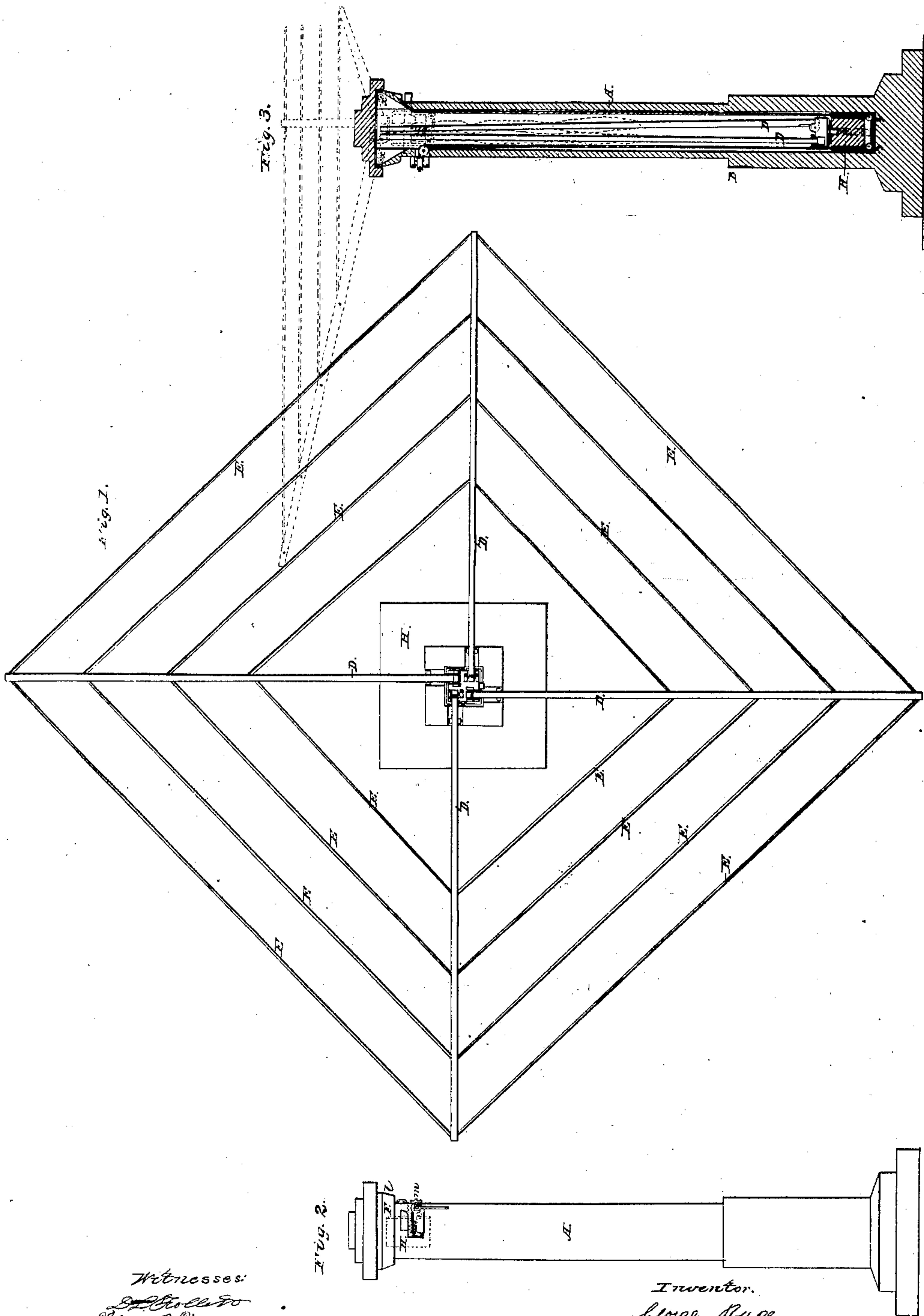


G. RACE.
CLOTHES DRIER.

No. 24,575.

