

No. 629,085.

Patented July 18, 1899.

P. MÄDLER.  
PLATE OR SLAB MATERIAL.

(Application filed Feb. 2, 1895.)

(Specimens.)

Fig. 1.

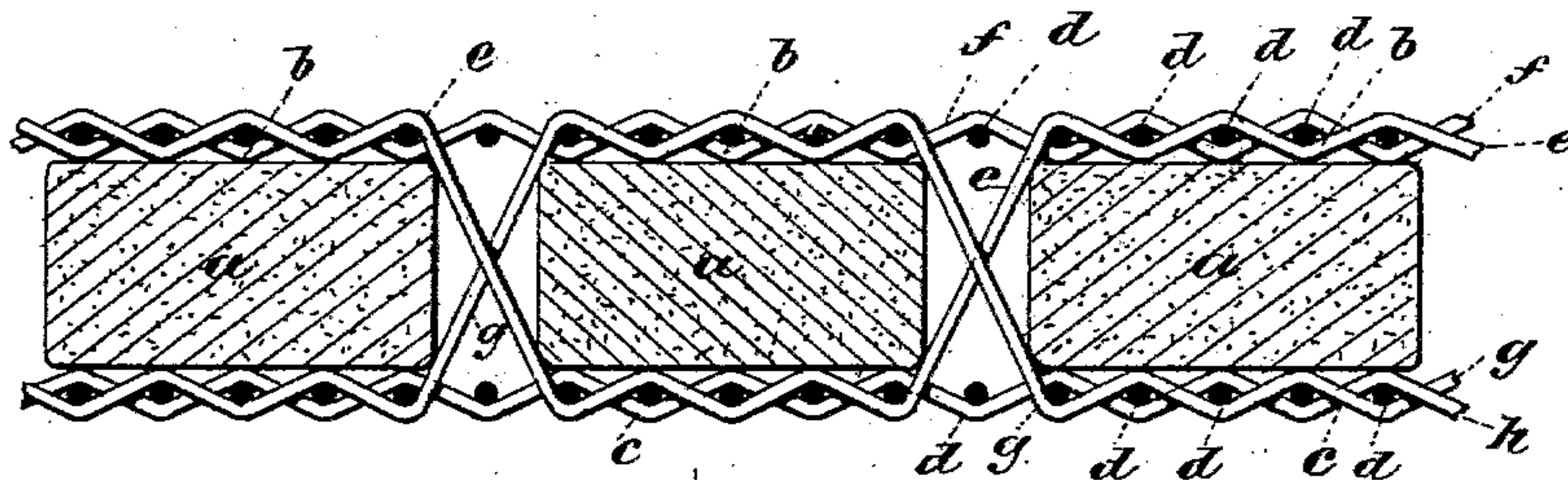


Fig. 2.

