(No Model.)

J. F. RODGERS & L. J. GREGOR.

SANDPAPERING HEAD.

No. 449,950. Patented Apr. 7, 1891.

FIG. 1.

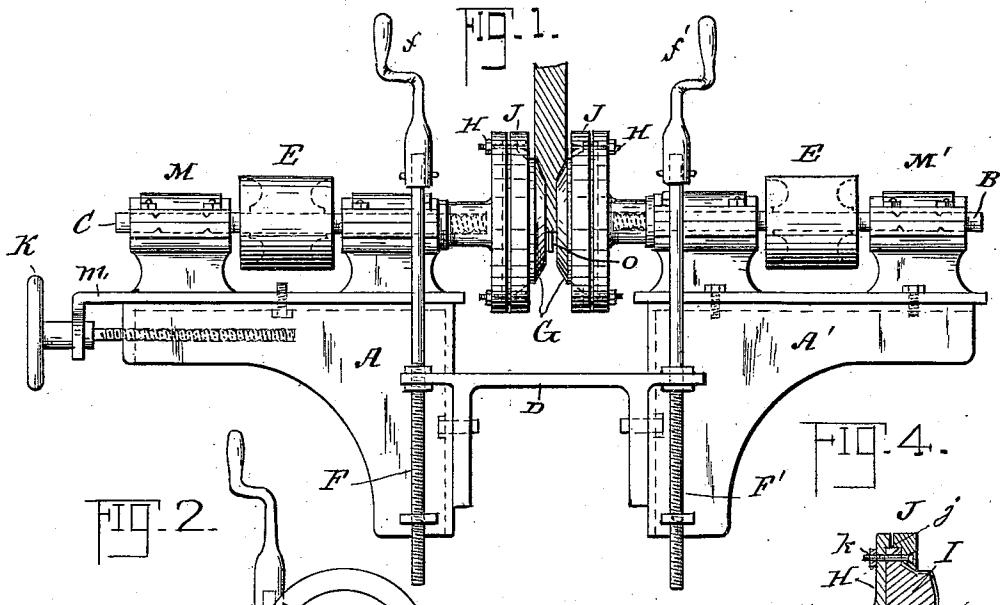


FIG. 2.

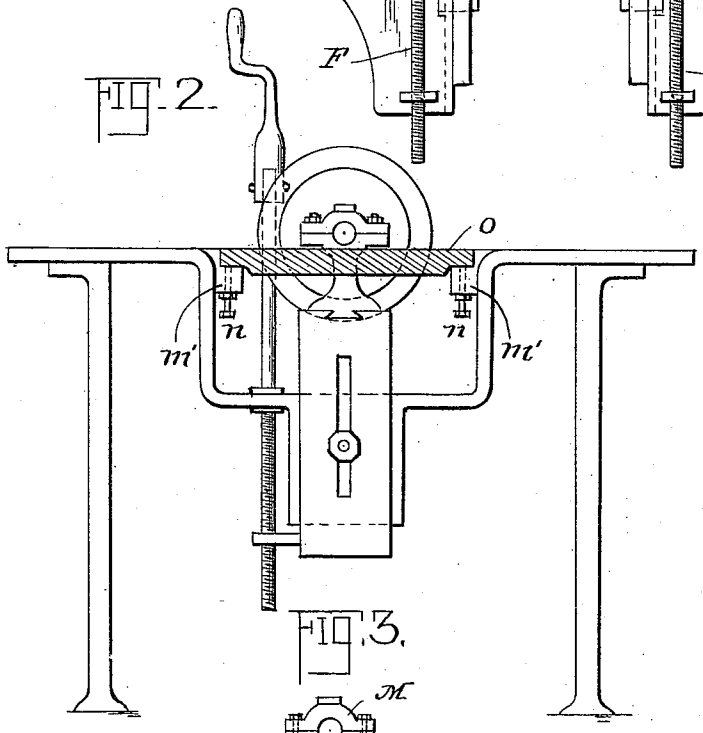


FIG. 4.

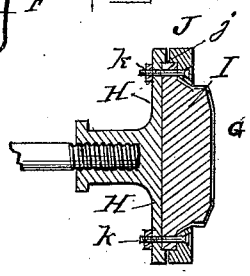


FIG. 5.

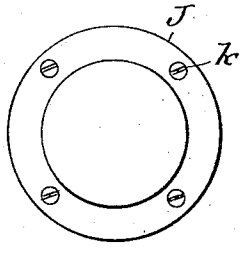


FIG. 3.

