

No. 37,592.

PATENTED FEB. 3, 1863.

F. SAUTERMEISTER.
MACHINE FOR SPREADING JAPAN, &c., OVER FABRICS.

Fig. 1.

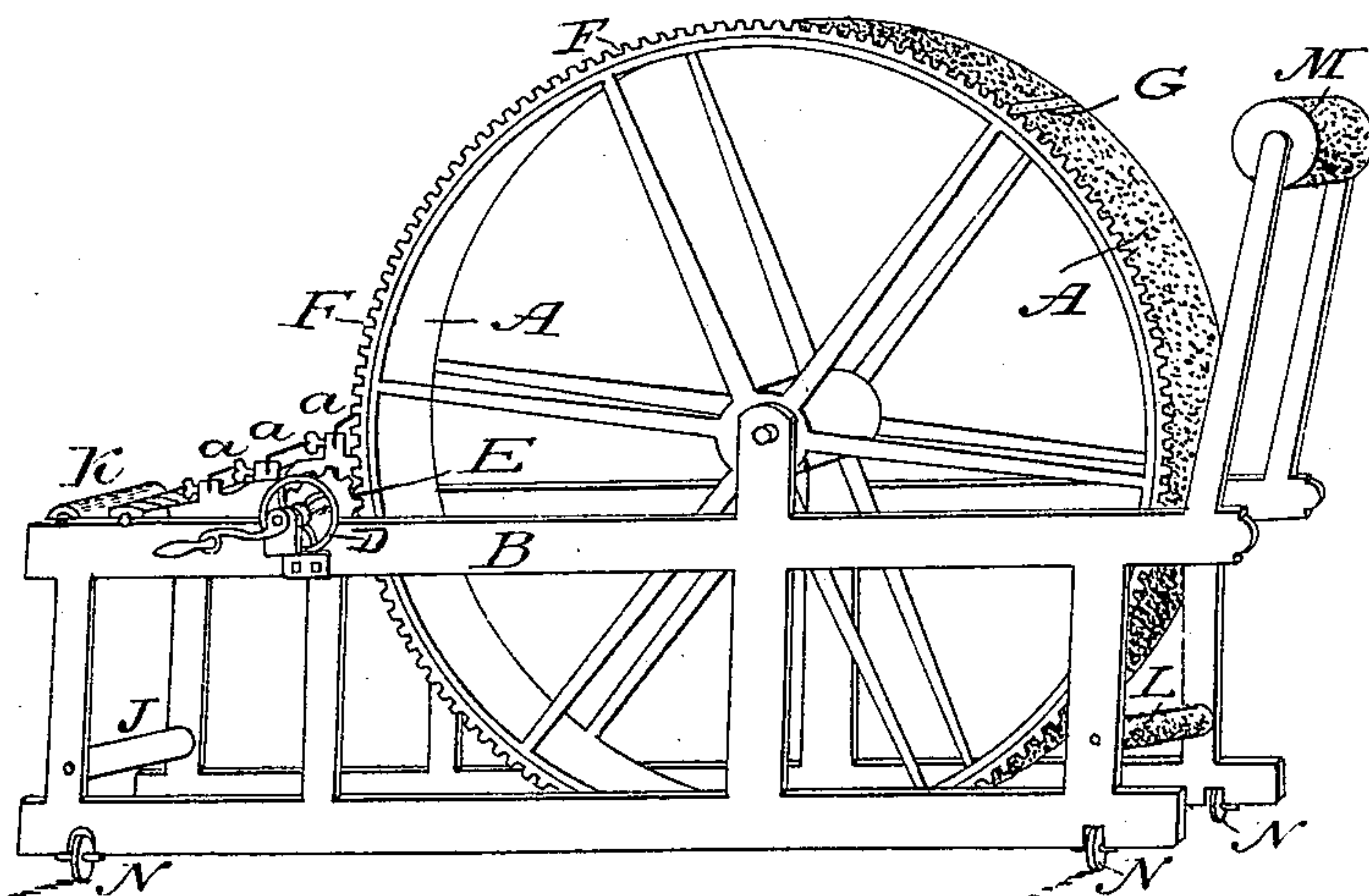
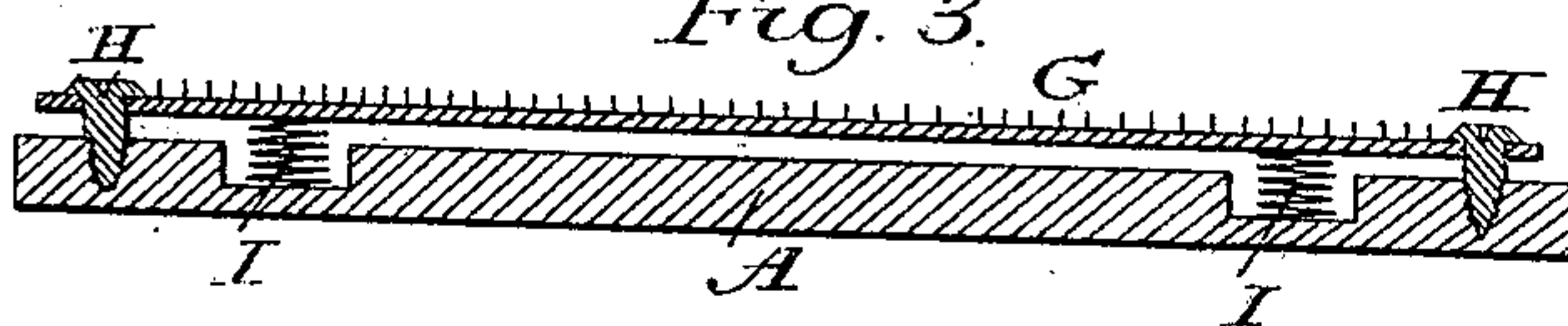


