

M. F. JOHNSON.
Sizing-Plank for Hatters.

No. 165,735.

Patented July 20, 1875.

Fig 1.

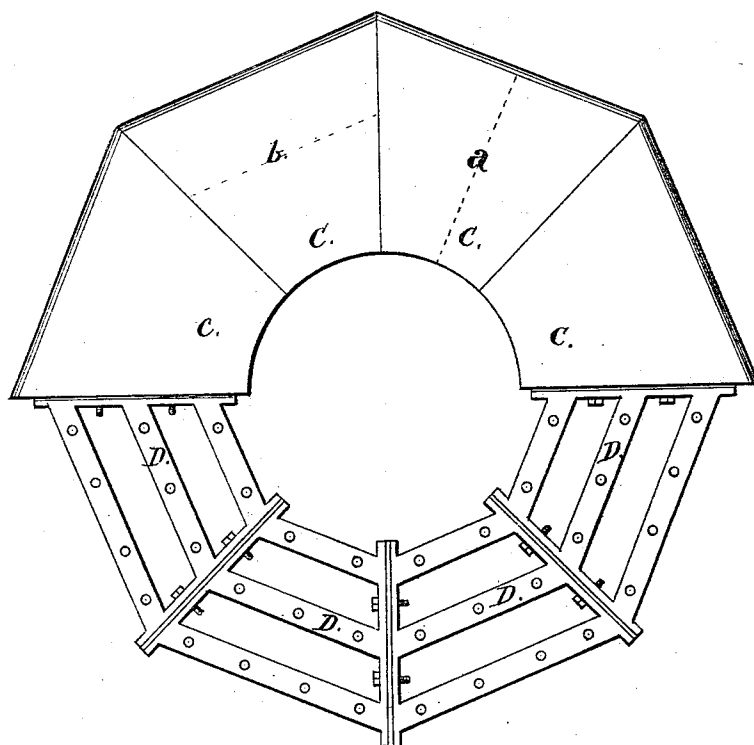
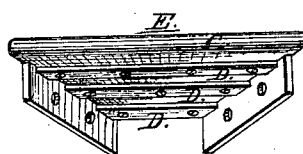


Fig 2.



Witnesses

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UNITED STATES PATENT OFFICE.

MOSES F. JOHNSON, OF NEWARK, NEW JERSEY.

IMPROVEMENT IN SIZING-PLANKS FOR HATTERS.

Specification forming part of Letters Patent No. **165,735**, dated July 20, 1875; application filed November 27, 1874.

To all whom it may concern:

Be it known that I, MOSES F. JOHNSON, of the city of Newark, in the county of Essex and State of New Jersey, have invented certain Improvements in the Construction of Sizing-Planks for Hatters, of which the following is a specification:

The object of the invention is obtaining a substantial, durable sizing-plank, the parts thereof securely combined, affording better facilities for repairs, and having the grain of the wood in the direction desirable, but not practicable in the present mode of construction. To obtain these advantages I provide metallic frames, as light as consistent with strength, in shape corresponding with the angular sections of the plank, screwing one to each section. Each frame, having flanged sides, is thereby made stable by being bolted together, nevertheless permitting the removal and replacing any one of the sections when it becomes defective.

As at present constructed, the sections are held together by toe-nailing on their under sides, requiring about four inches of thickness of wood to give edge-bearing sufficient to give stiffness to the whole when combined, and to allow the use of long nails without the points of the nails being near the working face of the wood. The alternate and unequal wetting and drying of one side of the wood sections, with their great width at their outer

ends, occasion annoyance from the certain splitting sooner or later, if the grain of the wood is placed lengthwise, as at the dotted line *a* in the accompanying drawings; hence, in practice, it has heretofore been found best to have the grain run crosswise, as at *b*. By the use of the metallic frames thinner plank lengthwise of the section, with the bars of the frames secured to their under sides by stout short screws, obviates all annoyance should the splitting occur. With the grain crosswise, in use the face becomes uneven and ribbed, as it does not with the grain lengthwise the section.

The drawings show an eight-man sizing-plank with four of the wood sections removed from the frames; C, the wood; D, the frames, E being an end view of the wood section and metallic frame, showing the ends of the flanges on the frame.

What I claim is—

The within-described hatters' sizing-plank, consisting of the metallic skeleton-frames D, united in sections, as shown, and provided with a wood surface attached to and arranged in sections, substantially as shown, and for the purpose set forth.

MOSES F. JOHNSON.

Witnesses:

W. M. GOODING,
EDWARD COLLVER.