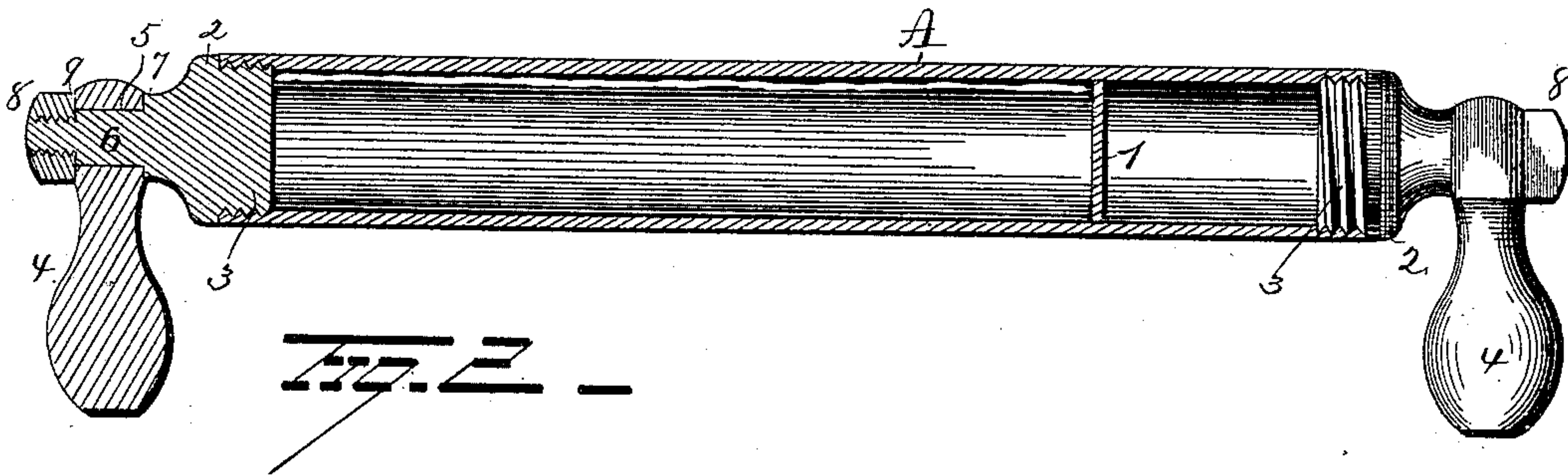
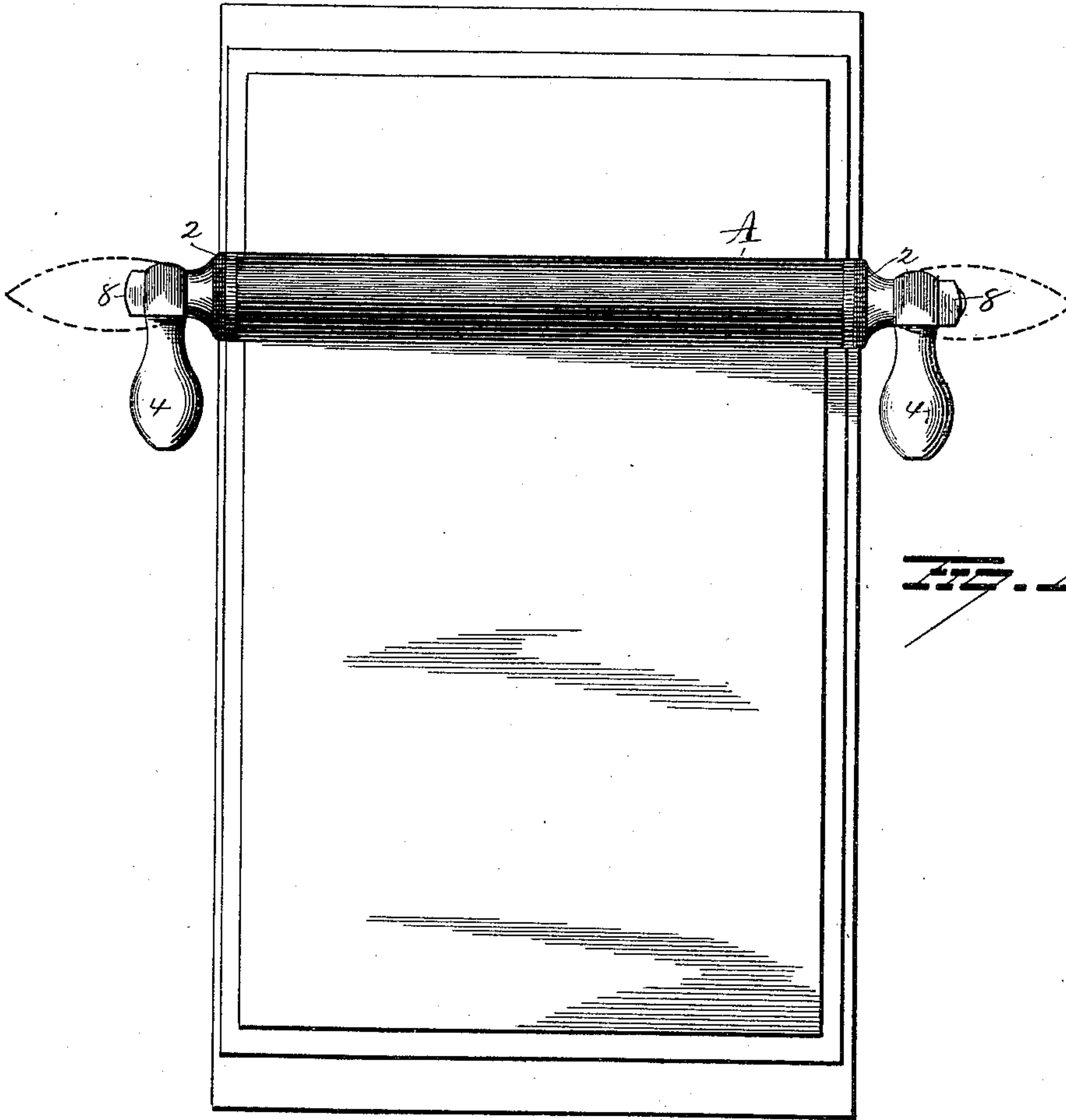


