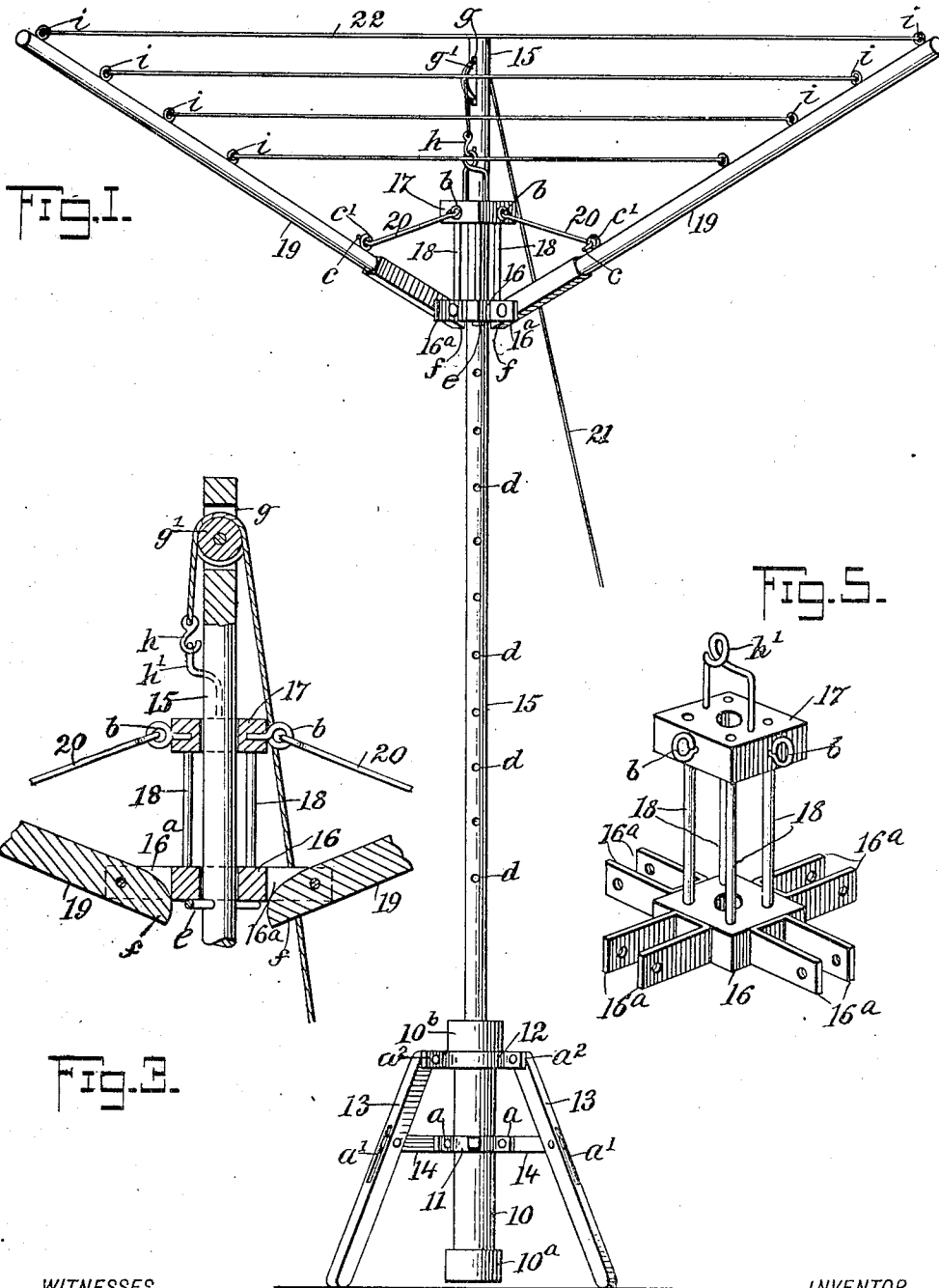


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CLOTHES DRIER.
APPLICATION FILED SEPT. 6, 1907.

904,319.

Patented Nov. 17, 1908.

2 SHEETS—SHEET 1.



WITNESSES

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INVENTOR

Leander Duncan
BY *Mumma & Co.*
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FIG. 2.

