No. 869,673. PATENTED OCT. 29, 1907.

S. E. WILSON.

CLOTHES DRIER.

APPLICATION FILED JAN. 5, 1907.

2 SHEETS—SHEET 1.

Fig. 1

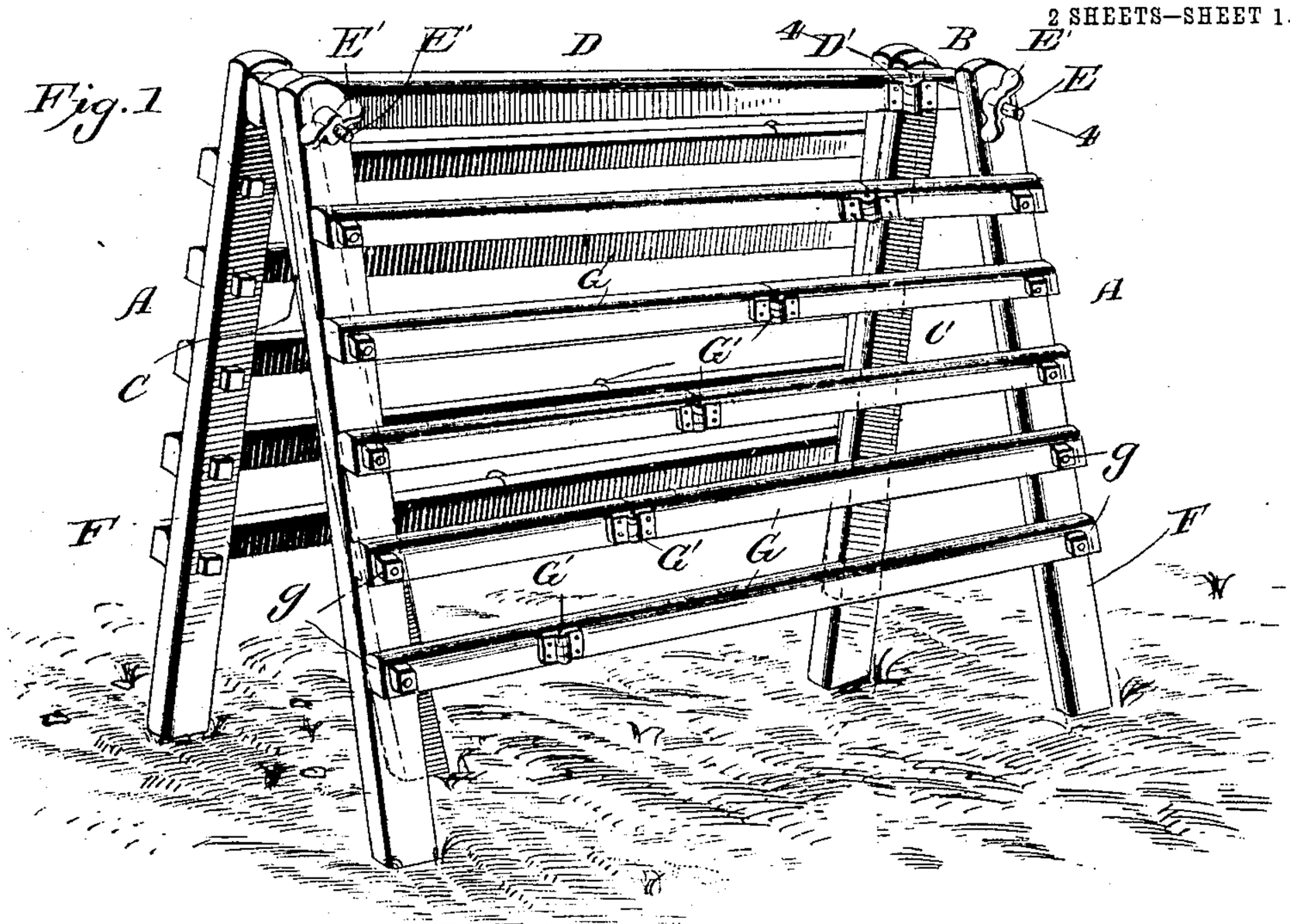


Fig. 2

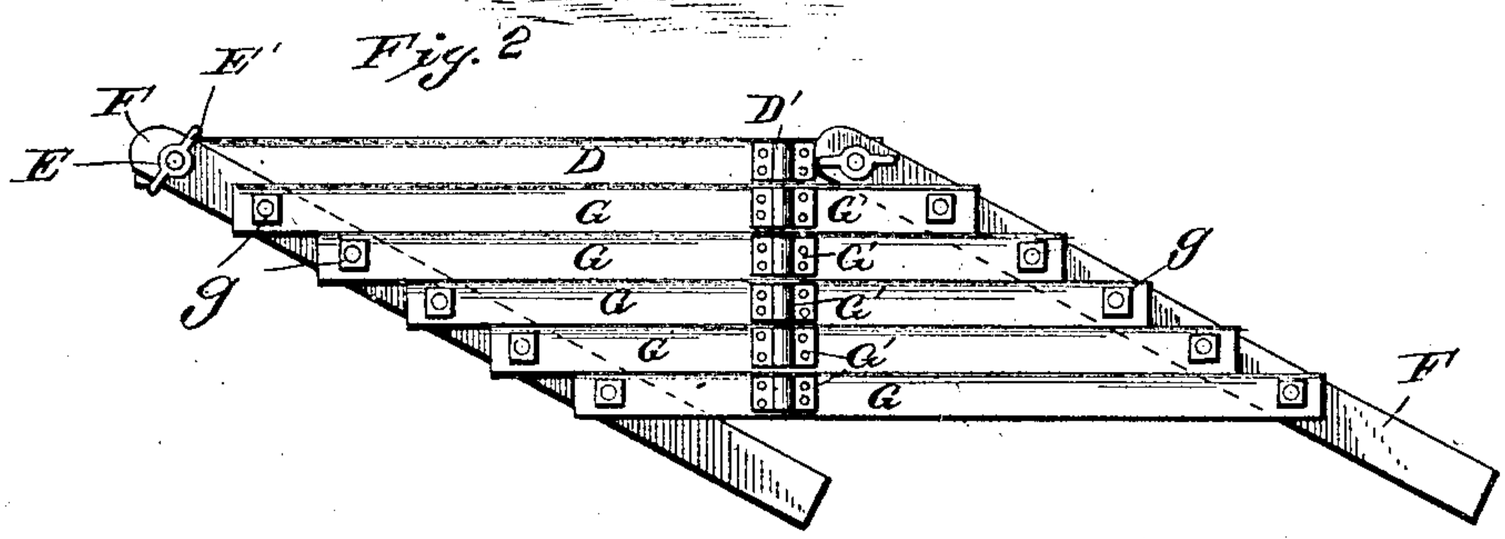


Fig. 3

