(No Model.)

B. RICE.

TOY DRUM.

No. 286,069.

Patented Oct. 2, 1883.

Fig.1

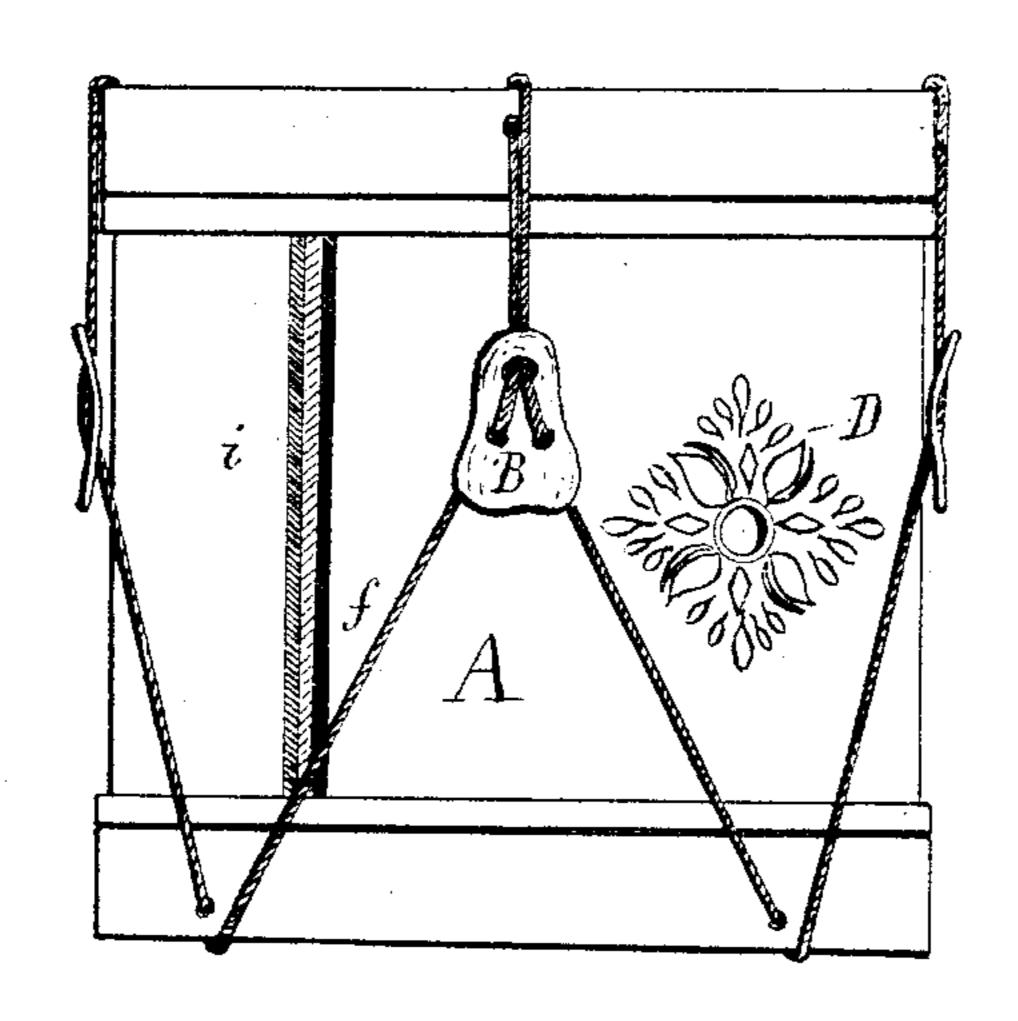
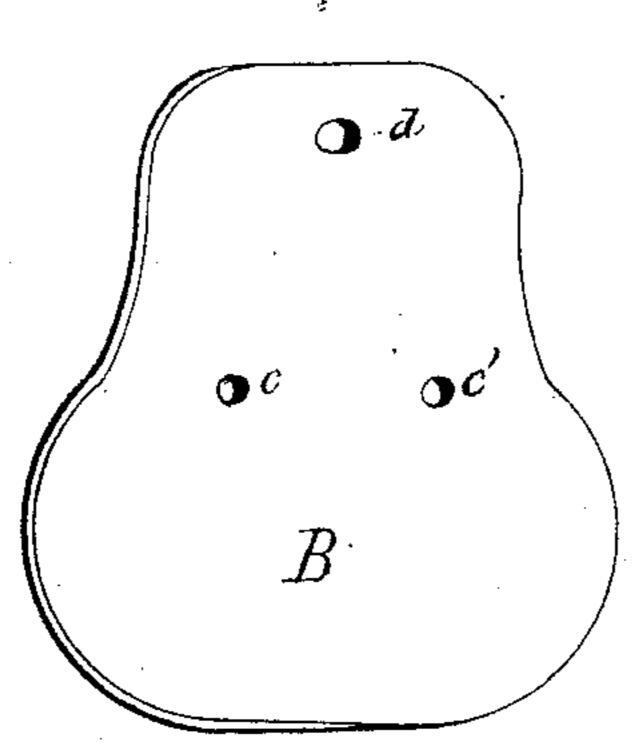


