J. H. COFFIN & P. S. KLOTZ.

Slate-Polisher.

No. 167,875. Patented Sept. 21, 1875.

Fig. 1.

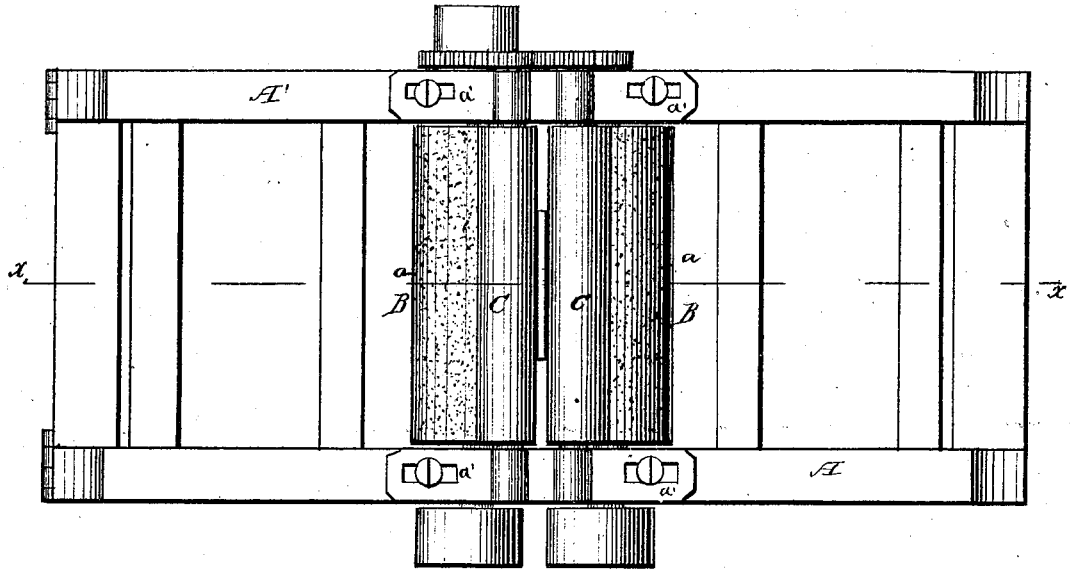
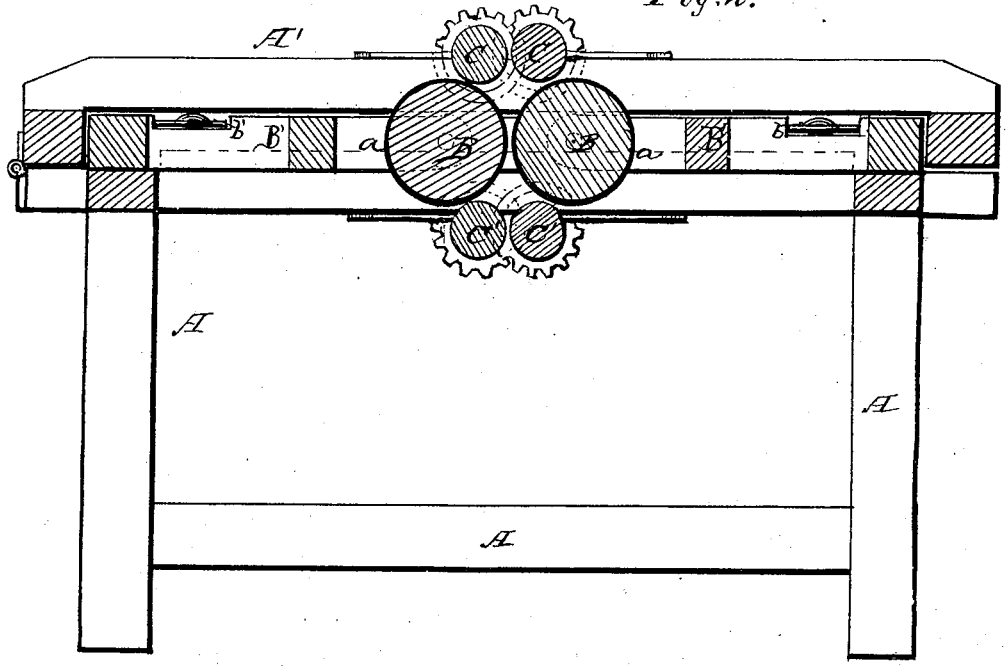


Fig. 2.



WITNESSES:
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UNITED STATES PATENT OFFICE.

JAMES H. COFFIN AND PHAON S. KLOTZ, OF SLATINGTON, ASSIGNORS OF ONE-THIRD THEIR RIGHT TO GEORGE S. COFFIN, OF DANIELSVILLE, PA.

IMPROVEMENT IN SLATE-POLISHERS.

Specification forming part of Letters Patent No. **167,875**, dated September 21, 1875; application filed August 9, 1875.

To all whom it may concern:

Be it known that we, JAS. H. COFFIN and PHAON S. KLOTZ, of Slatington, in the county of Lehigh and State of Pennsylvania, have invented certain new and useful Improvements in Slate-Polishing Machines; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

Our invention relates to machines for polishing slate; and it consists in the construction and combination of parts, as will be hereinafter more fully set forth.

In the annexed drawing, Figure 1 is a plan view of a slate-polishing machine embodying our invention. Fig. 2 is a longitudinal vertical section of the same through the line *x x*, Fig. 1.

A represents the frame-work of our machine, provided on the top with a hinged frame, A′, the said frame being provided with feed-rollers C, said feed-rollers having adjustable bearings *a′*, so that the said rollers can be adjusted as desired. B represents two rollers provided with a felted or elastic covering, *a*, coated with flint, emery, or other suitable grinding substance. These rollers are placed in a frame, B′, having adjustable bearings *b′*, so that the said rollers B can be adjusted as desired, regulating the distance between them according to the thickness of the slate to be polished. Beneath the polishing-rollers B are placed receiving-rollers C′. The slate, being passed between the feeding-rollers C, is fed to the polishing-rollers B, and after being polished is received by the rollers C′. The slate, being passed between the grinding or polishing rollers B B, is ground or polished on both sides at one time, and, said rollers being elastic, any unevenness in the surfaces of the slate will be compensated for, so as to grind or polish the same perfectly smooth and level.

This invention may be applied to grinding other material as well as slate.

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

The elastic adjustable polishing-rollers B, feeding-rollers C, having adjustable bearings *a′*, and receiving-rollers C′, in combination with the frame B, main frame A, and hinged frame A′, all constructed and arranged as and for the purpose specified.

In testimony that we claim the foregoing as our own we affix our signatures in presence of two witnesses.

JAMES H. COFFIN.
PHAON S. KLOTZ.

Witnesses:
JAMES SEIBERT,
EDW. GOLDING.