

(No Model.)

S. VAN AUKEN.

MORTISE CLEANER.

No. 294,097.

Patented Feb. 26, 1884.

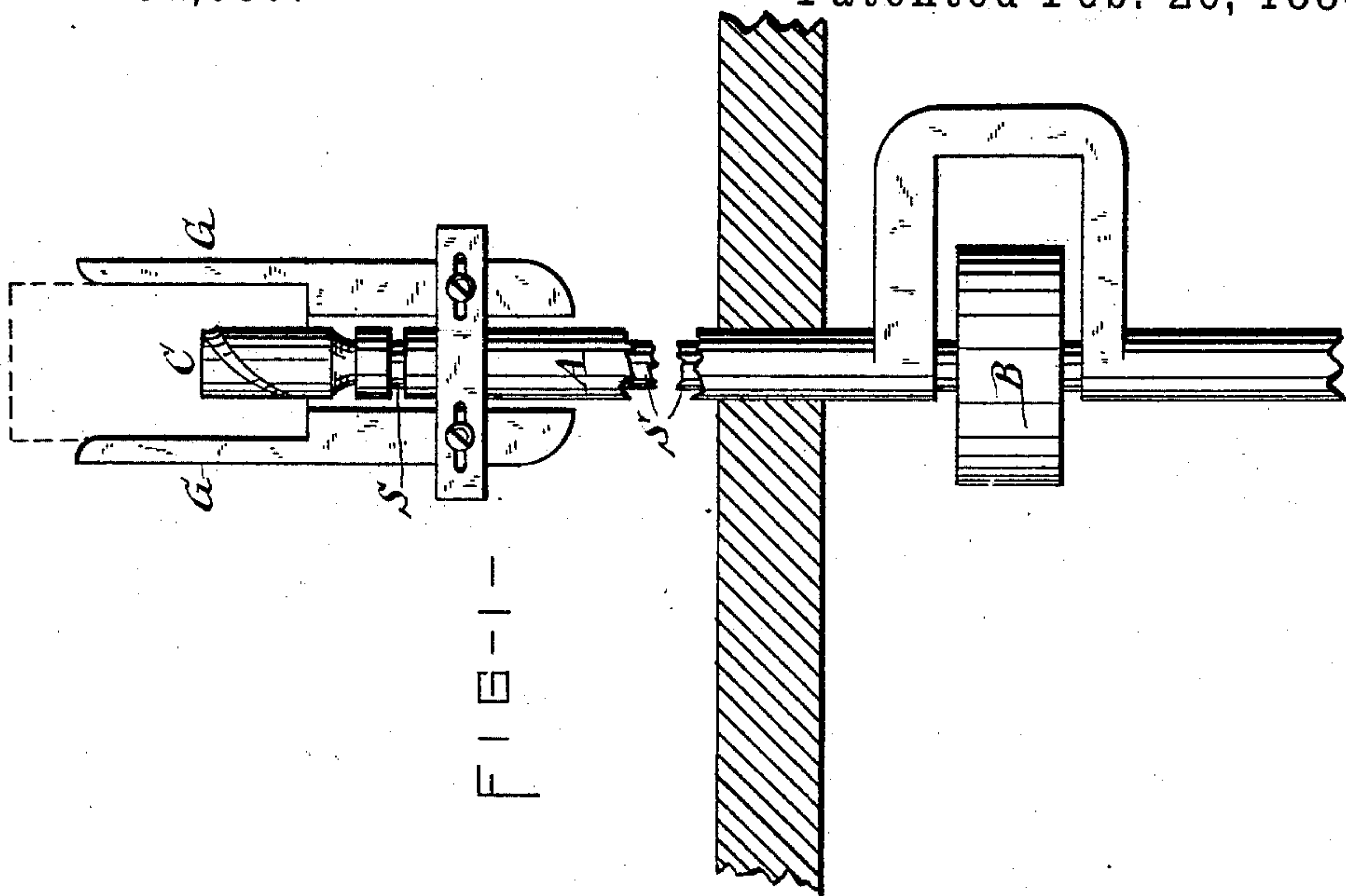


FIG. 1-

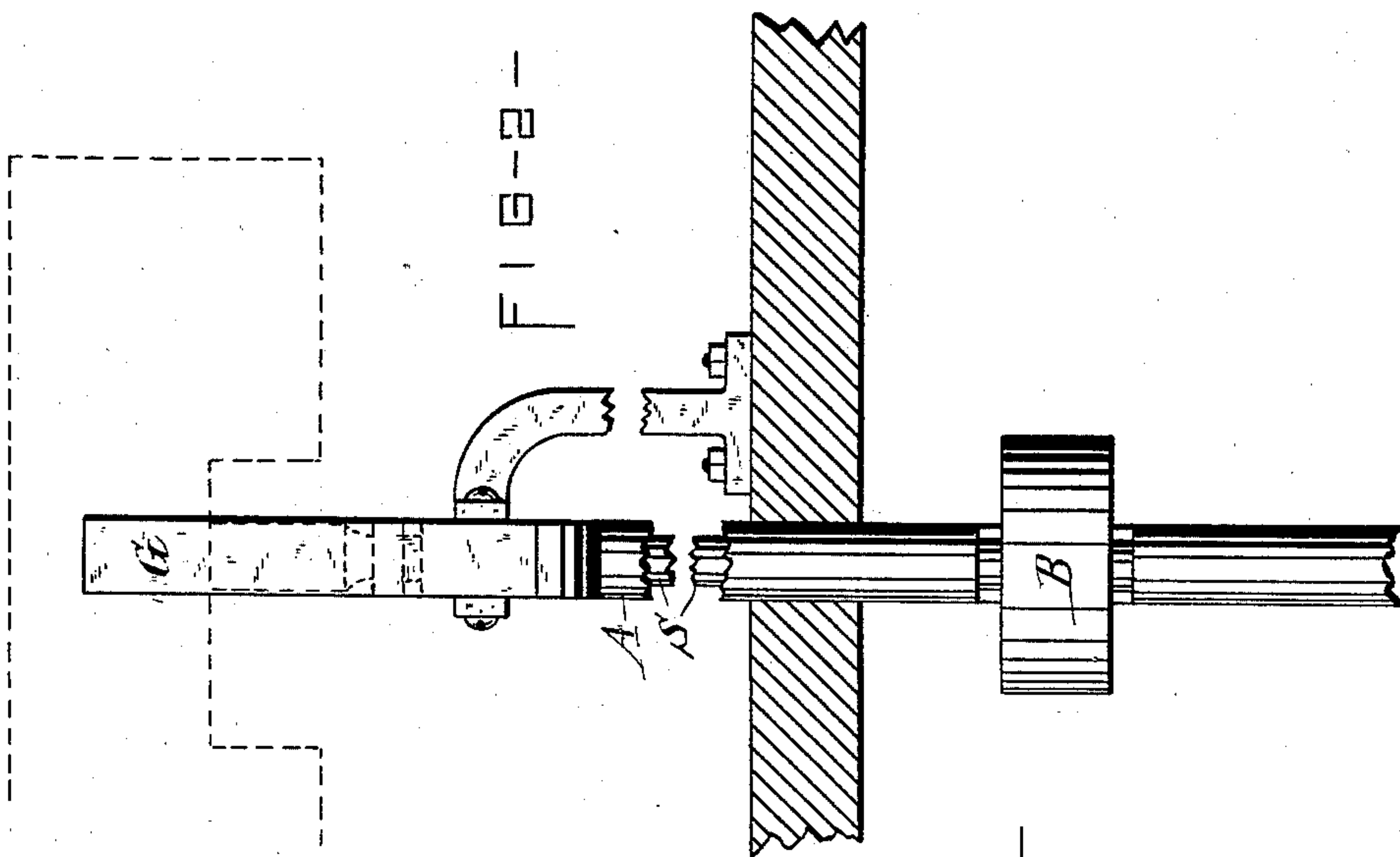


FIG. 2-

ATTEST—

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C. Bendixson.

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per Hull, Laess & Hey
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UNITED STATES PATENT OFFICE.

SIDNEY VAN AUKEN, OF OSWEGO, NEW YORK.

MORTISE-CLEANER.

SPECIFICATION forming part of Letters Patent No. 294,097, dated February 26, 1884.

Application filed January 2, 1884. (No model.)

To all whom it may concern:

Be it known that I, SIDNEY VAN AUKEN, of Oswego, in the county of Oswego and State of New York, have invented new and useful
5 Improvements in Means for Cleaning Mortises, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

Heretofore in the manufacture of doors and
10 blinds it has been customary to extend the mortises and tenons completely through the stiles. This was done because it was found to require less time and labor than to cut the mortise only part way into the stile and to
15 clean out said mortise for the reception of the tenon.

The object of this invention is to facilitate the latter operation, so as to reduce the expense of time and labor thereon as low or
20 lower than that of the aforesaid prior construction, and thereby accomplish the additional saving of the material hitherto required for the long tenons; and to that end my invention consists in the improved means for
25 cleaning a mortise extending part way the depth of the article containing the same, as hereinafter more fully described, and specifically set forth in the claims.

In the accompanying drawings, Figures 1
30 and 2 are front and side views of the means for cleaning the mortise.

C represents a rotary scraping or cutting tool, arranged in an upright position, and detachably connected to the upper end of a vertical spindle, S, which is journaled in suitable
35 bearings, A, and provided with a pulley, B, which, by a belt connection with a suitable motor, imparts rotary motion to the tool C. The tool C is of such a dimension as to allow
