

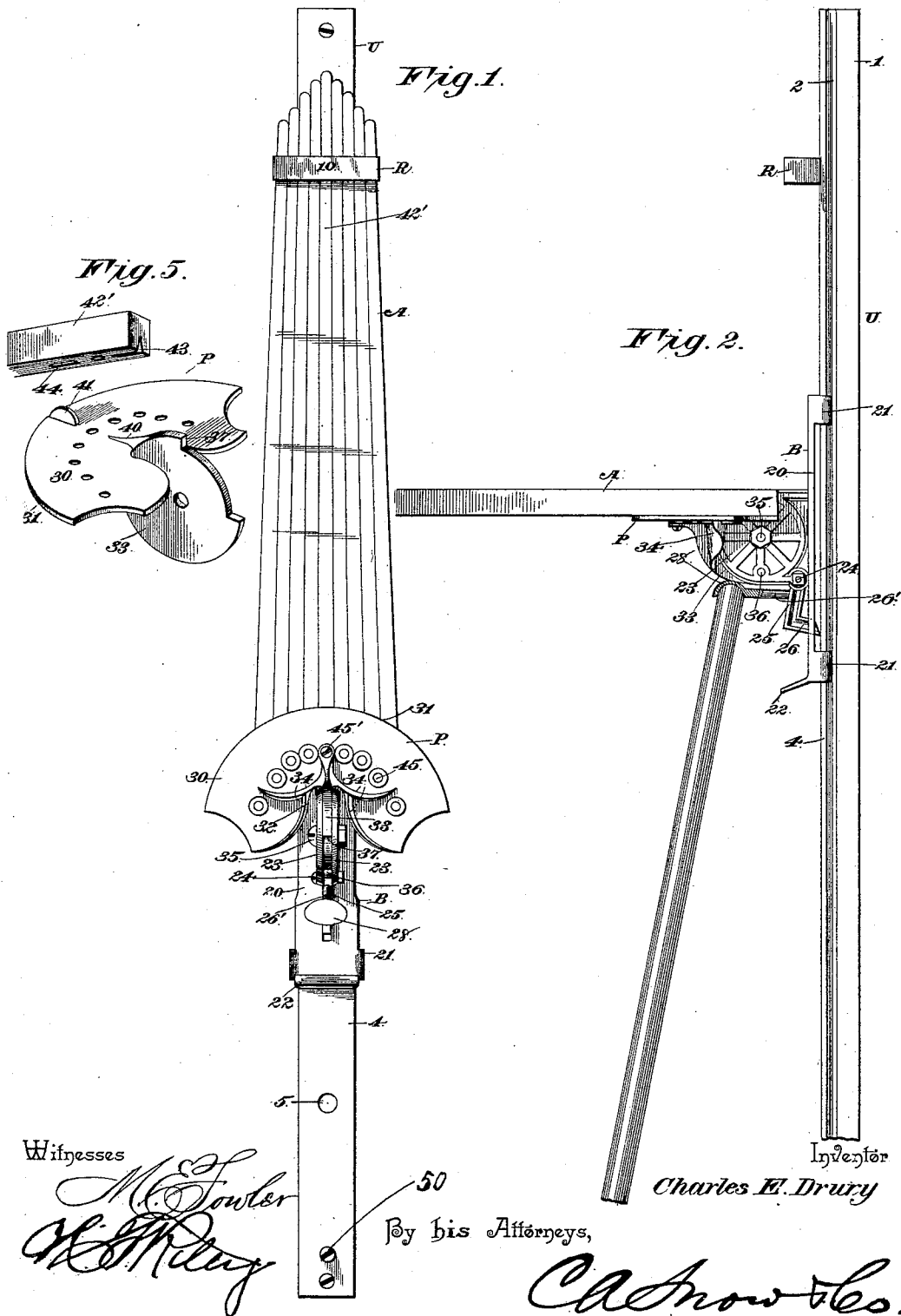
(No Model.)

2 Sheets—Sheet 1.

C. E. DRURY.
CLOTHES DRIER.

No. 484,517.

Patented Oct. 18, 1892.