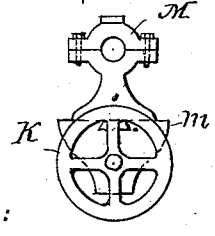
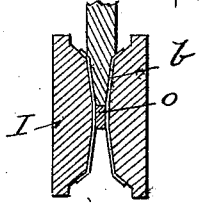


FIG. 6.



WITNESSES:

Sam'l R. Turner.

Van Buren Hillyard.

INVENTOR

Joseph Felix, Rodgers.

Lucas John Gregor.

BY

R. S. & A. Lacey

their ATTORNEYS.

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

UNITED STATES PATENT OFFICE.

JOSEPH FELIX RODGERS AND LUCAS JOHN GREGOR, OF PITTSBURG, PENNSYLVANIA.

SANDPAPERING-HEAD.

SPECIFICATION forming part of Letters Patent No. 449,950, dated April 7, 1891.

Application filed August 7, 1890. Serial No. 361,295. (No model.)

To all whom it may concern:

Be it known that we, JOSEPH FELIX RODGERS and LUCAS JOHN GREGOR, citizens of the United States, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Sandpapering-Heads; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to wood-working machines, being especially designed as an improvement on machines for sandpapering raised panel-work.

The object of the invention is to improve the general construction of this class of machines and increase their efficiency and usefulness.

The improvement consists of the novel features and the peculiar construction and combination of the parts, which will be hereinafter more fully described and claimed, and which are shown in the accompanying drawings, in which—

Figure 1 is a front view of the head or upper portion of a machine embodying our invention. Fig. 2 is an end view of one-half of the machine, showing the work-rest in section. Fig. 3 is an end view of the bracket and the adjustable bearing thereon. Fig. 4 is a central cross-section of the sandpapering-head on a large scale. Fig. 5 is a front view of the clamping-ring. Fig. 6 is a cross-section of two differently-formed blocks, showing their relative position to each other and to the work and the work-rest.

The bed of the machine is indicated by D, and A and A′ are two brackets vertically adjustable with reference to the bed D, being adjusted by the screws F and F′, respectively, that are operated by the cranks *f* and *f′*, which are applied to their upper ends. The spindles C and B are journaled in suitable bearings M and M′, provided on the brackets A and A′. The bearings M′ are fixedly secured to the bracket A′, whereas the bearing M is adjustable on the bracket A, being adjusted by the set-screw K, which passes through the bent end of the base *m* and screws into the bracket A. Each of the spindles is provided with band-pulleys E, around which belts (not shown) pass to impart motion to the said spindles C and B.

Each of the sandpapering-heads G and G is similarly constructed, being composed of plate H, block I, clamping-ring J, and means, as the bolts K, for clamping the ring J and block I to the plate H. The plate H is centrally recessed to receive the block I and hold it from lateral displacement. The clamping-ring has an inwardly-projecting flange *j* to overlap a portion of the block I and obtain a purchase thereon. The plate H is adapted to screw on the spindle. The blocks I may be of different patterns to suit the required work, and are constructed to be readily interchangeable with each other. The abrading-sheet *b* is stretched over the block I and its edges are clamped between the ring J and the plate H by means of the bolts K. The plate O, arranged between the head and supported at its ends on the brackets *m′ m′*, which are secured to the frame of the machine, forms a rest for the work, and is adjustable vertically to suit the nature of the work by the set-screws *n n*. (See Fig. 2.)

In practice the work to be sandpapered is inserted between the revolving heads G G, which are spaced the proper distance apart by moving the spindle C outward.

Having thus described our invention, what we claim, and desire to secure by Letters Patent, is—

The hereinbefore-specified sandpapering-machine, comprising the base D, the vertically-adjustable brackets A and A′, the set-screws F and F′ for adjusting the brackets A and A′ vertically, the base *m* on the bracket A, the set-screw K for adjusting the base *m* on the bracket A, the bearings M, secured to and movable endwise with the base *m*, the bearings M′, secured on the bracket A′, the

spindles B and C, mounted in the bearings M′ and M, respectively, and having sandpapering-heads on their opposing ends, the spindle C movable with the bearings M and the base *m*, the work-rest O, and the set-screws *n n* for vertically adjusting the work-rest, substantially as described.

In testimony whereof we affix our signatures in presence of two witnesses.

JOSEPH FELIX RODGERS.
LUCAS JOHN GREGOR.

Witnesses:
JOHN A. CAMPBELL,
R. M. SPEER.