

No. 797,765.

PATENTED AUG. 22, 1905.

J. A. WILKINSON.

BENDING WOOD.

APPLICATION FILED JUNE 13, 1905.

Fig. 1.

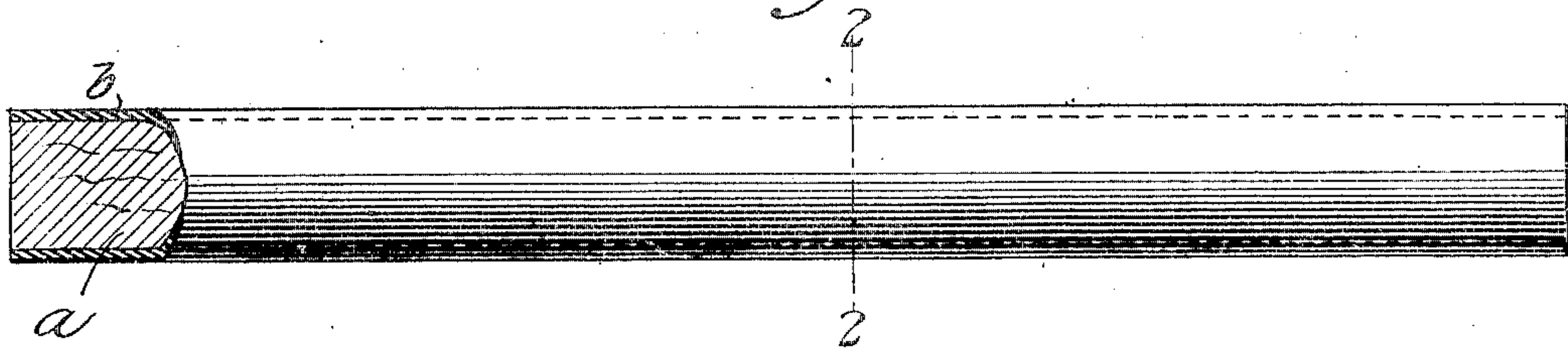


Fig. 2.

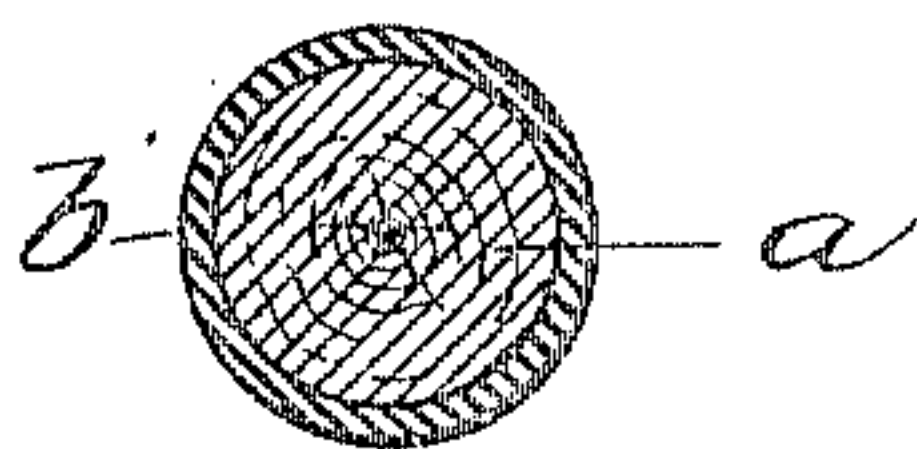
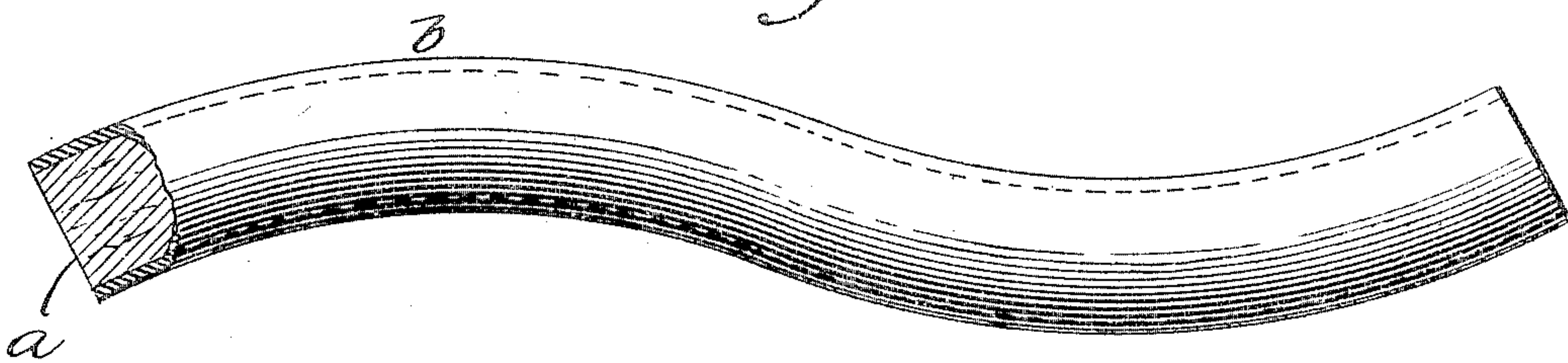


Fig. 3.



Witnesses:

N. W. Edlin.
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Inventor:

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Att'y

UNITED STATES PATENT OFFICE.

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BENDING WOOD.

No. 797,765.

Specification of Letters Patent.

Patented Aug. 22, 1905.

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To all whom it may concern:

Be it known that I, JOHN A. WILKINSON, a citizen of the Dominion of Canada, residing at and whose post-office address is 242 West One Hundred and Ninth street, in the city, county, and State of New York, have invented certain new and useful Improvements in Bending Wood; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to certain new and useful improvements in bending wood; and it has for its object to obviate the costly processes now in vogue for that purpose while at the same time permitting the utilization for constructive purposes of various kinds of the bent product and the element employed for bending it.

In the accompanying drawings, Figure 1 represents, partly in section, a cylindrical piece of wood to be bent incased in a metallic bending-shell designed ultimately to become intimately associated therewith for various uses in the arts. Fig. 2 represents a section on the line 2 2 of Fig. 1. Fig. 3 represents, partly in section, a typical bent product in its casing.

Referring to the drawings, *a* indicates a cylindrical piece of hickory, ash, oak, or other wood of close texture which it is desired to bend cold. To this end I drive over the

wood cylinder *a* a piece *b* of stout metal tubing, preferably of steel and of such inherent wall strength as to maintain its integrity when bent into the desired form despite the resistance of the wood to such bending. In practice I have found that when the cylinder of wood to be bent is oak, beech, ash, or hickory of, say, one inch diameter and of a length of, say, three feet a double bend of the kind illustrated in Fig. 3 is entirely practicable, using steel tubing of, say, No. 22 gage. It will of course be understood that this is but one illustration of the capacities of the invention, whose characteristic feature is that the wood may thus be bent cold by means of a metal envelop which, while so strong as to compel the bending of the wood itself, retains its fullness of outline during and after bending, so that the wood and envelop may jointly serve as elements of construction.

Having thus described my invention, what I claim is—

The method of bending wood which consists in providing it with a closely-fitting metal envelop, and then bending the said envelop, thereby causing the wood to assume a corresponding form.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN A. WILKINSON.

Witnesses:

JOHN C. PENNIE,

W. BEALLE WILLIAMS.