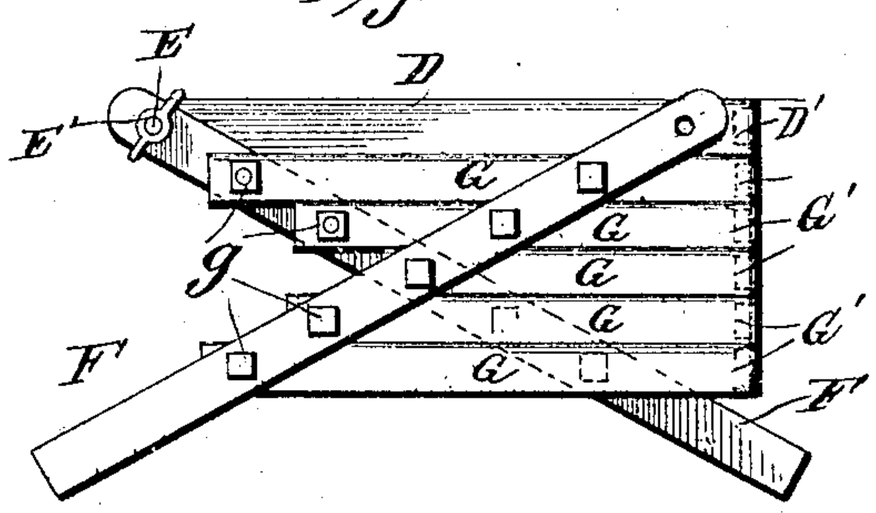
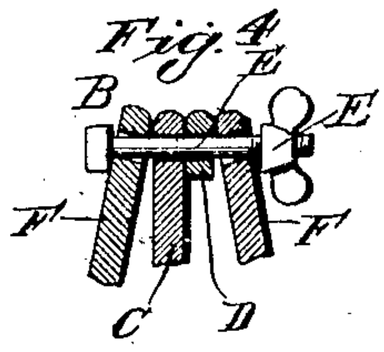


Fig. 4



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Perry B. Turpin.

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2 SHEETS—SHEET 2.

