E. PARKER.
Knob Attachment.

No. 226,243. Patented April 6, 1880.

Fig. 1

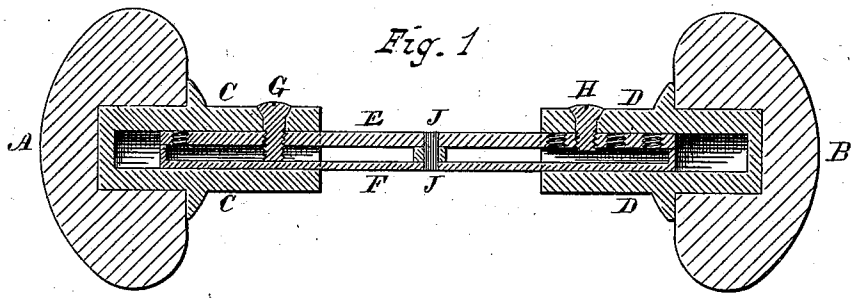


Fig. 2

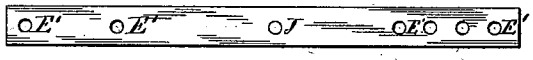
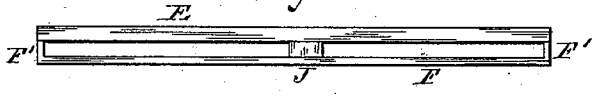


Fig. 3



Witnesses:
Wilmot Horton,
Wendell R. Curtis

Inventor:
Emery Parker,
by Thos. G. Ellis, Attorney

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

EMERY PARKER, OF NEW BRITAIN, CONNECTICUT.

KNOB ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 226,243, dated April 6, 1880.

Application filed February 16, 1880.

To all whom it may concern:

Be it known that I, EMERY PARKER, of New Britain, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Knob Attachments; and I do hereby declare that the following is a full, clear, and exact description thereof, whereby a person skilled in the art can make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Like letters in the figures indicate the same parts.

My improvement relates to a new and improved form of spindle, which passes through the door and operates the latch, and to which the knobs are attached.

The object of my invention is to provide a cheaper and more easily-constructed spindle than has heretofore been in use, and more especially one in which the screw-holes for the reception of the screw which holds on the knob can be punched, and not drilled, as is required with the plain square solid spindles now in use.

In the accompanying drawings, Figure 1 is a longitudinal section through the middle of my improved spindle and the attached knobs. Fig. 2 is a top view of the spindle detached. Fig. 3 is a side view of the spindle detached.

A and B are the knobs. They are provided with the shanks C and D, which are furnished with square sockets for the reception of the end of the spindle, in the usual manner.

E and F are the two parts of which my improved spindle is composed. The part E is a straight bar of plate metal, of the width of one side of the square socket in the shank, and of such a thickness that the holes E′, which are tapped for the reception of the screws G and H, can be readily punched. The part F is likewise a straight bar of plate metal, of the same width as E, but preferably has its ends F′ turned up, as shown in the drawings, so that when the two parts are put together they form a square, which fits into the square opening in the shanks.

G and H are the screws which hold the knobs upon the ends of the spindle. The screw G is shown as passing through the bar E to the bar F, against which it presses and forces the two bars apart, so that they completely fill the square hole in the shank. The screw H is shown as only reaching through the bar E. This serves to bind the part E against the side of the opening in the shank.

Either form of screw can be used with my improved spindle; but the first is preferred, as being the strongest construction.

It will be observed that the holes for the screws at the ends of the spindle are arranged close together at one end, and at the other they are wide apart. This arrangement permits of a large adjustment for length to be made at one end and a fine adjustment at the other, with a less number of holes than if the same distances were preserved at the two ends.

J is a block or pin in the middle of my improved spindle for the purpose of holding the two parts E and F together and rendering the whole spindle stronger and stiffer. It may, however, be omitted, if desired, without changing the character of my invention.

By means of my improvement the time, trouble, and expense of boring or drilling the holes in the ordinary square solid spindle are avoided, and a much cheaper spindle produced, which is, moreover, sufficiently strong and stiff for the purpose for which it is intended.

What I claim as my invention is—

The combination of the part E, furnished with holes E′, the part F, having the turned-up ends F′, and the connection J, to form a knob-spindle, substantially as described.

EMERY PARKER.

Witnesses:

THEO. G. ELLIS,

WILMOT HORTON.