

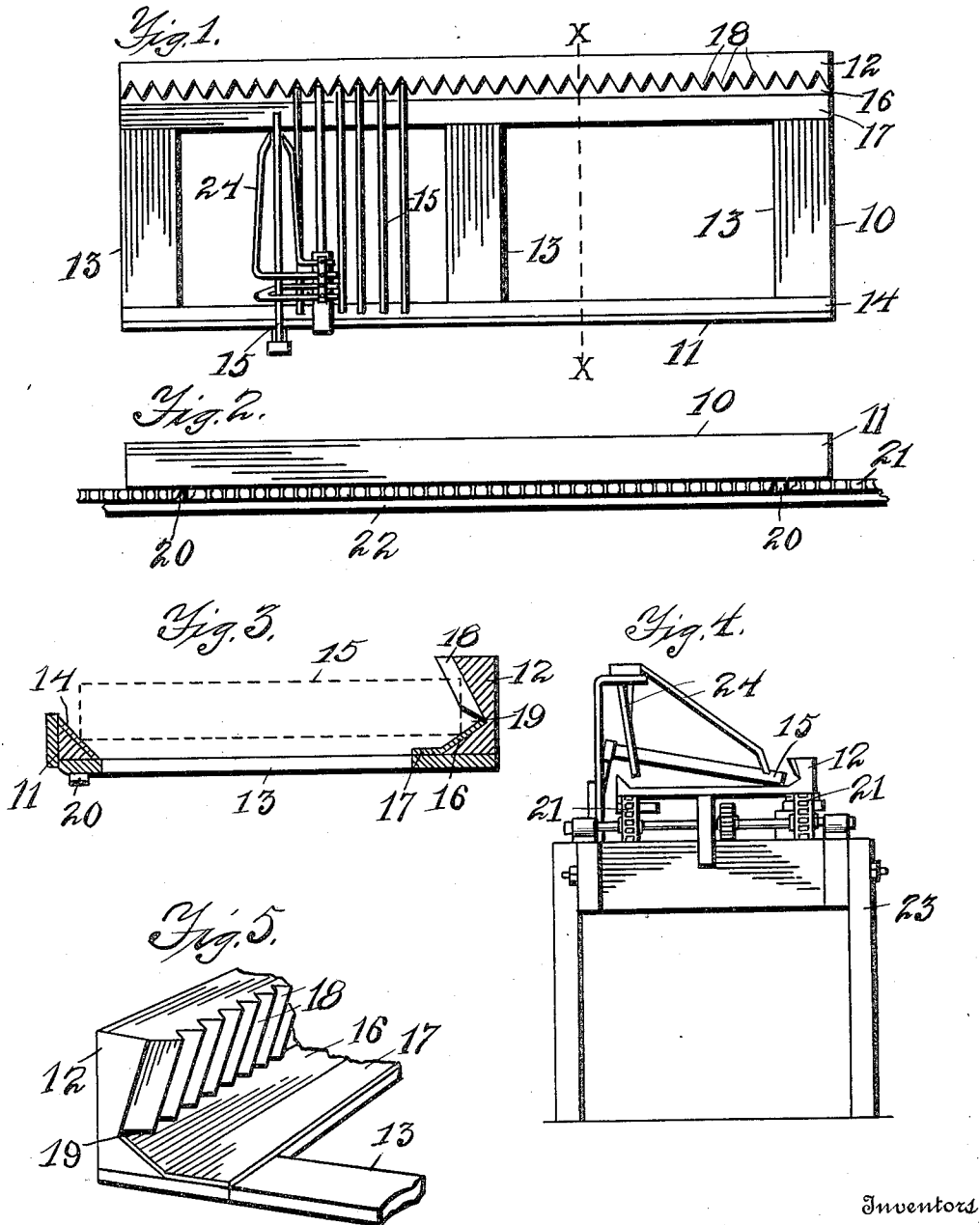
F. J. BALDER, F. J. LAWSON & A. C. DAVIS.

DRYING RACK.

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1,036,420.

Patented Aug. 20, 1912.



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UNITED STATES PATENT OFFICE.

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DRYING-RACK.

1,036,420.

Specification of Letters Patent.

Patented Aug. 20, 1912.

Original application filed August 28, 1911, Serial No. 646,449. Divided and this application filed October 14, 1911. Serial No. 654,574.

To all whom it may concern:

Be it known that we, FRITZ J. BALDER, FRANK J. LAWSON, and ALFRED C. DAVIS, citizens of the United States, and residents of Falconer, in the county of Chautauqua and State of New York, have invented new and useful Improvements in Drying-Racks, of which the following, taken in connection with the accompanying drawings, is a specification.

The invention relates to drying racks for coated rulers, strips and similar articles, and is a divisional application from an application for Letters Patent on a varnishing machine for rulers, filed August 28th, 1911, and given Serial No. 646,449; and the object of our invention is to provide a simple and convenient drying rack into which the rulers or other articles may be placed so that they are separate from one another and have as slight a contact with the said drying rack as is possible while holding them in an upright position; and the invention consists in the combination and arrangement of the parts as shown in this specification and the accompanying drawings and pointed out in the claims.