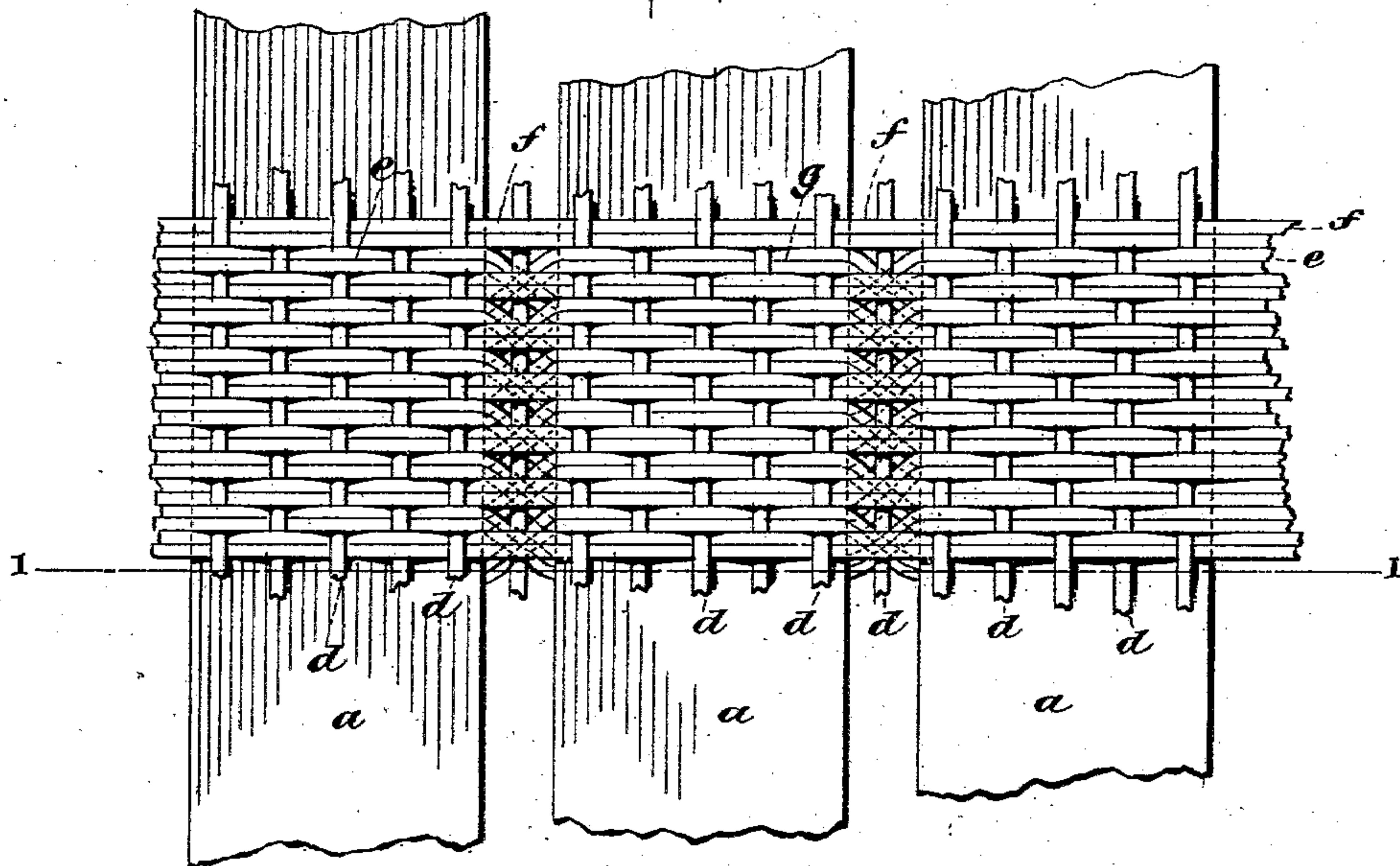
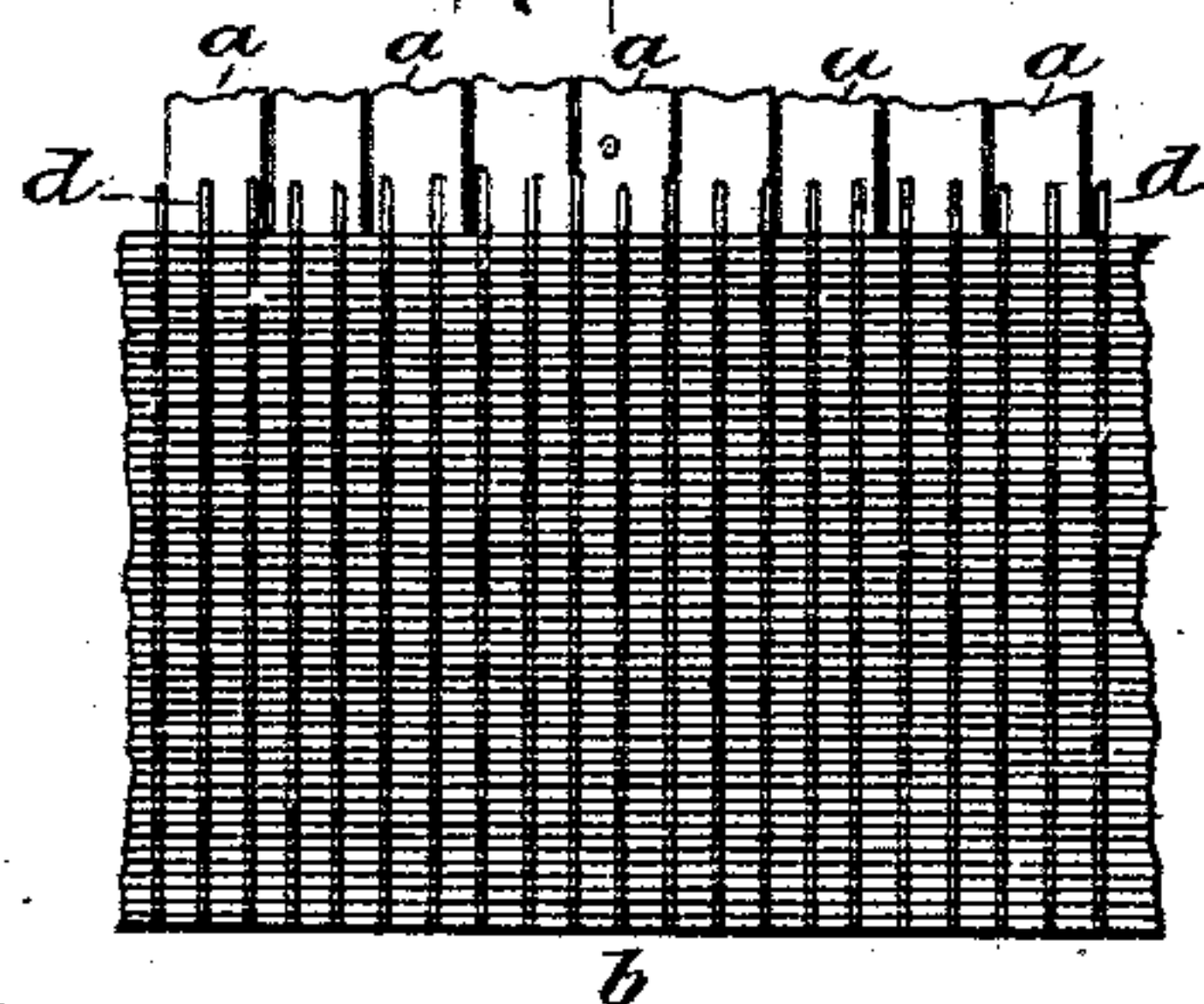