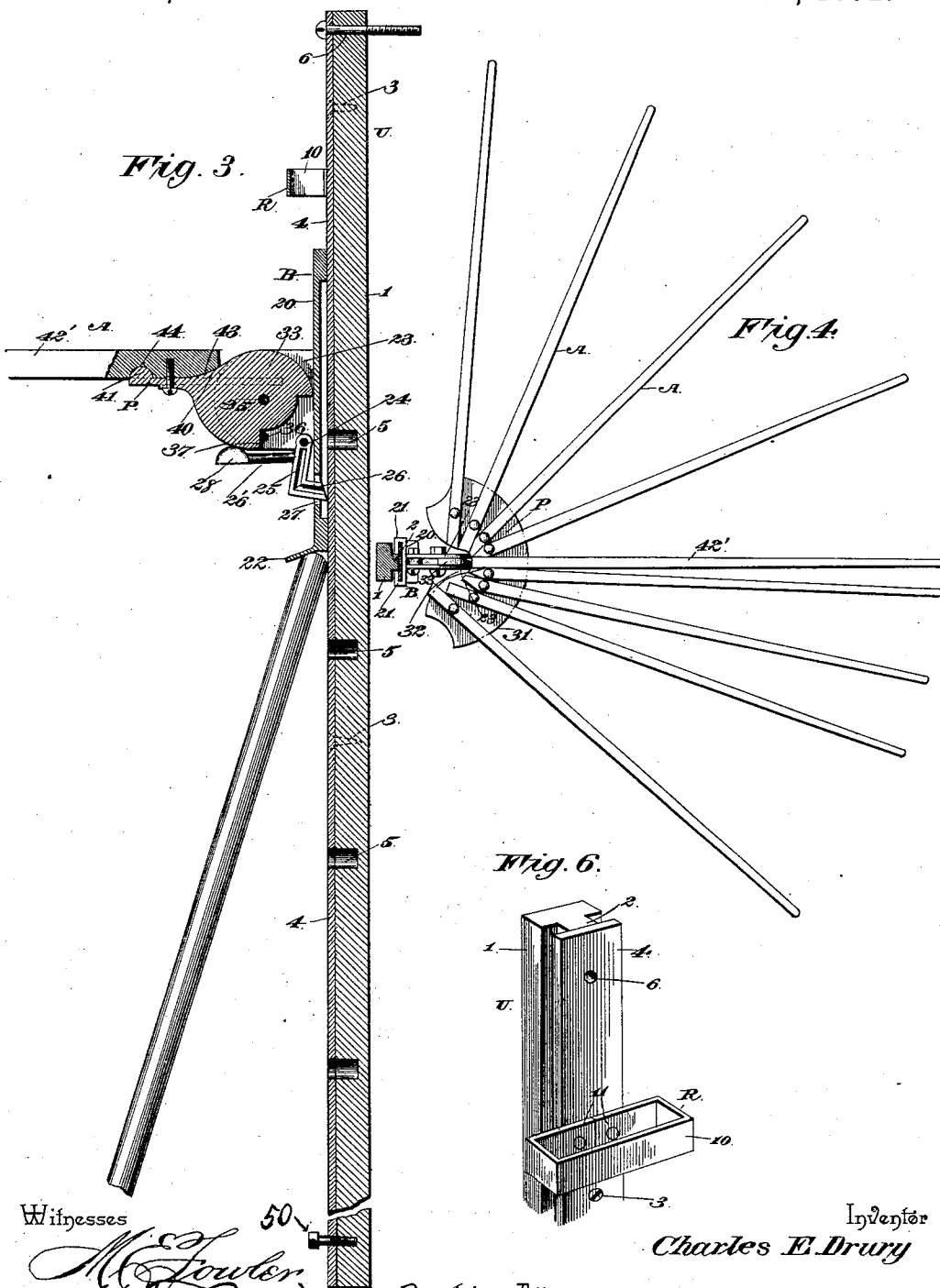
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Witnesses

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UNITED STATES PATENT OFFICE.

CHARLES E. DRURY, OF GIRARD, PENNSYLVANIA.

CLOTHES-DRIER.

SPECIFICATION forming part of Letters Patent No. 484,517, dated October 18, 1892.

Application filed January 11, 1892. Serial No. 417,713. (No model.)

To all whom it may concern:

Be it known that I, CHARLES E. DRURY, a citizen of the United States, residing at Girard, in the county of Erie and State of Pennsylvania, have invented a new and useful Clothes-Drier, of which the following is a specification.

This invention relates to clothes-driers; and the object of the same is to effect certain improvements in devices of this character.

To this end the invention consists in a clothes-drier so constructed that it may be raised to or lowered from a high point on a vertical guide on which the device slides, the whole possessing certain advantageous details of construction, all as hereinafter more fully described and claimed, and as illustrated on the two accompanying sheets of drawings, wherein—

Figure 1 is an elevation of this device in its folded position. Fig. 2 is a side elevation of the same, showing it opened and in the act of being lowered by a broomstick. Fig. 3 is a central vertical section of the device open and in the act of being raised by a broomstick. Fig. 4 is a plan view of the device with the bars at one side open and those at the other side in the act of being opened. Fig. 5 is a perspective detail illustrating the manner in which the rigid bar is locked on the plate. Fig. 6 is a perspective detail of the retaining-loop, showing how it is secured to the upright, and this figure also shows one of the fastening-screws passing through the upright for holding it to the wall.

Referring to the said drawings, the letter U designates an upright having a retaining-loop R. B is a bracket sliding on the upright. P is a plate pivoted in the bracket, and A are arms pivoted on the plate. These parts are of the specific construction described below, being preferably of metal, except the arms, and of any desired sizes, shapes, proportions, and ornamentation.

I give below what I consider the preferred form of my device, although it will be understood that considerable change in the specific construction described can be made without departing from the spirit of my invention.

The upright U.—1 is a strip (which may be of wood) having a narrow extension 2 down the transverse center of its front face.

