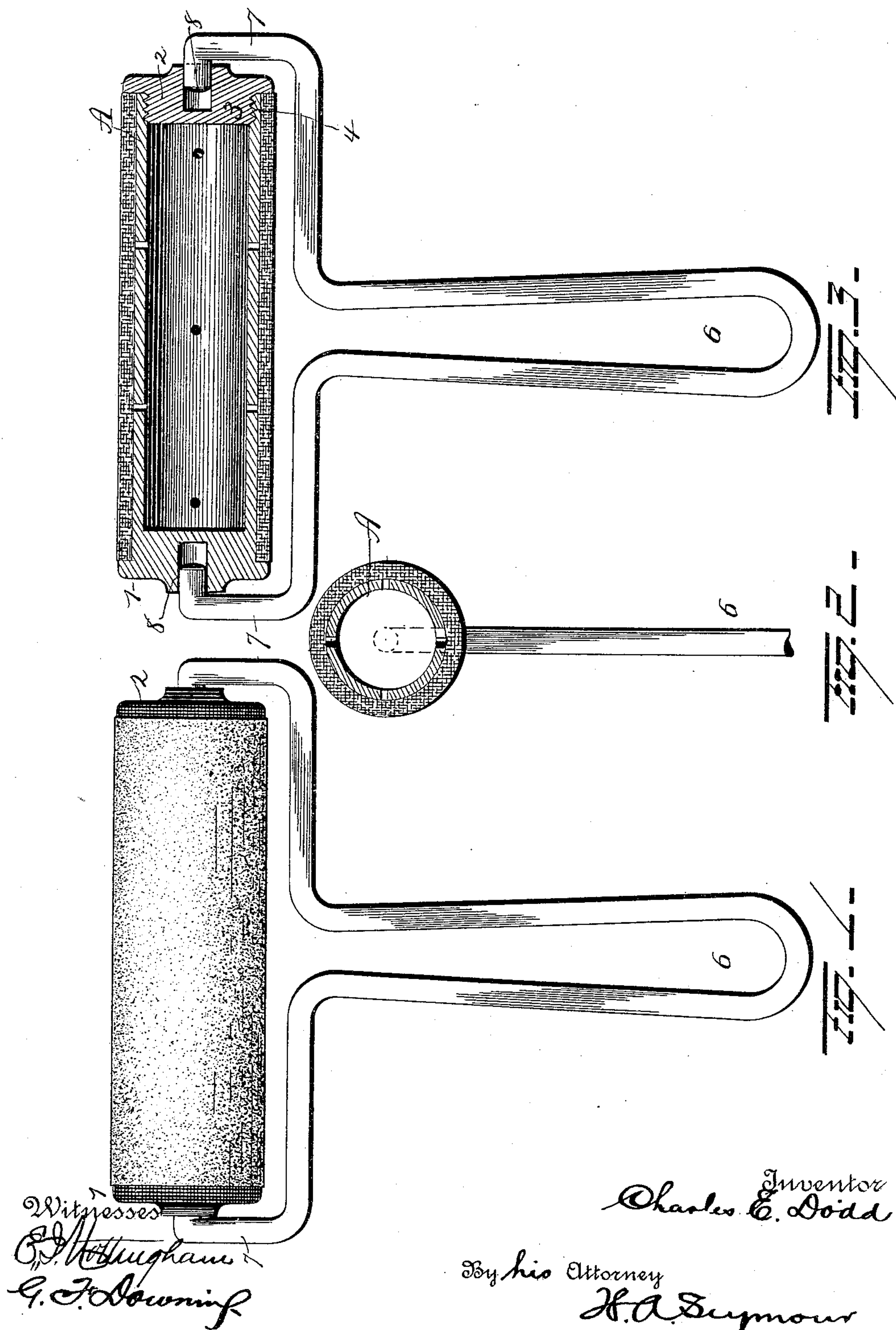


(No Model.)

C. E. DODD.
LETTER COPYING MOISTENER.

No. 451,400.

Patented Apr. 28, 1891.



UNITED STATES PATENT OFFICE.

CHARLES E. DODD, OF WILLIAMSPORT, PENNSYLVANIA.

LETTER-COPYING MOISTENER.

SPECIFICATION forming part of Letters Patent No. 451,400, dated April 28, 1891.

Application filed May 19, 1890. Serial No. 352,281. (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 Letter-Copying Moisteners; 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
10 to make and use the same.

My invention relates to an improvement in letter-copying moisteners or damping device, the object being to provide a convenient and efficacious instrument for retaining a supply
15 of water and gradually emitting it as pressure is applied for the purpose of moistening the paper used in copying or transcribing written or printed matter; and it consists in certain novel features of construction and
20 combinations of parts, as will be hereinafter described, and pointed out in the claim.

In the accompanying drawings, Figure 1 is a plan view of my improved moistener. Fig. 2 is a transverse section, and Fig. 3 is a view
25 in longitudinal section.

A represents a hollow tube or cylinder composed of any hard substance, such as steel, copper, brass, or other metal or vulcanized rubber or its equivalent. This tube or cylinder
30 constitutes a roller adapted to be rolled over the surface to be moistened instead of the moistening-brush in common use. This tube or cylinder is closed at its ends by the integral and removable heads 1 and 2, respectively. These heads are substantially
35 alike, except that the removable head 2 is preferably furnished with a screw-threaded top 3, designed to screw into corresponding threads 4, formed in the open end of the
40 tube or cylinder. The object of making the head 2 removable is to provide for supplying the cylinder with water, which is poured in at this end, after which the head 2 is screwed on again. The surface of the cylinder is provided
45 with numerous perforations, through which the water contained in it is discharged as fast as it is required in moistening the paper or blotters, as the case may be. The cylinder is covered or faced with sponge, cloth,

felt, or other material, preferably of cylindrical form, capable of receiving, retaining, and, when pressure is applied, emitting moisture. The edges of the heads 1 and 2 project a distance beyond the surface of the cylinder about equal to the thickness of the absorbent material on the cylinder for several
55 reasons, prominent among which are to prevent the water from squeezing or oozing out at the ends, where it will be liable to get on the operator or on something else where it
60 was not wanted, to retain the absorbent material on the surface of the roller, and otherwise give a neat finish to the article.

The removable head may be milled or otherwise constructed to facilitate its removal
65 or application to the end of the cylinder, and both the heads may be furnished with handles extending out in line with the axis of the cylinder or at right angles to the axis, and one handle may be constructed to receive
70 water through it, or, still better, the handle shown in Figs. 1 and 3 may be employed. This is a spring-handle bent conveniently from a rod of metal into the handle proper 6, formed by a doubling of the
75 rod together, and in the spring-forks 7 7, which terminate in the inwardly-projecting ears arranged to spring into sockets 8 8, formed to receive them in the heads 1 and 2, whereby bearings are effected at this point,
80 so that the article may be grasped by the handle and the roller run over the surface of the paper.

A device of this character is in constant demand, and it will supply a constant deficiency
85 hitherto felt and which the ordinary brush usually relied upon in default of something better is not qualified to supply.

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

As a new article of manufacture, a damping device consisting of a hollow perforated roller having one removable head, the heads having sockets therein and annular peripheral flanges, a cylindrical absorbent material adapted to receive and cover the cylindrical
95 surface of the roller and be held on by the

removable head and the flanges on the heads,
and a spring-handle having inwardly-pro-
jecting ears at its ends adapted to spring into
the sockets in the heads to form bearings at
5 the ends of the roller, substantially as set
forth.

In testimony whereof I have signed this

specification in the presence of two subscri-
ing witnesses.

CHARLES E. DODD.

Witnesses:

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