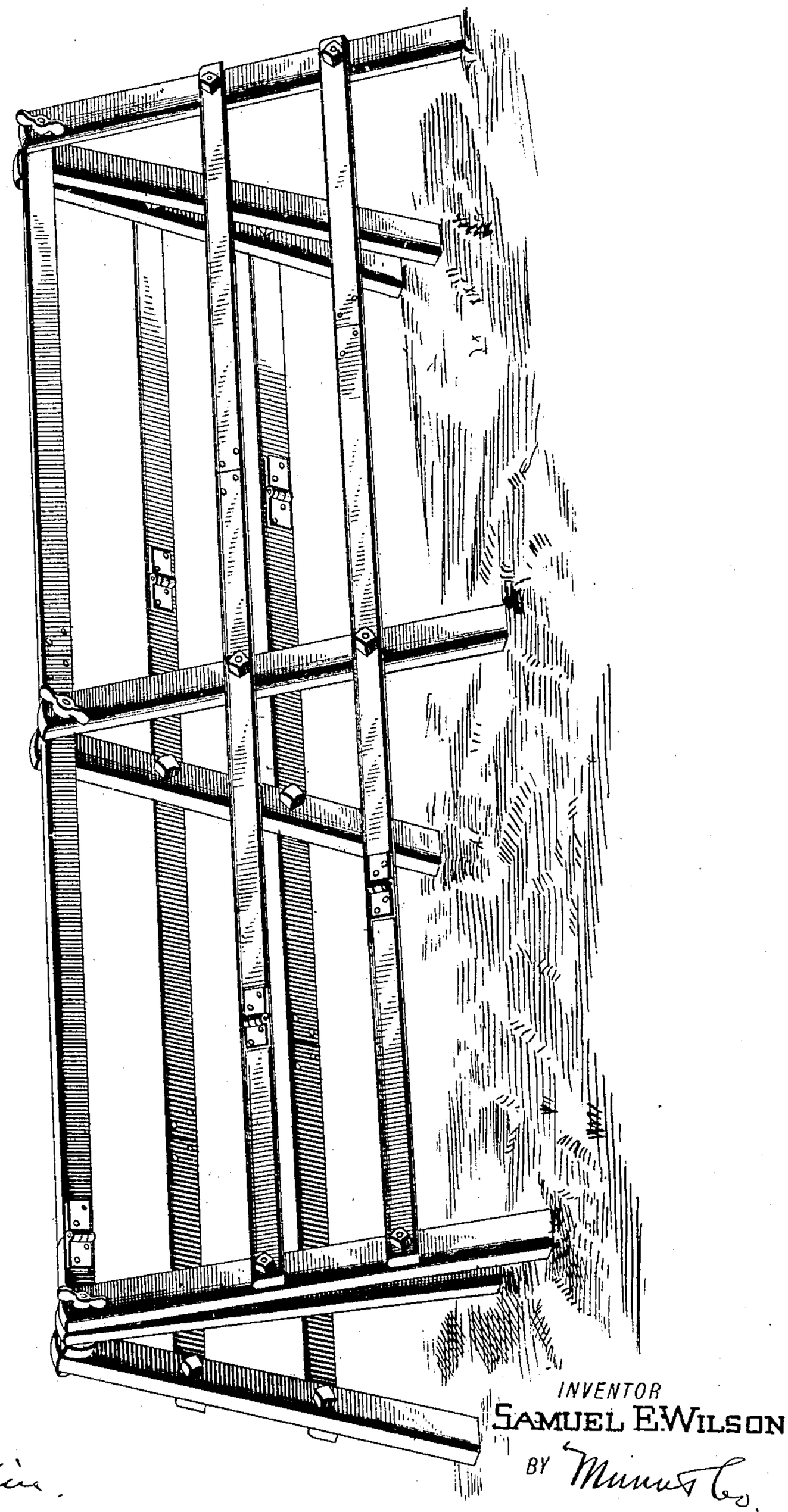

Fig. 5

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CLOTHES-DRIER.

No. 869,673 Specification of Letters Patent. Patented Oct. 29, 1907.

Application filed January 5, 1907. Serial No. 350,894.

To all whom it may concern:

Be it known that I, SAMUEL ELMORE WILSON, a citizen of the United States, and a resident of Franklin, in the county of Simpson and State of Kentucky, have made certain new and useful Improvements in Clothes-Driers, of which the following is a specification.

My invention is an improvement in clothes driers and consists in certain novel constructions and combinations of parts as will be hereinafter described and claimed.

In the drawing—Figure 1 is a perspective view of a clothes drier embodying my invention. Fig. 2 is a detail side elevation of one of the drying sections collapsed to bring the hinges of the supporting bars into alinement, and Fig. 3 is a side elevation of such section folded. Fig. 4 is a detail cross section, on about line 4—4 of Fig. 1, and Fig. 5 is a perspective view showing a plurality of drying sections with the tripods at the ends only.

