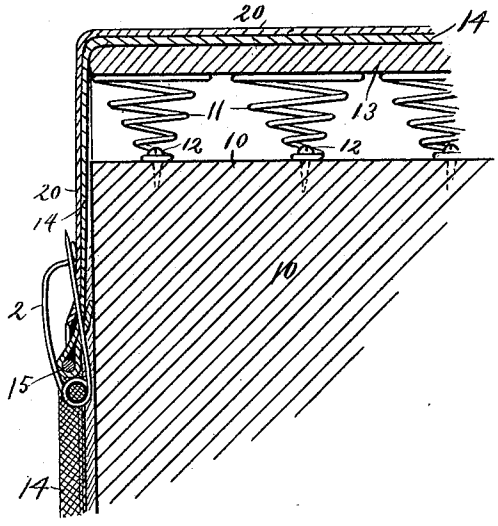
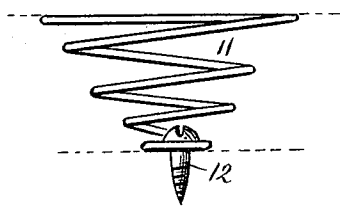



Fig. 3.




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# UNITED STATES PATENT OFFICE.

THOMAS BRAINERD MARSHALL, OF SIDNEY, OHIO.

## SANDPAPERING AND POLISHING MACHINE.

SPECIFICATION forming part of Letters Patent No. 350,689, dated October 12, 1886.

Application filed June 26, 1886. Serial No. 206,309. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS BRAINERD MARSHALL, of Sidney, in the county of Shelby and State of Ohio, have invented a new and Improved Sandpapering and Polishing Machine, of which the following is a full, clear, and exact description.

My invention relates to the construction of a device whereby a flat, oval, and concave surface may be sandpapered and polished with the grain of the wood; and to the end named the invention consists of a wheel upon the peripheral face of which there are arranged springs that are covered with felting and sacking, above which there is placed a band of sand-paper or a sand-band, the sacking and sand-paper or sand-band being secured in any manner desired to the said face of the wheel.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the figures.

Figure 1 is a side view of a portion of a wheel constructed in accordance with the terms of my invention, one-half of the portion illustrated being shown in section. Fig. 2 is a cross-sectional view of a portion of the device upon an enlarged scale, and Fig. 3 is a full-sized view of one of the springs employed to form the yielding bed upon which the felt is arranged.

In constructing such a device as the one illustrated in the drawings above referred to, I provide a wheel of suitable size—say twenty-four inches in diameter—and to the peripheral face of this wheel (a portion of which is shown at 10) I secure springs 11, of the form best shown in Fig. 3, these springs being secured to the peripheral surface of the wheel by screws 12 in regular rows, or they may be staggered, the only requirement being that the springs shall be arranged as close together as is possible. A stratum or band of felt, 13, is placed about the springs and held in position by a strip of sacking or canvas, 14, the edges of said strip being preferably corded, as best shown at 15. This strip of sacking is held to place and prevented from creeping by hooks 17, that are secured to the side of the wheel by small screws or nails; or in certain cases the sacking might be tacked directly to the sides of the wheel.

The sand paper or band is shown at 20, and is applied so as to rest smoothly upon the peripheral surface of the wheel after such wheel has been treated as described, the edges of the paper or strip being bent over and crimped and secured to the sacking 14 by safety-pins 2, or by any other convenient and suitable attaching device.

The wheel 10 is arranged to be mounted upon a revolving shaft or spindle, and the wood to be smoothed and polished may be brought to bear upon the surface of the rapidly-revolving wheel 10.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with a wheel, of springs secured to the peripheral face thereof, a band of felt resting upon the springs, and a strip of canvas resting upon the felt, and means for securing the canvas to the wheel, substantially as herein shown and described.

2. The combination, with a wheel, of springs secured to the peripheral face thereof, felting 13, arranged upon the springs, sacking 14, held to the wheel by hooks 17, and an outer layer of sand-paper or cloth held to the sacking by proper connecting devices, substantially as described.

THOMAS BRAINERD MARSHALL.

Witnesses:
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