40 it to enter the mortise to be cleaned, and has the face of its uppermost end provided with scraping or cutting edges, by which it operates on the base of the mortise. Its detachable connection with the spindle S admits of
45 interchanging it with tools of different dimensions, according to the different sizes of the mortises to be operated on.

G G represent two guides arranged at oppo-

site sides of the tool C, and a proper distance apart to receive and guide between them the
50 article containing the mortise, as illustrated by dotted lines in the drawings. The guides are adapted to be set a greater or less distance apart, to accommodate them to different thick-
55 nesses of the article containing the mortise.

In the operation of cleaning the mortise I proceed as follows, to wit: I turn the article containing the mortise so as to bring the latter into an inverted position, then pass the same
60 over the rotary tool C, bringing the cutting or scraping end thereof to bear on the base of the mortise and move the mortised article back and forth, so as to cause the tool to operate on the base of the mortise throughout the
65 length thereof, the scraping or cutting action of the tool C effectually removing all chips from the mortise and trimming the base thereof, so as to leave it in a clean condition for the reception of the tenon.

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

1. The combination of a vertical rotary spindle, a tool mounted upright on the upper end of said spindle, and having the face of its
75 uppermost end provided with scraping or cutting edges, and guides at opposite sides of said tool adapted to receive between them the article containing the mortise to be cleaned, substantially as set forth and shown. 80

2. In combination with the cutter C, arranged vertically with its cutting end uppermost, the guides G G, arranged at opposite sides of the cutter adjustably in relation to the distance between them, substantially as de-
85 scribed and shown, for the purpose specified.

In testimony whereof I have hereunto signed my name and affixed my seal, in the presence of two attesting witnesses, at Syracuse, in the county of Onondaga, in the State of New York, 90
this 11th day of December, 1883.

SIDNEY VAN AUKEN. [L. s.]

Witnesses:

FREDERICK H. GIBBS,
C. H. DUELL.