

F. D. NEWTON.
 Manufacture of Chair Seat and Back.

No. 228,377.

Patented June 1, 1880.

Fig. 1

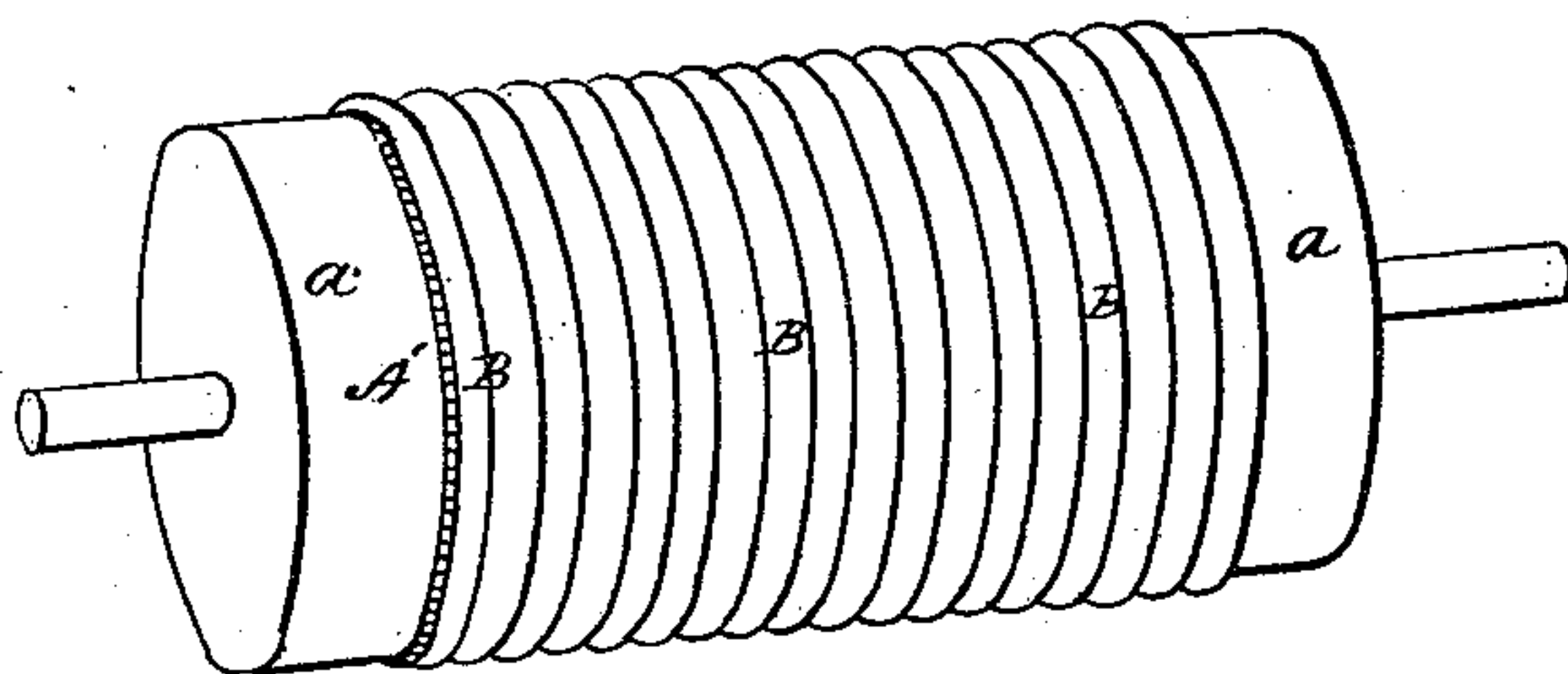


Fig. 2

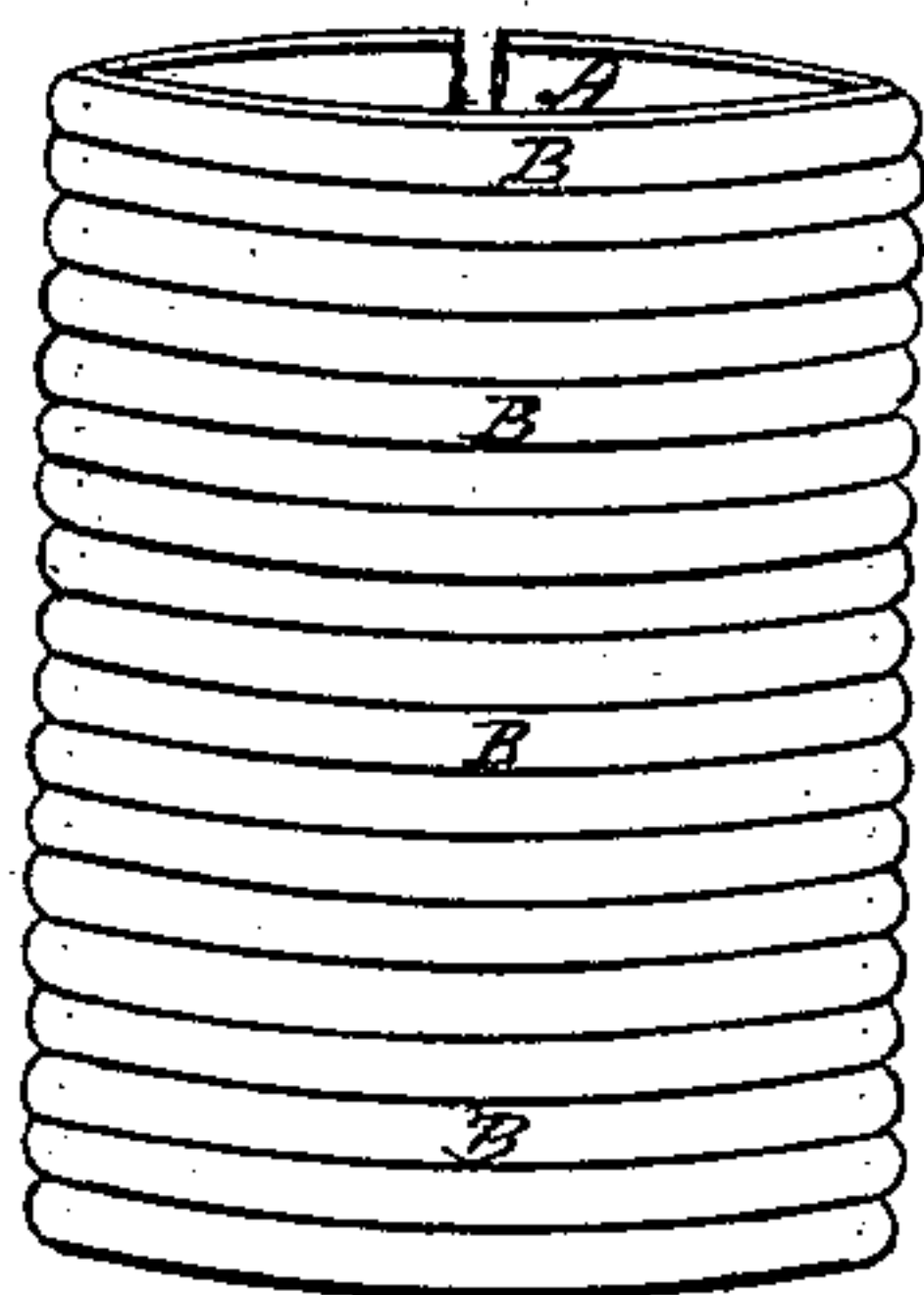


Fig. 3

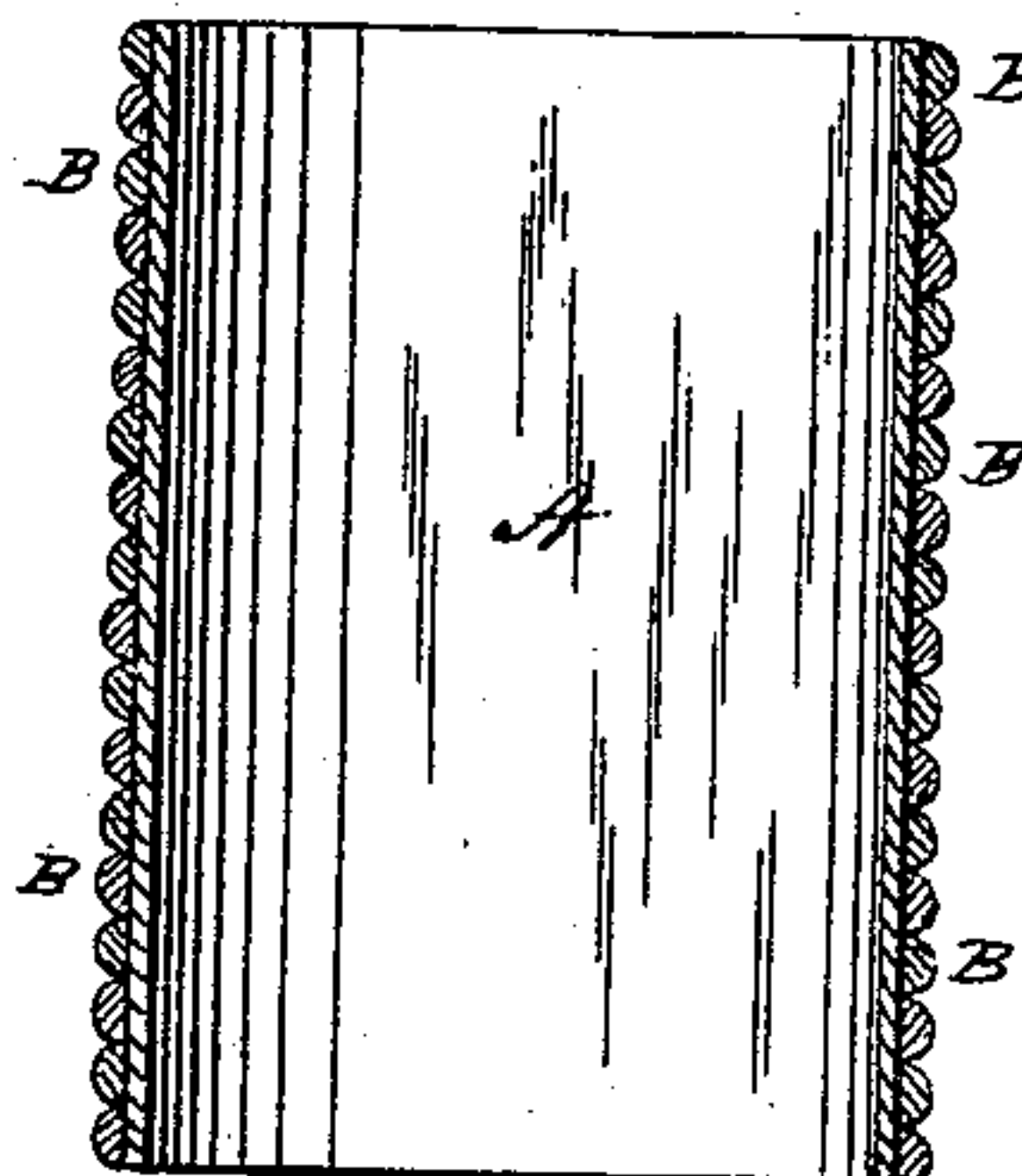


Fig. 4

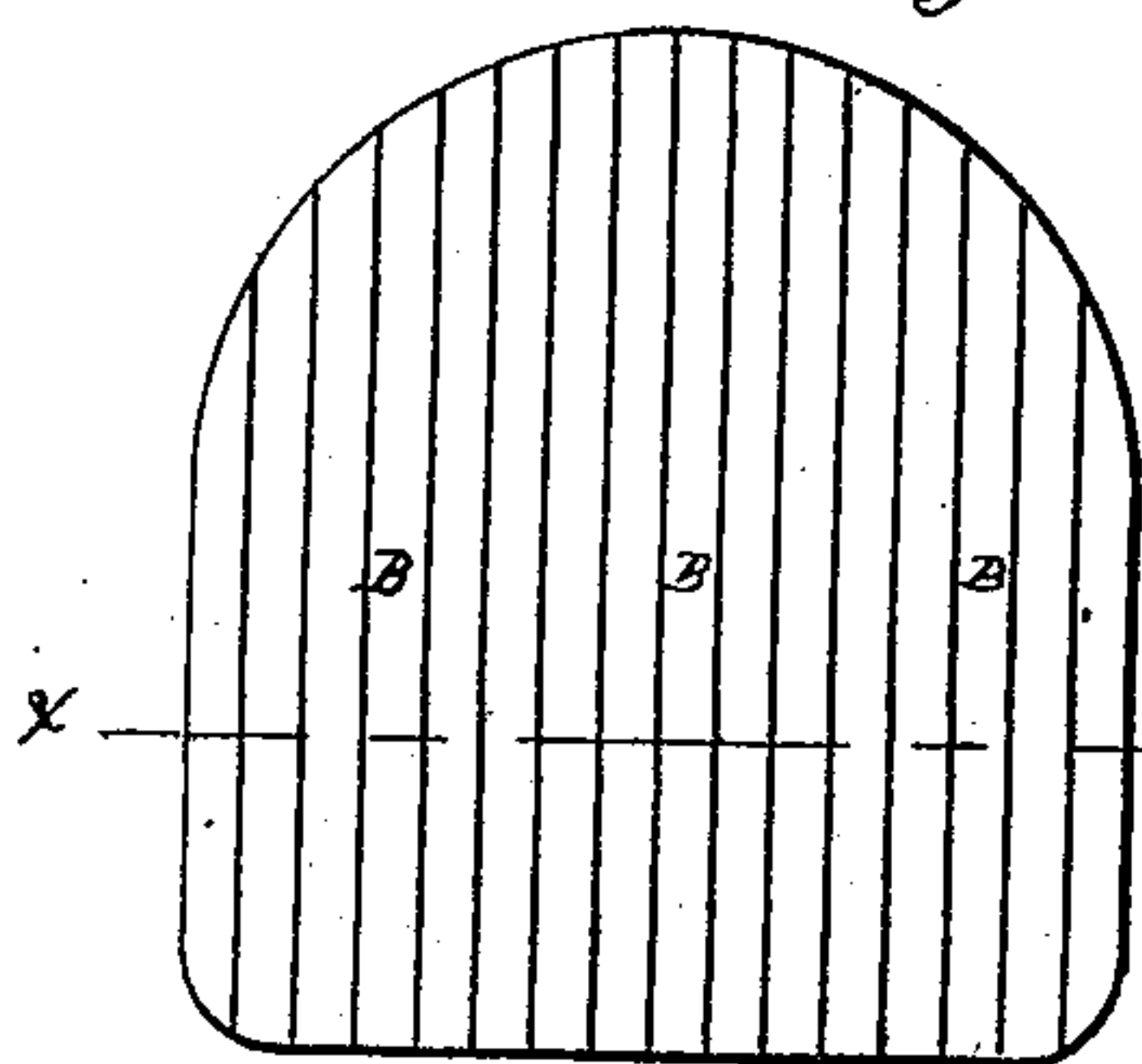


Fig. 5



Witnesses.
 Francis Mc Ardle.
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UNITED STATES PATENT OFFICE.

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MANUFACTURE OF CHAIR SEATS AND BACKS.

SPECIFICATION forming part of Letters Patent No. 228,377, dated June 1, 1880.

Application filed February 2, 1880.

To all whom it may concern:

Be it known that I, FRANKLIN D. NEWTON, of the city, county, and State of New York, have invented a new and Improved Method of Making Chair-Seats, &c.; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making part of this specification.

This invention is in the nature of an improvement in the manufacture of chair-seats, chair-backs, and similar articles of manufacture; and the invention consists in the process hereinafter described of constructing a chair-seat, chair-back, &c.