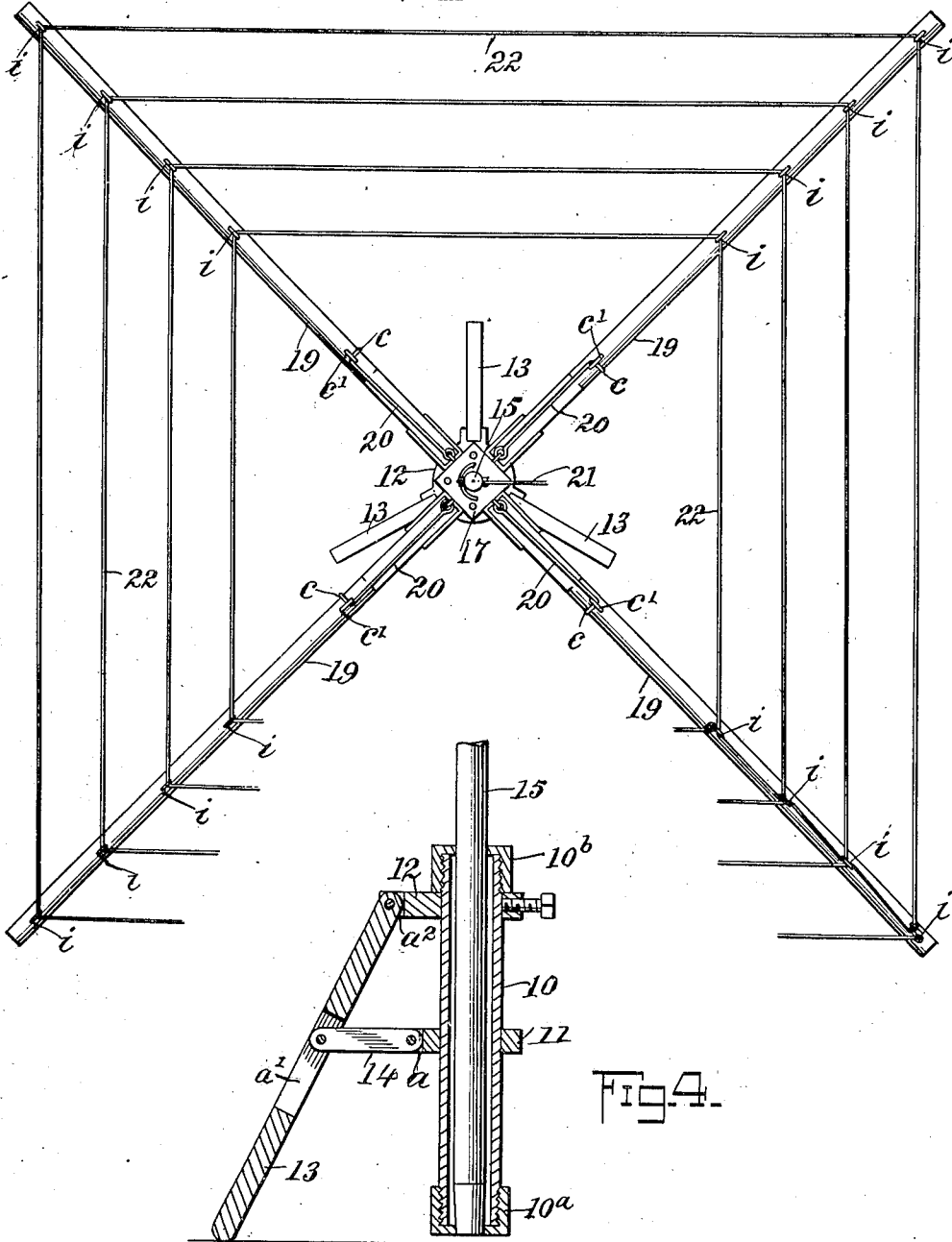


FIG. 4.

WITNESSES

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UNITED STATES PATENT OFFICE.

LEANDER DUNCAN, OF BUTTE, MONTANA.

CLOTHES-DRIER.

No. 904,319.

Specification of Letters Patent.

Patented Nov. 17, 1908.

Application filed September 6, 1907. Serial No. 391,613.

To all whom it may concern:

Be it known that I, LEANDER DUNCAN, a citizen of the United States, and a resident of Butte, in the county of Silverbow and State of Montana, have invented a new and Improved Clothes-Drier, of which the following is a full, clear, and exact description.

This invention relates to clothes or other fabric driers, of a class wherein a base, a mast thereon, and a drier frame mounted on the mast, are employed for exposure of the fabric to the open air and sun to dry the same.

The object of the invention is, to provide a drier of the class indicated, embodying novel details that adapt it for convenient service, render it light, strong, durable and easy to erect in or out of doors, and permit parts thereof to be closely folded into a compact package when not in use.

The invention consists in the novel construction and combination of parts as is hereinafter described and defined in the appended claim.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of the improved drier erected for use; Fig. 2 is a plan view of the same; Fig. 3 is an enlarged sectional side view of the upper portion of the drier frame; Fig. 4 is a sectional side view of the base portion of the drier; and Fig. 5 is a perspective view of a carrier frame that is a novel detail of the drier frame.

A feature of the improvement consists in the particular construction of the base of the drier, which embodies the following details.