Patented June 28, 1859.



Witnesses:
Edw. C. Collins
Philander B. Smith

Inventor.
George Race

UNITED STATES PATENT OFFICE.

GEORGE RACE, OF NORWICH, NEW YORK.

CLOTHES-DRIER.

Specification of Letters Patent No. 24,575, dated June 28, 1859.

To all whom it may concern:

Be it known that I, GEORGE RACE, of Norwich, in the county of Chenango and State of New York, have invented a new and
5 useful Improvement in Clothes-Reels; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specifi-
10 cation, in which—

Figure 1, is a top view of the clothes reel with the arms extended. Fig. 2, is a vertical projection of the post which incloses the arms, and Fig. 3, is a vertical longitu-
15 dinal section of the same, showing also in red lines, the arms when extended for use.

Similar letters of reference, in each of the several figures indicate corresponding parts.

My invention relates to that class of machines used for the purpose of drying clothes or other similar articles, and consists in the employment of a hollow post, which incloses the arms on which the materials to be dried rest, together with devices for raising, ex-
20 tending and lowering said arms which are hereinafter more fully described.

To enable others, skilled in the art, to make and use my invention, I will proceed to describe its construction and operation.

30 In the drawings, A, represents a hollow post which is firmly inserted in the ground. This post A, is made hollow for the reception of the arms D, D, which are hinged at their lower extremities to the head H, and
35 are connected together at their upper extremities by cords E, or other similar connections. To the bottom of the head H, are attached two pulleys *y, y*, around which passes a cord or other connection. The cord
40 is attached to the upper end of the post A, from thence it passes around the pulleys *y, y*, attached to the head H, thence passes out over pulleys at the side of the hollow post, and around a crank shaft having its
45 bearings in the upper end of the hollow post.

F, is a rack on the side of the head H, which gears into the pinion *m*, when the head is elevated.

L, is a latch on the side of the hollow post

which by sliding back and forth is made 50 to gear and ungear with the pinion *m*, on the crank shaft and thus secure the head when it is elevated.

The arms D, D, being hinged to the head H, will, when the latter is elevated, fall by 55 reason of gravity into the positions shown in Fig. 1, while they will be retained in such position by the cords E, E, which support the materials to be dried.

The operation of my invention is obvious: 60 Power being applied to the crank shaft, the head with its arms D, D, is elevated in the hollow post by the cord and pulleys described, until the head is sufficiently elevated for the pinion *m*, to gear into the 65 rack F on the head H; the head is then further raised by the rack and pinion, until the arms clear the hollow post when the former being hinged to the head, fall by reason of gravity into the position shown 70 in Fig. 1. The clothes are placed on the cords connecting the arms, or on the arms themselves. After the clothes are dried, the arms, by a reverse movement of the crank shaft may be returned to the hollow 75 post.

The advantages of my reel over those in ordinary use, consist in the protection of the arms and cords from the weather, when the machine is not in use, by their being in- 80 closed in the hollow post; the arms likewise afford no obstruction and require no room when the machine is not in use, which is important in crowded localities, and the lines do not have to be attached to the arms of 85 the reel each time that it is used.

S, is a cap which covers the hollow post to protect the arms and other devices contained in the post from the action of the weather, when not in use. 90

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

1. The employment of a hollow post inclosing the arms of the reel in which the arms may be elevated and depressed through 95 its top, in the manner and for the purpose set forth.

2. The combination of the sliding head

H, and the arms D, hinged to said head at their lower extremities and connected by cords or other equivalent connection at their upper extremities, substantially as and for
5 the purpose described.

3. The combination with the foregoing, of the cord and pulleys, the pinion *m*, rack F, and latch *l*, for elevating and securing the head H, in the hollow post, when the whole

is constructed and operated substantially in 10 the manner set forth.

The above specification of my improved clothes drier signed by me this 2d day of June 1859.

GEORGE RACE.

Witnesses:

D. L. FOLLETT,
PHILANDER B. PRINDLE.