My drier as shown comprises a plurality of sections or frames, shown in Fig. 1 as two sections A, A, adjustably connected at their upper ends at B in connection with upright braces C between the sections A and a supplemental supporting bar D arranged between the frames at the upper ends of the latter and secured by the bolts E which connect the opposite frames A at their upper ends and fit loosely in holes in said frames so the frames A can be adjusted outward at their lower ends, the bolts operating after the fashion of hinges as will be understood from Fig. 1 of the drawing. The sections A are alike and a description of one will answer for both. As shown, I make the sections with the end bars or battens F and the supporting bars G extending between the battens F and pivoted at their ends at g to the said battens. These supporting bars G are made in sections hinged together at G′ between their ends and the hinges G′ of the several bars G are arranged at different distances from the battens F so that when the said battens are adjusted to the position shown in Fig. 1 in which they are approximately at a right angle to the bars G, the hinges G′ of the bars G will be out of alinement as shown in the said Fig. 1 so that the drying frames will be held from collapsing while the battens are at a right angle to the supporting bars. At the same time by tilting the battens as shown in Fig. 2 the several hinges G′ may be brought into alinement as shown in the said Fig. 2 when the frame can be folded on the axis of the hinges G′ from the position shown in Fig. 2 to that shown in Fig. 3, in order to compactly store the several frames whenever desired. This relation of the hinges G′ to the several bars G and to the end battens is an important feature of my invention as it provides practically a rigid drying frame when the parts are adjusted for use as shown in Fig. 1 and yet permits of the folding of the parts of the drying frame when the latter is collapsed.

The braces C are secured between the drying frames at the upper ends of the latter by the same bolts E that connect the opposite drying frames, winged nuts E′ being provided on the bolts E so the parts can be readily secured and released without the necessity of using wrenches. These bolts also secure the supplemental supporting bar D which is arranged between the drying frames at the upper ends of the latter and enables the support to be used for drying large articles.

The braces C may be adjusted at their lower ends to bear upon the ground or floor at suitable points to properly brace the drying rack in any desired position.

Manifestly the rack may be made in different sizes and of such size as to best serve the particular purpose for which it is intended, small sizes being made for domestic use, while larger sizes may be made for use in laundries.

In practice I make the hinges, the several bolts, nuts and other metallic parts, of galvanized iron, brass or other non-oxidizable metal so that the clothing will not be rusted when hung on any portion of the rack or if desired large sheets or other large articles may be thrown over the top of the rack whenever desired without any danger of rusting from any of the parts with which they may come in contact.

As shown and preferred the intermediate or supplemental supporting bar D extends diagonally across the top of the drying rack, being secured at one end on one side of a brace C and at its other end on the opposite side of the other brace C and this bar D is hinged at D′ in such manner that it will not interfere with the collapsing of the drying section with which it may be connected in collapsing the drier.

It will be noticed that the braces C may be adjusted at their lower ends toward each other so that they stand within the clothes horse and do not require any extra floor space.

In practice it may be desirable to construct extra large sizes of the drying horse for laundry drying rooms, lawns and roofs comprising an extra section or sections with their end bars or battens secured by the bolts E and having their hinges placed on the inner side of the supporting bars to allow them to fold back over the intermediate section after the same is folded over the first section and additional sections may be employed by alternating hinges indefinitely as will be understood.

Where it is desired to provide a large drier, the construction shown in Fig. 5 may be employed in which two sections of the drier are united and tripods are provided at the ends of the complete drier to support the same, the hinges on the bars at the opposite sides of the sections being arranged with the knuckles or pintles at the inner sides of the bars as shown in Fig. 5.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is—

1. The clothes drier herein described comprising opposite

drying sections composed each of battens and supporting bars extending between the same and composed of sections hinged together with the hinges of the different supporting bars arranged at different distances from the battens when the latter are adjusted to a position at approximately a right angle to the supporting bars, whereby the drying sections can only be folded, when collapsed, and in position to bring the hinges of the several supporting bars in alinement, the brace bars arranged at their upper ends between the upper ends of the battens of the drying sections, the supplemental supporting bar arranged between the upper ends of the drying sections and the bolts and nuts connecting the drying sections at the upper ends thereof and securing the supplemental supporting bar and the braces, substantially as and for the purposes set forth.

2. In an apparatus substantially as described a section comprising upright battens and supporting bars extending between and pivoted to the end bars or battens and composed of sections hinged together with the several hinges arranged out of alinement in the normal position of the parts and adapted to be brought into alinement when the section is collapsed in order to fold the section on the axis of the alined hinges, substantially as set forth.

3. A section for clothes driers composed of battens and supporting bars composed of sections hinged together between the end bars or battens, the hinges of the several bars being at different distances from the battens whereby when the section is adjusted to position for use the hinges will be out of alinement and will be brought into alinement by collapsing the section, as set forth.

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Witnesses:
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