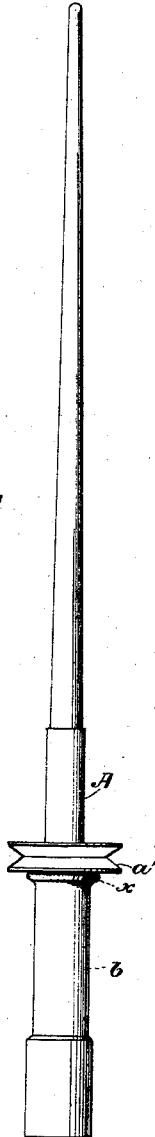


W. MASON.
Spindle-Steps.

No. 155,878.

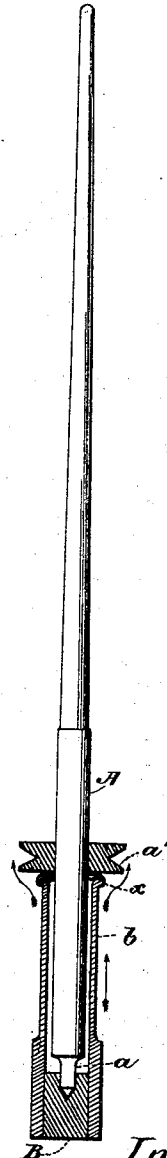
Patented Oct. 13, 1874.

Fig 1



Witnesses
Harry K. Clark.
G. C. Matthews.

Fig 2



Inventor.
William Mason.
by H. W. Beadle & Co.
Attys

UNITED STATES PATENT OFFICE.

WILLIAM MASON, OF TAUNTON, MASSACHUSETTS.

IMPROVEMENT IN SPINDLE-STEPS.

Specification forming part of Letters Patent No. **155,878**, dated October 13, 1874; application filed March 26, 1874.

To all whom it may concern:

Be it known that I, WILLIAM MASON, of Taunton, in the county of Bristol and State of Massachusetts, have invented a new and useful Improvement in Spindle-Steps; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings and to the letters of reference marked thereon.

This invention consists in providing a spindle-step with an oil-cylinder of peculiar construction, the same being adapted to prevent effectually the entrance of dust, as will be fully described hereinafter.

In the drawings, Figure 1 represents a side elevation of my improved step, and Fig. 2 a sectional elevation of the same.

To enable others skilled in the art to make and use my invention, I will now proceed to describe fully its construction and manner of operation.

A represents a spindle of the usual construction, provided with the foot *a* and whirr *a'*, as shown. B represents the step, constructed of the usual or any other proper material, which has attached to it the oil-cylinder *b*, as shown. This cylinder extends above the step as far as is possible without touching the whirr when the spindle is in position, as shown in the drawings, and it is provided at

its upper end with an outwardly-turned lip or flange, *x*.

The operation will be readily understood from the foregoing description.

The entrance of dust is effectually prevented by the outwardly-turned lip or flange *x* and its proximity to the lower face of the whirr, as it serves to direct the currents of ascending air produced by the rapidly-revolving whirr away from the open space between the lower space of the whirr and the upper edge of the cylinder, as indicated by the arrows in Fig. 2.

The construction described is exceedingly simple, and yet well adapted for the purpose for which it is designed.

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

The cylinder *b*, provided with the outwardly-turned flange *x*, in combination with the spindle A, having the whirr *a'*, the whirr and flange being located in close proximity to each other, as and for the purpose described.

This specification signed and witnessed this 17th day of February, 1874.

WM. MASON.

Witnesses :

BENJ. DEAN,

AUGUSTUS ANDREWS.