Fig. 2.



Fig. 3.



Witnesses:
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IMPROVED MACHINE FOR SPREADING JAPAN, &c., OVER FABRICS.

Specification forming part of Letters Patent No. **37,592**, dated February 3, 1863.

To all whom it may concern:

Be it known that I, FERDINAND SAUTERMEISTER, of the city of Newark, in the county of Essex and State of New Jersey, have invented certain improvements in the machinery used for moving the cloths in the distribution of japan or paint over the surface thereof; and I do hereby declare the following to be a full and exact description of the same, reference being herein had to the drawings accompanying this specification, and which make part of the same.

The nature of my invention or improvement consists in adapting a cylinder or drum to the conveyance of the cloth, so as to dispense with the old method of sewing the ends of the cloth together, which had to be done for the convenience of stretching the cloth to make it receive the japan or paint while the piece was revolving over a roller at each end of its length when sewed.

In the drawings, Figure 1 is a view in perspective of the whole machine. Fig. 2 is the ordinary distributing-bar, technically termed "the doctor." Fig. 3 is an enlarged view of a bar with pins, of which several are inserted in the face of the drum, each resting on springs, as shown.

The same letters refer to the same part in each figure.

A large drum or cylinder, A, of width sufficient on its face for any breadth of cloth that may be used to japan or paint, is mounted on a strong frame, B, and is caused to revolve by means of either the crank C or by a belt on the pulley D, which are attached to a short shaft, on the end of which is the pinion E, working in the gearing F on the edge of the drum or cylinder A. The surface of the drum A is roughened by sand, gravel, pounded glass, or any like substance, which holds the cloth in adherence to the face of the drum, so as to move it along as the drum revolves. To insure motion to hard-woven, smooth cloths, bars with a row or rows of pins are inserted across the face of the drum, (G, Fig. 3,) and are held

in place by the screws H, on which screws they freely slide. These bars are held up to the face of the drum by the springs I, Fig. 3, and sometimes, when the cloth in use is loosely woven or soft, the pin-bars are removed, the rough surface of the drum being sufficient to move the cloth.

In using this improvement the cloth is put on the roller J, and the end is passed over the roller K, over the doctor O, under the distributing-knives *a a a*, to the face of the drum, to which it adheres, until by passing over the roughened roller L it is loosened from the drum, and is drawn up by the roughened roll M, over which it passes to the machinery that conveys it to and hangs it in the drying-room.

By means of the rollers N in the frame B, the machine can be moved across the width of the drying-room, so as to place the cloth anywhere in any row.

The doctor and the distributing-knives being the same, and their use and manner of using the same as in the ordinary method of japanning oil-cloths, need therefore no description here.

The advantages of the improvements are that two men with the cylinder can do as much as eight can with the common rollers. The pieces of cloth being cemented together instead of the two ends of one piece being sewed, there is no waste of ends, as in the common mode.

What I claim and desire to secure is—

1. The use of a drum or cylinder with its surface roughened by sand, gravel, pounded glass, or any like substance, for carrying forward cloths in the process of japanning or painting.

2. The spring-bars G and the roughened rollers L and M, when used in combination with the cylinder.

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Witnesses:

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