

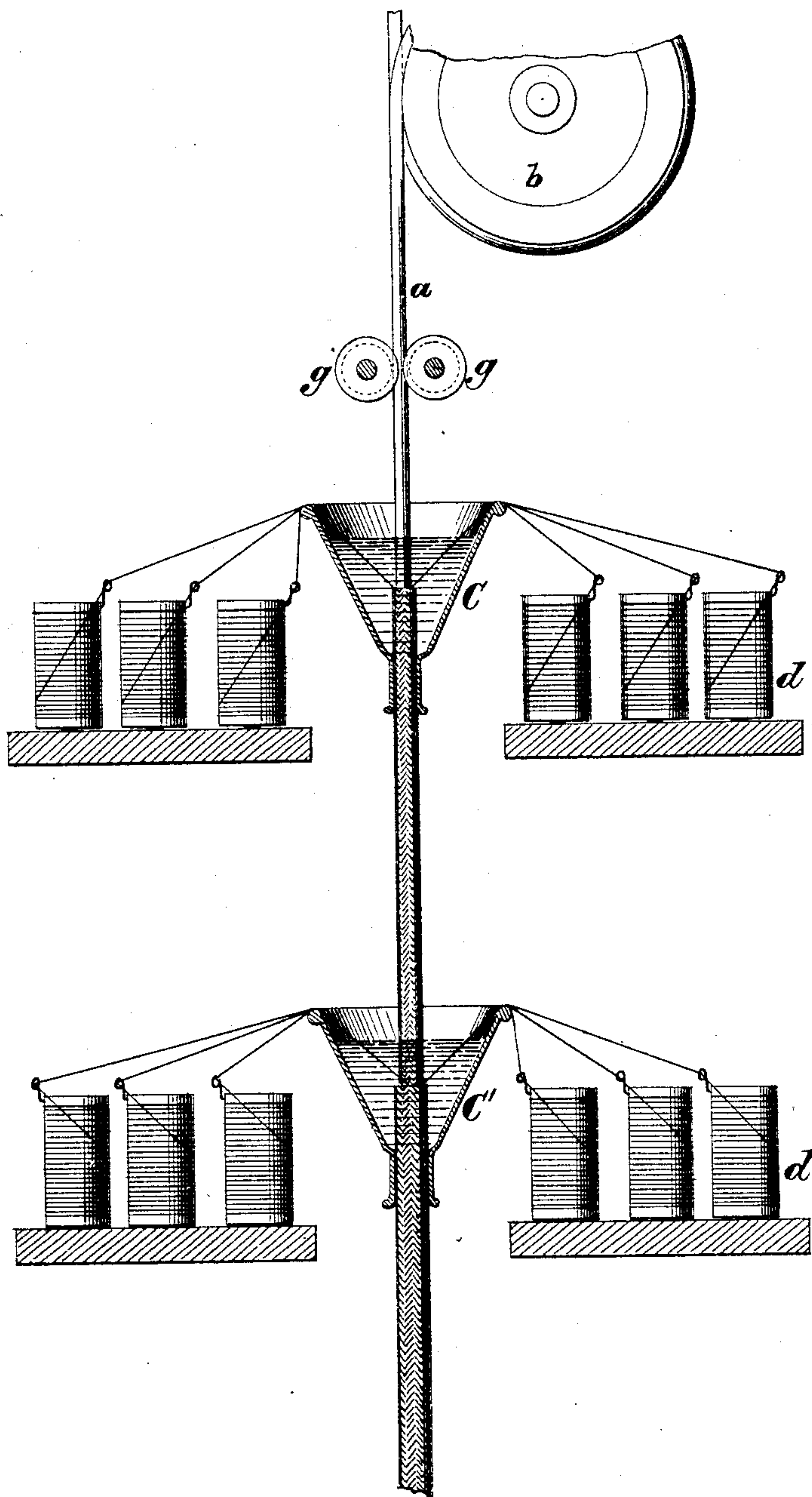
(No Model.)

H. O. PHILLIPS.

INSULATING ELECTRICAL CONDUCTORS.

No. 285,673.

Patented Sept. 25, 1883.



WITNESSES:

Gustave Dietrich
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INVENTOR

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HERBERT O. PHILLIPS, OF WATERBURY, CONNECTICUT, ASSIGNOR TO
HOLMES, BOOTH & HAYDENS, OF SAME PLACE.

INSULATING ELECTRICAL CONDUCTORS.

SPECIFICATION forming part of Letters Patent No. 285,673, dated September 25, 1883.

Application filed June 1, 1883. (No model.)

To all whom it may concern:

Be it known that I, HERBERT O. PHILLIPS, a citizen of the United States, residing at Waterbury, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in the Construction of Insulated Electric Conductors; 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 make and use the same.

My invention has for its object the coating of the material used in covering wire with braid with paint concurrently with its being braided upon the wire, so that all parts of the braid, and every individual thread, and every portion thereof, will be wet and saturated with paint or other suitable material as the braid is being woven upon the wire. The result of this process is a wire so thoroughly coated with a paint-saturated braid or braids as to make it as nearly fire and water proof as possible.

The manner in which I carry out my invention is as follows, reference being had to the accompanying drawing, making part of this specification, and to the letters of reference marked thereon.

The wire *a* is passed down from a reel, *b*, through the paint-holding vessels *C C'*.

dd represent the braiding-heads with spools. The threads from these spools pass over the edges or rims of the vessels *C C'*, and are braided on the wire below the surface of the paint in said vessels. The point below the surface of the paint at which the thread is braided on the wire is governed by the speed at which the latter is drawn from the reel *b*. By this means each thread forming the braid is sat-

urated with the paint as it is being braided on the wire, and where a double braider is used, as is shown in the drawing, this process is duplicated, producing a very superior article.

g g are friction-rollers for feeding the wire from the reel to the braiding mechanism.

The mechanism for operating the machine is such as has long been used in machines of this class, and, being well known to all persons acquainted with such machines, needs no particular description here.

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

1. The combination and arrangement, in a braiding-machine, of the paint-cups *C C'*, braid-spools, and revolving plates, so as to saturate with paint each thread as received from the spools, before being actually braided upon the wire, but in the process of such braiding.

2. In a braiding-machine, the combination and arrangement of the parts, as herein described, to enable the thread to be braided upon the wire within the paint-cup and below the surface of the paint therein, as shown and described.

3. As an article of manufacture and sale, an electric conducting-wire covered with braided threads, each individual thread having been saturated with paint immediately before being braided, and being braided on the wire while the paint is still wet, substantially as described.

In testimony whereof I affix my signature in the presence of two witnesses.

HERBERT O. PHILLIPS.

Witnesses:

GEO. W. MCGILL,
HENRY C. ADAMS.