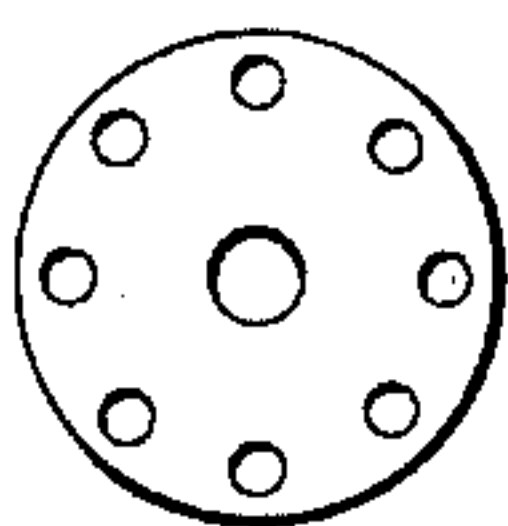
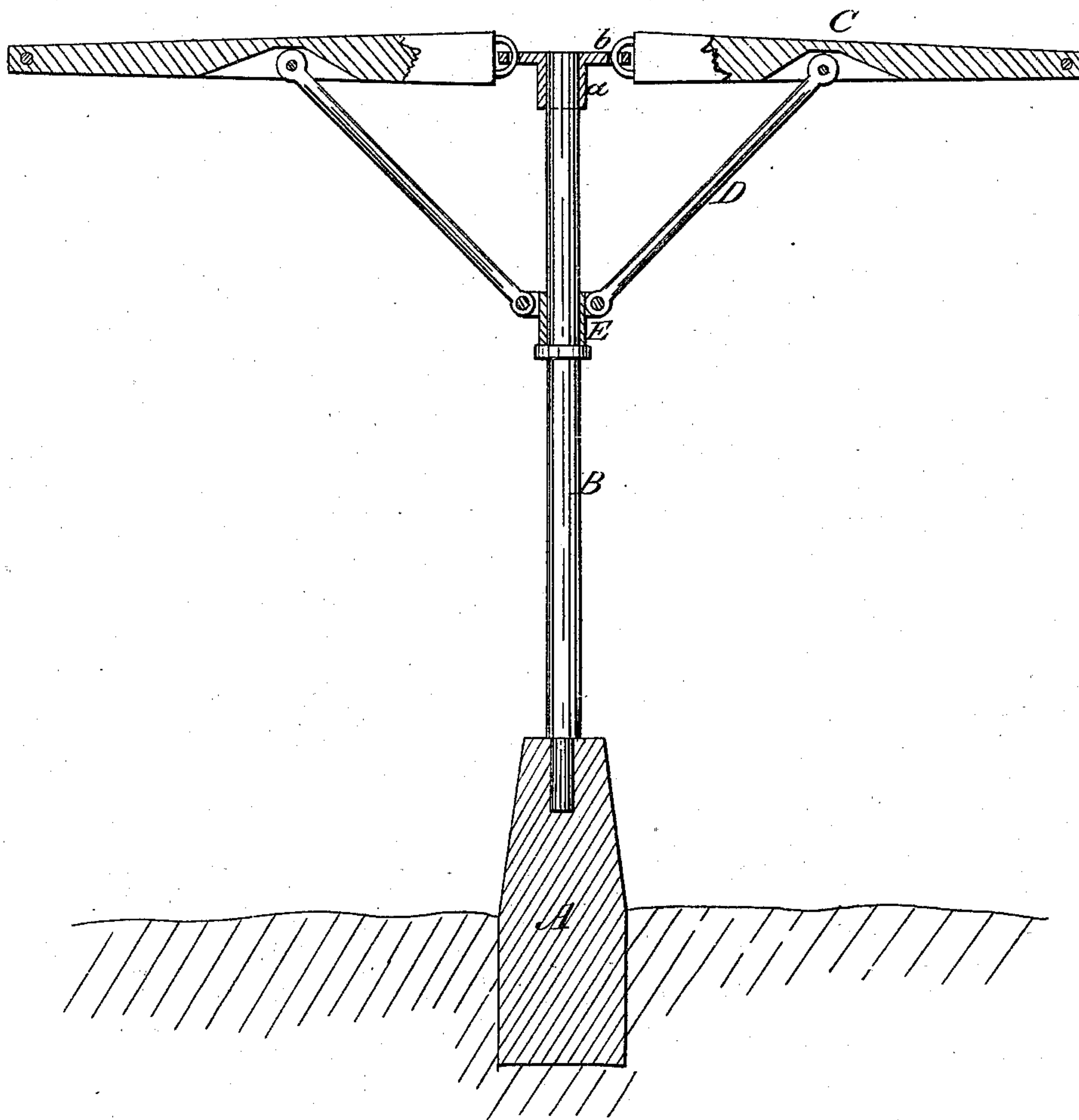


H. Gransden,
Clothes Drier,
No 66,582, Patented July 9, 1867.



Witnesses:
Thos. Lusche
J. A. Service

Inventor:
Henry Gransden
Per Munn & Co
Attorneys

United States Patent Office.

HENRY GRANSDEN, OF DUBUQUE, IOWA.

Letters Patent No. 66,582, dated July 9, 1867.

IMPROVED CLOTHES-DRYER.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN.

Be it known that I, HENRY GRANSDEN, of Dubuque, in the county of Dubuque, and State of Iowa, have invented a new and improved Clothes-Dryer; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification.

This invention consists in arranging arms upon an upright pole in such a manner that while the arms are securely attached to the pole, and the cords or ropes upon which the clothes are hung are attached to the arms, the whole may be securely folded up into a very small space, and transported to any part of the premises, as I will proceed to describe.

The drawing represents a central sectional elevation of my clothes-dryer, with the arms spread as when ready for use.

A represents the stand, which is set in the ground, into which the pole is placed, as shown in the drawing. B is the pole. C represents the arms, which are attached to the top of the pole. D represents the braces, which support the arms. E is a sliding sleeve, to which the lower ends of the braces are secured. The other ends of the braces are jointed to the arms. The top of the pole has a band, *a*, on it, with a projecting flange, *b*, to which the ends of the arms are attached by staples, or in some other suitable manner. These arms radiate from the pole like the bows of an umbrella, and may be more or less in number. The sleeve E has ears on it, which correspond in number and position with the arms. Each arm has a brace attached to it, and to one of the ears; and the arrangement is such that the arms are extended or folded on the pole by moving the sliding sleeve E up or down. When the arms are extended the sleeve is held up by a pin or spring. *c* represents holes in the arms, through which a cord passes, upon which the clothes are hung.

The whole thing can be folded up in case of necessity, even with the clothes on it, taken from the stand, and carried under shelter.

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

As a new article of manufacture, a clothes-dryer, consisting of the sliding sleeve E, braces D, pivoted arms C, flanged band *a*, and pole B, all arranged to operate on the post A, as herein shown and described.

HENRY GRANSDEN.

Witnesses:

J. R. BECK,

D. A. KENNEDY.