In the drawings, Figure 1 is a plan view of the drying rack showing some varnished rulers in position thereon and the placing mechanism guiding one of the rulers into position thereon. Fig. 2 is an elevation of one of the edges of the drying rack as it rests upon the sprocket chain which carries the rack, said sprocket chain being broken away to show the projecting blocks on the under side of the rack which engage in the openings in the links thereby removably attaching said rack to the sprocket chain so that it is carried along by the chain. Fig. 3 is a sectional view of the drying rack at line X X in Fig. 1, a ruler or strip being shown in dotted outline in position for drying upon the rack. Fig. 4 is an endwise elevation of a portion of the varnishing machine showing the drying rack in position upon the sprocket chains, one of the rulers being shown in passage as it is dropping upon the drying rack and being guided to an individual notch thereon. Fig. 5 is a perspective view of a portion of the drying rack

showing the under cut notched side and the individual notches thereon.

Like numerals of reference apply to corresponding parts in the several views.

The numeral 10 designates the drying rack which consists of a frame or rack consisting of two lengthwise sides 11 and 12 connected by strong cross rails 13 so as to make a light yet rigid rack. The rack side 11 is provided on its upper side with an inwardly inclined surface 14 which surface is preferably faced with sheet metal so that it may be quickly and readily cleansed of the dripping varnish from the rulers and strips 15. The side 12 is raised considerably higher than the side 11 and overhangs on its inner side. A sheet metal faced inwardly inclined surface 16 is provided in the lower portion of side 12, being inclined oppositely to inclined surface 14 so as to receive the opposite lower corner of the ruler 15 thereon. The inclined surface 16 is continued in a flat portion 17 to receive and be sure of catching the end of the ruler or strip as it drops upon the rack 10 and is then pushed up the incline 16 into place against the side 12.

In order to hold the rulers upright and apart, the upper portion of the side 12 is provided with spaced notches 18 which are either cut into the wood or formed from sheet metal and preferably have sloping sides which permit only the corners of the rulers 15 to touch therein. The notched portion of the side 12 slants downwardly toward the inclined surface 16 so as to overhang said inclined surface 16 thereby allowing only the upper corners of the ruler 15 to touch within the notches 18. The lower end of the projecting notched portions 18 are cut away at 19 just above the inclined surface 16 so that the said inclined surface may be easily lined with the sheet metal and also that the liquid coating material may drop down upon said inclined surface.

On the under side of rack 10 projecting blocks 20 are provided which are fitted to engage within the openings in the links of the sprocket chains 21. The placing of the blocks 20 on one side is sufficient to carry the rack, and two blocks near the ends of the

rack are preferred since they keep the rack in line with the sprocket chain. Said blocks 20 are spaced according to the openings in the sprocket chains 21.

5 The sprocket chains are supported upon a board 22 and the frames 23 of the machine and suitable means is provided for moving the sprocket chains. The guides 24 are provided on the machine for guiding the rulers 10 15 into place on the drying rack, and suitable mechanism is also provided for pushing said rulers into place within the spaced notches 18, said mechanism being arranged to automatically push said rulers or strips 15 into place in the notches; the speed of the sprocket chains being regulated to the action of the mechanism for placing the rulers.

In use, the racks 10 are placed upon the 20 sprocket chains, it being easy to place the projecting blocks 20 within the openings in the links of the sprocket chain and to remove the same therefrom. The racks 10 are placed upon the sprocket chains before they 25 reach the guides 24 and delivery mechanism for the rulers, and said guides and delivery mechanism will automatically place a ruler in each of the notches 18, standing said ruler on edge with its two lower corners 30 resting upon inclines 14 and 16, and the upper corner at one end supported within the notch 18, thereby giving but slight contact of the rulers with the drying rack and preserving the sides and edges of the ruler in 35 their freshly coated condition so that they dry without contacting one another or being marred in any way. As the rack 10 passes the delivery mechanism and guides and is filled with rulers it is removed from 40 the chains and set aside for drying.

It is obvious that the rulers can be quickly gathered from the rack when they are fully dried, since the ends of the rulers, which rest upon the surface 14 have nothing to prevent their being quickly pressed together 45 thereby removing all the ends of the entire

number of rulers from the notches 18 and permitting their being pressed together and removed at one operation.

We claim as new—

1. A drying rack for liquid coated articles comprising a frame composed of side and cross rails, the side rails of said frame oppositely inclined to support said articles on their lower corners, and one of said side rails 55 higher than the other and having V-shaped spaced notches therein to receive and hold the coated articles in the upright position.

2. A drying rack for liquid coated articles comprising a frame, the sides of said 60 frame arranged to support said articles, and one of said sides higher than the other and having over hanging spaced notches therein to receive and hold the coated articles in an upright position. 65

3. A drying rack for liquid coated articles comprising a frame, the sides of said frame arranged to support said articles, one of said sides higher than the other, having 70 over hanging spaced notches therein to receive and hold the coated articles in an upright position, and projections on the under side of said frame to engage a sprocket chain.

4. A drying rack for liquid coated articles 75 comprising a frame, a raised side on said frame, said raised side having over hanging spaced notches, an incline at the lower ends of said notches, and the opposite side of said frame oppositely inclined to receive and 80 hold the coated articles in said spaced notches on said inclines.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

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Witnesses:

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