Secured by screws 3 to this extension is a strap 4, of metal, which is as wide as the strip 1, and hence overlaps the edges of the narrow extension 2, making the whole upright of approximate I shape in cross-section. 5 are holes bored through the metal strip 4 and into the extension 2. 6 are holes completely through the upright, and through these holes may be passed nails, screws, or bolts for securing the upright to a vertical wall or other support. The upright is of sufficient length to reach nearly or quite to the ceiling of an ordinary room.

The retaining-loop R.—As best seen in Fig. 6, this loop consists of a strap 10 of sheet metal bent into the shape of an oblong, and through its ends 11 are passed rivets or bolts, which secure it to the upright near the upper end of the latter.

The bracket B.—This is preferably a metal casting comprising a vertical body 20, having lips 21 at its corners, which surround and slide on the edges of the metal strap 4 and having a thumb-piece 22 at its lower end. Projecting outward from the face of this body is a pair of ears 23, and mounted on a pivotal rivet 24 at the base of these ears and near their lower edges is a catch 25, having a foot 26, which projects through a slot 27 in the body and is adapted to be seated in the holes 5 by its gravity. 26' is an integral arm projecting from this catch and having an inverted cup 28 at its outer end.

The plate P.—30 is a plate of sector shape, except that from the center, on which the curved edge 31 is struck, a deep notch 32 is formed in the center of the plate. From this notch projects a web 33, standing in a vertical plane and at right angles to the plane of the plate, the web being strengthened by suitable braces 34, the whole being cast integral. 35 is a rivet through the two ears 23 and on which the web is pivoted between such ears, and 36 is another rivet through the ears below the pivot-rivet 35, a shoulder 37 being formed in the web at such point that it will bear against this stop-rivet 36 when the plate is horizontal.

The arms A.—In Fig. 5 it will be seen that where the web joins the upper side of the plate a narrow fin 40 is formed, and 41 is a lug cast on the upper side of the plate near

its outer edge and immediately in line with this fin. 42' is a wooden arm having a notch 43, which engages the fin, and a recess 44, which passes over the lug, and 45' is a rivet (or this 5 may be a screw) passing up through the plate between the fin and lug and through or into the arm to hold the latter rigidly and firmly on the plate. 42 are other arms arranged in series at each side of this rigid arm and pivotally connected to the plate by rivets 45, and 10 the inner ends of these arms are of the specific shape shown, whereby when the outermost arm of either series is moved around its pivot away from the rigid arm all the arms 15 will be opened automatically, as illustrated in Fig. 4.

The operation.—When not in use, the arms are folded together, raised, passed through the retaining-loop, and held there by engaging 20 the catch 25 with one of the holes 5, as seen in Fig. 1. To use the device, the catch is tripped, the bracket lowered, so that the arms will draw out of the retaining-loop, the plate turned down to a horizontal position, and the arms 25 opened, when the device will present nearly the appearance seen in Fig. 4. Clothes or other articles to be dried are then hung on the various arms, and the operator grasps the thumb-piece and raises the bracket, so that 30 the clothes will clear the floor. In Fig. 3 is shown the manner in which the bracket can be raised nearly to the ceiling, and in Fig. 2 it is being lowered from this position. In either case some convenient article—such as 35 a broomstick—can be inserted under the thumb-piece or in the cup to respectively raise or lower the bracket. The latter movement is obviously effected by raising the cup and tripping the catch, a screw 50 projecting 40 from the upright and forming a stop to prevent the bracket from leaving or dropping off of the upright.

What is claimed as new is—

1. In a clothes-drier, the combination, with 45 an upright having holes, of a bracket sliding

on said upright and having a thumb-piece at its lower end and a slot in its body, clothes-carrying arms supported by said bracket, a catch pivoted to the bracket and having a foot projecting through the slot therein and adapted 50 to engage one of said holes, and an outwardly-projecting arm on said catch having an inverted cup, as and for the purpose set forth.

2. In a clothes-drier, the combination, with 55 a vertically-adjustable bracket having two outwardly-projecting ears connected by a central pivot-rivet and by a stop-rivet below it, of a plate having a deep notch in its rear edge, a web within this notch and connected by 60 braces with the plate, the web being mounted on said pivot-rivet and having a shoulder engaging the stop-rivet when the plate is horizontal, and clothes-carrying arms upon and connected by pivot-rivets with said plates, as 65 and for the purpose set forth.

3. In a clothes-drier, the combination, with a vertically-adjustable bracket having two outwardly-projecting ears connected by a central pivot-rivet and by a stop-rivet below it, of 70 a plate having a deep notch in its rear edge, a web within this notch and connected by braces with the plate, the web being mounted on said pivot-rivet and having a shoulder engaging the stop-rivet when the plate is horizontal, a fin on the web above the plate, a lug 75 on the plate in line with said fin, a rigid arm having a notch engaging the fin and a recess engaging the lug, a screw passing through the plate into the arm, and other arms pivotally mounted on the plate each side of the rigid arm, as and for the purpose hereinbefore set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in 85 the presence of two witnesses.

CHARLES E. DRURY.

Witnesses:

CALVIN J. HINDS,
L. D. HART.