(No Model.)

C. E. DODD.  
HAND COPYING ROLLER.

No. 451,401.

Patented Apr. 28, 1891.



Witnesses  
*B. H. Nottingham*  
*G. F. Downing*

Inventor  
*Charles E. Dodd*  
By his Attorney  
*H. A. Seymour*

# UNITED STATES PATENT OFFICE.

CHARLES E. DODD, OF WILLIAMSPORT, PENNSYLVANIA.

## HAND COPYING-ROLLER.

SPECIFICATION forming part of Letters Patent No. 451,401, dated April 28, 1891.

Application filed May 19, 1890. Serial No. 352,282. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES E. DODD, of Williamsport, in the county of Lycoming and State of Pennsylvania, have invented certain  
5 new and useful Improvements in Hand Copying-Rollers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to  
10 make and use the same.

My invention relates to an improvement in hand copying-rollers.

The object is to provide a light and simple device to be employed in copying and transcribing written or printed matter; and it  
15 consists in a roller having removable screw-plugs at its ends with trunnions thereon, in combination with handles in which said trunnions are supported, and means for retaining  
20 the trunnions in the handles, and in certain other parts of more or less importance, as will appear in the course of the following description.

In the accompanying drawings, Figure 1 is  
25 a view of my invention, and Fig. 2 is a longitudinal section of the same.

A represents a roller, solid or hollow, and of any convenient length and diameter. It is composed of iron, steel, brass, porcelain,  
30 wood, vulcanized rubber or any other hard substance. When hollow, this roller is provided with a partition 1, which divides it into two compartments of equal or different sizes, as preferred. One of these chambers is designed for the reception of a moistener and  
35 the other for the storage of a rolled book, copying-sheets, or any other article. The ends are closed with plugs 2 2, which have threaded taps 3 3 thereon adapted to screw  
40 into corresponding threads in the ends of the tube or roller. The outside surface of the plugs being flush with the outer surface of the tube or roller, they form continuations of the latter.

45 The plugs are milled for convenience in screwing them on or off and may be furnished with various styles of handles; but one commonly used is that shown in dotted lines in Fig. 1, like the ordinary rolling-pin handle, or the one preferred even to this is shown  
50 in full lines. The handles 4 4 in this instance are provided with holes 5 5, in which trunnions 6 6 are fitted and have bearings, the han-

dles being confined between shoulders 7 7 on one side and nuts 8 8 on the other, which latter are secured onto the extreme outer ends of the trunnions until they strike shoulders 9 9, against which they abut, or the ends may be upset to hold the nuts on. The length of the trunnions being slightly greater than the  
60 thickness of the handles at the point where the holes 5 5 are formed, a nice bearing is formed, so that the roller turns freely in the holes in the handle.

The copying is effected by passing the  
65 roller with the required pressure over the sheet or sheets previously prepared, and in this way the process of copying is greatly shortened and rendered much more convenient, and in addition the device is so complete in itself that it can be easily carried  
70 from place to place with the other necessary utensils employed with it without being in any sense cumbersome, or it may of course be used, as other articles of similar character,  
75 more as an office fixture than otherwise.

It is evident that slight changes might be resorted to in the form and arrangement of the several parts described without departing from the spirit and scope of my invention, and hence I do not wish to limit myself to the exact construction herein set forth; but,  
80

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—  
85

1. The combination, with a roller, of screw-plugs removably secured to its ends, trunnions on the plugs, handles in which said trunnions are journaled, and means for securing the handles on the bearings, substantially as set forth.  
90

2. The combination, with a hollow roller divided into compartments and having open ends with screw-threads therein, of removable screw-plugs having trunnions therein, handles in which these trunnions are revolvably supported, and means for holding the trunnions in the handles, substantially as set forth.  
95

In testimony whereof I have signed this  
100 specification in the presence of two subscribing witnesses.

CHARLES E. DODD.

Witnesses:

C. S. DRURY,  
V. E. HODGES.