A tubular post 10, is formed with a step box 10^a at its lower end and a cap piece 10^b having a central circular opening therein, preferably of less diameter than that of the post, is mounted upon the upper end of the latter. Preferably the parts 10^a and 10^b are cast from metal. Upon the post 10, between its ends a bracket ring 11, is mounted and secured, said ring having three pairs of ears *a*, projected therefrom at equal distances apart. A similar bracket ring 12 is secured upon the upper end of the post 10, having three pairs of ears *a*² formed thereon and each pair being positioned directly above a pair of ears *a*. Three similar legs 13 are

respectively pivoted at their upper ends between a pair of the ears *a*², and project downward, having somewhat greater length than the post 10. In each pair of ears *a*, one end of a brace bar 14 is pivoted, said bars having an equal length. At suitable points between their ends, each leg 13 is longitudinally slotted, and in said slots *a'* the outer ends of the brace bars 14, are respectively pivoted.

It will be seen from the foregoing description that the legs 13, may be spread apart an equal distance from the post 10, that is defined by the length of the brace bars 14, or if desired the legs and brace bars may be together folded toward the lower end of the post, and thus adapt the structure for close folded adjustment. A mast 15, preferably in the form of a metal tube, fits loosely in the cap piece 10^b of the post 10, and extends down through the latter, at the lower end thereof seating in the step box 10^a as shown in Fig. 4, whereby the mast is supported in the post loosely, and may receive rotation when the mast and post are erected from the ground or other stable support. A carrier frame which is a portion of the clothes supporting frame, comprises two preferably flat cast metal rectangular blocks 16, 17 that are spaced apart and firmly connected together by four stretcher rods 18, that are respectively affixed at their ends in the blocks near corresponding corners thereof, as is clearly shown in Fig. 5. From each peripheral wall of the four sided block 16, which is the lowermost one on the carrier frame, a pair of spaced hinge leaves 16^a project radially, and between each pair of hinge leaves, one end of a spider arm 19 is pivoted. The four spider arms 19 are alike, and in service incline outward and upward from the carrier frame, their upward trend being produced by impinging the heel *f* of each arm against the lower edge of the block 16, as is clearly shown in Figs. 1 and 3. The spider arms 19 are further supported by four hookbars 20, one for each arm, said hookbars having one end of each loosely secured to the upper frame block 17, by means of eyebolts *b* or the like, the hook member *c* on the other end of each hookbar being hooked into an eyebolt or staple *c'* that project from the upper side of a corresponding arm 19.

The construction of the carrier frame shown and described, and means for supporting the spider arms 19 therefrom is advantageous, as it affords a very strong, light,

5 durable, sliding connection for the spider arms with the mast 15, and corrects a weakness found in some devices for a similar purpose. In the mast 15 at intervals a plurality of transverse perforations *d* are formed, into either of which may be inserted a keeper pin *e* below the carrier frame block 16, and obviously when the pin is in position, the carrier frame will be supported thereon.

10 In a transverse slot *g* formed in the mast 15 adjacent to its upper end, a grooved pulley *g'* is inserted and pivoted, said pulley affording support for a small rope 21, that passes through the slot *g* above the pulley. 15 One end of the rope 21 is furnished with a hook *h*, that engages an eye formed on a straddle piece *h'* that projects from the upper side of the frame block 17, and from the pulley *g'* the remaining portion of the rope 20 21 is extended downwardly to be convenient for manipulation. Upon the spider arms 19 at proper distances apart, ring eyes *i*, or the like are secured, and through said eyes a clothes supporting line 22 is roven, the line 25 being stretched taut, which completes the supporting frame of the drier.

To place garments or other fabric upon the line 22, after first removing the keeper pin *e* the cord 21 is paid out by one holding the pendent portion thereof, so as to lower the frame whereon the line is stretched, which will permit free access to said line for hanging the goods thereon. The rope 21 is now drawn so as to raise the drier frame 35 on the mast 15, and the keeper pin *e* is placed in an adjacent perforation *d*, which will afford support for the drier frame and lock the latter upon the mast, which will rotate in the post 10 on the step 10^a, when 40 turned by the wind that engages the fabric

hung on the drier frame. The dried fabric may be readily removed from the drier frame if the latter is lowered as before explained, and other clothing may be placed thereon if that is desired.

45 At any time the entire device may be dismantled and packed into a compact bundle by first folding the spider arms upward on the carrier frame, and then removing the mast from said carrier frame and from the base post 10, the legs of which may then be folded, so that the entire details of the apparatus may be readily placed side by side and wrapped with the rope 21 which will secure the several parts in a compact package. 55

Having described my invention, I claim as new and desire to secure by Letters Patent:

In a device of the character described, an expansible base, comprising a tubular post, 60 a step box on the lower end of the said post, an annular cap piece on the top of the post, a ring having a plurality of radial hinge leaves thereon, a plurality of legs pivoted by one end of each between pairs of said hinge leaves, said legs having slots therein, 65 a second ring on the post between its ends and having a plurality of leaves projected radially therefrom, and brace bars pivoted by one end of each between pairs of said hinge leaves, and at opposite ends thereof in 70 respective slots in the legs.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

LEANDER DUNCAN.

Witnesses:

FRED R. HINKLE,
PHILIP L. MILLER.