J. WOLFENDEN.

Rest Holder for Turning Lathes.

No. 56,840. Patented July 31, 1866.

Fig. 1.

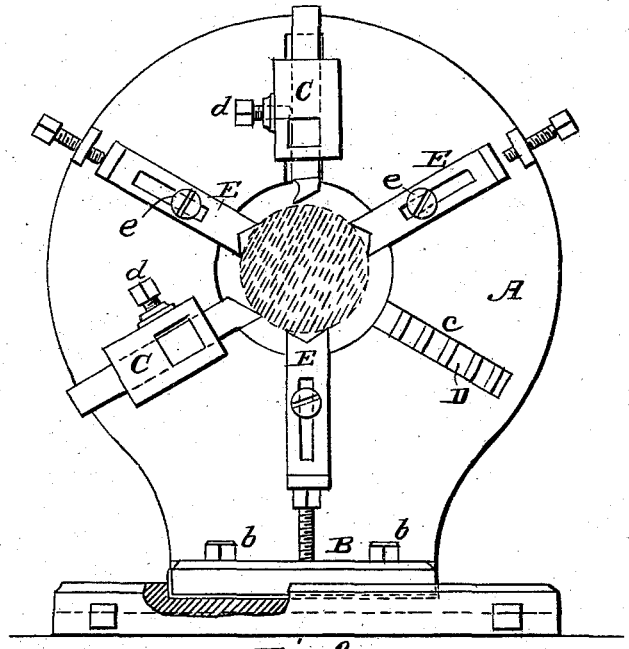
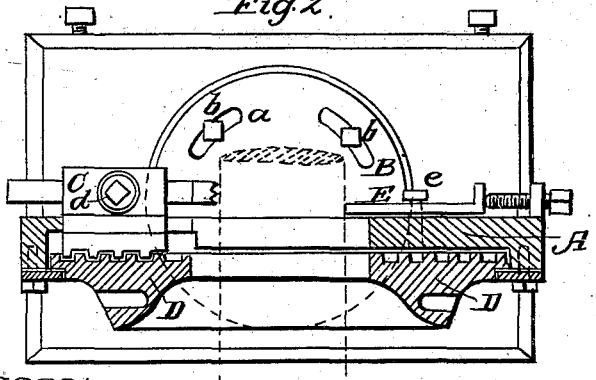


Fig. 2.



Witnesses:

Wm. E. McNamara

W. Lauffy

Inventor:

James Wolfenden

UNITED STATES PATENT OFFICE.

JAMES WOLFENDEN, OF JERSEY CITY, NEW JERSEY.

IMPROVED TOOL AND REST HOLDER FOR LATHES.

Specification forming part of Letters Patent No. **56,840**, dated July 31, 1866.

To all whom it may concern:

Be it known that I, JAMES WOLFENDEN, of Jersey City, in the county of Hudson and State of New Jersey, have invented a new and Improved Universal Tool-Box; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents an inside elevation of this invention. Fig. 2 is a horizontal section of the same.

Similar letters of reference indicate like parts.

This invention relates to a universal tool-box which is intended for sliding off shafting, for cutting V and square threads, and also for a steady-rest. It is provided with two or more radiating tool-holders, which are adjustable according to the size of the article to be turned, and which connect with a scroll in such a manner that the several tools close up simultaneously, and a uniform action of said tools on the work is effected. The tool-box is secured to the slide-rest of the lathe, and it is adjustable, so that it can be set in an oblique position for cutting square or V-shaped threads.

A represents a plate, which is provided with a foot or bracket, B, by means of which it is secured to the slide of the lathe. This bracket is provided with two segmental slots, *a*, to admit the screws *b*, which fasten the bracket down on the slide, and by these segmental slots the plate A can be adjusted in a square or oblique position, according to the work to be executed.

On the plate A are secured the tool-holders C, which move in radiating slots *c*, being provided with segmental threads on their shanks, which gear in a scroll cut in a plate, D, which is secured to the outside of the plate A. By turning the scroll D all the tool-holders move in or out uniformly, and a uniform action of the tools contained in said tool-holders is insured.

The tools are secured in the tool-holders by set-screws *d*, and said tool-holders are made to hold tools for sliding off shafting or chasers for cutting square or V-shaped threads. For cutting threads the plate A must be brought in an oblique position on the slide of the lathe.

The plate A is also provided with three or more radiating slides, F, which are adjustable by set-screws *e*, and which serve to steady the work to be turned.

If desired, suitable pieces may be inserted in the tool-holders, and the entire tool-box may be used simply as a steady-rest.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination of the slotted plate B, tool-holders C, with segmental threads gearing in scroll D, and plate A, provided with the adjustable guide-slides E, when arranged and operating in the manner and for the purpose herein described.

2. The segmental slots *a* in the brackets B, for the purpose set forth.

JAMES WOLFENDEN.

Witnesses:
WM. F. MCNAMARA,
W. HAUFF.