Fig. 3.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

PAUL MÄDLER, OF LEIPSIK, GERMANY.

## PLATE OR SLAB MATERIAL.

SPECIFICATION forming part of Letters Patent No. 629,085, dated July 18, 1899.

Application filed February 2, 1895. Serial No. 537,105. (Specimens.)

*To all whom it may concern:*

Be it known that I, PAUL MÄDLER, of Leipzig, in the Kingdom of Saxony, Germany, have invented a new and useful Plate or Slab Material, of which the following is a specification.

My invention relates to plates or board-like material which is in the nature of compound lumber.

The article forming the subject-matter of this application is preferably adapted to be steamed and bent in order that it may be formed into various shapes, and it is distinguished by the extraordinary strength and resisting power against pressure and blows, while it is to a certain degree yielding and resilient and comparatively light in weight.

In the accompanying drawings I have shown the board embodying my invention.

In the drawings, Figure 1 is a transverse longitudinal section of a board embodying my invention. Fig. 2 is a plan view thereof, shown fragmentarily; and Fig. 3 is a plan view, also shown fragmentarily.

It will be understood that Figs. 1 and 2 are on an abnormally-large scale and greatly exaggerated in order to clearly show the course of the threads, while Fig. 3 represents the board with the parts about the size which they will be made.

Referring now particularly to Fig. 1, *a* are rods or strips, preferably of ratan. These rods or strips are woven into the fabric at intervals in the following manner: The loom produces two fabrics *b c*, between which the strips or rods *a* are laid after the manner of weft-threads, they being parallel with the weft-threads *d* of the two fabrics. When the fabric on each side of a strip *a* has been woven, the loom is caused by suitable mechanism to cross the warp-threads *e g*, so that the warp-thread *e*, which has been interwoven with the weft-threads *d*, and the warp-thread *f* on one side of the structure or strip will now be in-

terwoven with the weft-threads *d* and the warp-threads *h* on the other side of the structure or strip *a* and the warp-threads *g* will be woven with the warp-threads *f* and the weft-threads *d*. The weaving continues as before, the strip being inserted and the loom making the two separate fabrics *b c* until the edge of the rod or strip has been reached, whereupon the loom will again cause a crossing of the warp-threads, the warp-thread *e* returning to the fabric *b* and being interwoven with the weft-threads *d* and the warp-threads *f*, as before, and the warp-thread *g* crossing over and being woven into the fabric on the other face of the structure with the weft-threads *d* and the warp-threads *h*. It will thus be seen that the structure consists of two separate textile fabrics connected at intervals by warp-threads, which cross over and divide the space between the fabrics into tubes, in which tubes the rods or strips *a* are located, the said rods or strips being woven into the structure, so as to be firmly held therein.

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

As a new and useful article of manufacture, a board or plate-like material comprising a series of rods or strips *a* inclosed between two layers of woven fabric and separated from each other by warp-threads of the said two fabrics, which warp-threads cross over at intervals from one fabric to the other in order to form with the said fabrics on the two faces of the structure tubes in which the rods or strips are inclosed, substantially as described.

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

PAUL MÄDLER.

Witnesses:

MAX MATTHÄI,  
RUDOLPH FRICKE.