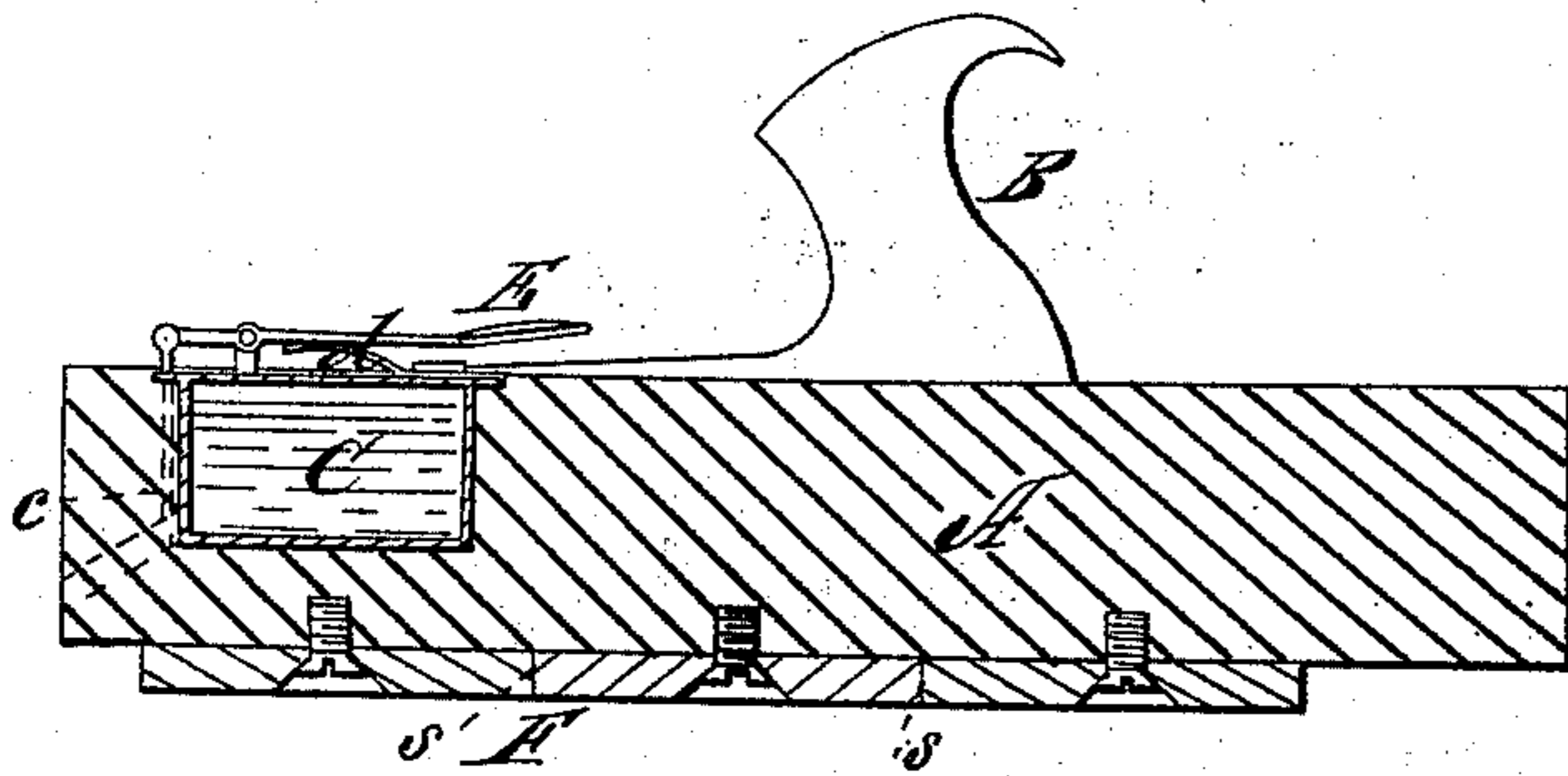


J. C. McAfee,
Grinding and Polishing Marble, &c.
Nº 81,520. Patented Aug. 25, 1868.



Witnesses:

J. C. Kenyon.
Chas. A. Pettit

Inventor:

J. C. McAfee
By Munroe & Co
Attorneys

United States Patent Office.

J. C. McAFEE, OF WEST ALEXANDER, PENNSYLVANIA.

Letters Patent No. 81,520, dated August 25, 1868.

IMPROVED COMPOSITION FOR GRINDING AND POLISHING MARBLE AND OTHER SUBSTANCES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, J. C. McAFEE, of West Alexander, in the county of Washington, and State of Pennsylvania, have invented a new and improved Composition for Grinding Marble; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification.

The manner of applying the sheets or plates of my improved composition to planes or polishing-tools is represented by a longitudinal vertical section of such plane or tool, having a detachable shoe or sole formed of the composition.

In the drawings, A represents the stock, and B the handle of the plane or tool, C being a water-chamber, in its front end, closed by a valve, *c*, operated by a spring, *d*, and thumb-piece, *e*.

F is the sole or shoe, attached to the bottom of the stock by any suitable means, so that it can be detached and removed, if desired.

Countersunk screws may be used for this purpose, if preferred, and the sole may consist of one piece, or several connected pieces of the composition.

The composition which I employ consists of pulverized flint and gum-shellac, in equal parts, made into a paste, and allowed to dry, and become hard and firm. It may be moulded in moulds, or worked by hand to any form desired, so as to give it the proper shape for polishing ornamental marble-work, of any pattern or design, and may be cast in solid blocks, or grinding-stones, if preferred.

A convenient form for manufacturing and applying it to use will be to cast or mould it in small strips or squares, as seen at *s s* in the drawing, having an aperture or apertures, through which screws may be inserted, to confine the pieces to the tool in connection with which they are to be employed.

This composition can be readily reduced to a plastic condition at any time, by moderately heating it upon a common stove or in hot water, and, while in this condition, can be readily moulded by the workman, either in moulds or by hand, to any desired form.

It does not require compression, but, when cool, "sets" hard and firm to a degree sufficient for all purposes for which I employ it.

When applied in the manner described, it grinds away marble faster than any substance heretofore employed, while its own wear is so slight as to be imperceptible.

By attaching it to a stock, A, as described, it can be used much more conveniently than when otherwise handled, besides effecting a saving in the material, and protecting the fingers and hand from injury and soiling.

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

The composition above described, substantially as and for the purpose set forth.

J. C. McAFEE.

Witnesses:

E. E. Post,

A. T. ANDERSON.