In the accompanying sheet of drawings, Figure 1 represents a perspective view of a roller with the material for the chair-seats, &c., wound thereon in the process of manufacture; Fig. 2, a perspective view of a cylinder of the material after it is taken from the drum; Fig. 3, a longitudinal section of the cylinder; Fig. 4, plan or top view of chair-seat made by my process; and Fig. 5, cross-section in line $x x$, Fig. 4.

Similar letters of reference indicate like parts in the several figures.

The purpose of this invention is, more particularly, the construction of a chair seat and back or tops of tables, sides of carriages, and similar articles by forming a material which can be manufactured and sold as an article of commerce independently of the chairs or other articles to which it is intended to attach it.

To that end a sheet of veneer of wood, A, of any suitable size and quality, is moistened and fastened around a revolving drum, a . The surface of this veneer, while secured to the drum, is covered with glue or any suitable cement, water-proof or otherwise, and a strand, B, of the inner wood of rattan—that is, a strand from the wood of rattan from which the outer surface has been stripped—is split lengthwise, and one end of the strand is secured to the drum, so that, as it revolves, the strand is wound with its split or flat side down upon the glued surface of the veneer, each coil of the strand around the drum being in close contact with the other, and when the surface of the veneer is in this way covered with the rattan it is taken from the drum and the glue

allowed to dry, fixing the rattan firmly to the surface of the veneer. The veneer is then split in the direction of its length, the rattan being cut for that purpose, when two semi-cylindrical pieces of veneer, with their surface covered with parallel and contiguous pieces of rattan, will be had, and these may be fashioned to suit the bottom or back of a chair or top of a table or sides of a carriage, and for many other purposes to which such material would be applicable.

The rattan strands, as is obvious, may be applied to the surface of the veneer by other processes, which will suggest themselves to the manufacturer; but I prefer the one described as giving the best results and being the most economical. In every instance, however, the rattan should be at right angles to the course of the grain in the veneer, thereby affording strength.

The rattan strips may be glued in short sections on a flat surface of veneer; but the better way is to splice the ends of several rattan strands together, making one long continuous strip, so that it may be coiled about the veneer, as before described.

When the seats and backs are in this way formed, they can be attached to the chair or other article by simply nailing them in place, or the edge of the seat may be bound in any suitable manner, if desired.

The chair seats and backs, &c., constructed as above are particularly strong, light, and cheap.

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

The process hereinbefore described of constructing a material for chair seats and backs, &c., consisting of mounting a cylinder of veneer upon a drum which is caused to revolve, and by wrapping and cementing to the veneer cylinder a continuous strand of rattan at right angles to the grain of the veneer, then removing the cylinder from the drum and slitting it open, and forming it to the required size and shape, substantially as described.

FRANKLIN D. NEWTON.

Witnesses:

H. L. WATTENBERG,
G. M. PLYMPTON.