Fig. 2.



WITNESSES:

Sas S. Ewbank. 6.16, Crawford BY Frameis C. Bowen

ATTORNEY

United States Patent Office.

BERNARD RICE, OF BROOKLYN, NEW YORK.

TOY DRUM.

SPECIFICATION forming part of Letters Patent No. 286,069, dated October 2, 1883.

Application filed September 5, 1883. (No model.)

To all whom it may concern:

Be it known that I, Bernard Rice, a citizen of the United States of America, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Toy Drums, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention is particularly adapted to the

manufacture of toy drums.

The invention relates to the manner of constructing the shell or body of the drum and also the straps for tightening the cords.

In carrying out my invention the shell or body of the drum is made from a strip of veneer-wood, preferably cut off the sheet from a revolving log bent in a direction parallel with the grain of the wood and at right angle to the direction in which the veneer is cut from the log.

Heretofore the shell or body of the drum has been made of wood which has been sawed or cut lengthwise of the log and then planed and 25 bent into shape by steaming the wood and joining the ends together over a form with nails, afterward sandpapering the shell to produce a smooth surface. Among the objections to such a mode of construction may be mensioned that sawed wood is more expensive than veneer-wood, besides the additional cost and labor of planing and sandpapering. Moreover, sawed and planed wood, to retain strength, cannot be reduced to the thinness of veneer-wood, 35 so essential in the construction of small drums.

The steaming process to bend the sawed wood into shape, aside from its additional cost, expands the wood and opens the pores and fibers, impairing the sounding qualities. The shell or body of the drum, with the exception of a small hole, should be comparatively air-tight, which cannot be attained when the ends are fastened together with nails.

In the accompanying drawings, Figure 1 is a view of a drum constructed according to my invention. Fig. 2 is a detail view of my improved tightening-strap, (brace.)

Similar letters designate similar parts.

A designates the shell or body of the drum, which is made from thin veneer-wood cut from the log in a direction parallel with its axis.

To form the shell of the drum, the strip of

veneer-wood is bent by means of a deflector in the direction of the grain of the wood and at right angle to the direction in which it is 55 cut from the log, thus giving it, though thin, great strength and elasticity. If it is desired to give the veneer-wood still more compactness, strength, and elasticity for bending, the wood may be subjected to the action of heated 60 calender-rolls such as are described in Letters Patent granted to A. B. Rice, May 6,1879, No. 215,162. After bending the veneerwood into the desired shape, the ends are joined together by glue. The heads and hoops 65 of the drum are then attached in the usual manner. The advantage of such construction is the cheapness of veneer-wood in comparison to sawed and planed wood, reducing the cost of production, while at the same time produc- 70 ing a lighter, thinner shell, so essential to produce resonance in a small drum, lessening the cost of production, and giving the drum a nicer appearance. Being bent dry, the fiber and pores are not opened, but, on the contrary, are closed 75 and compact, and the ends being glued together makes the shell comparatively airtight when mounted, all of which contribute to obtain a better sound.

In order to give the drum a better and uni- 80 form appearance, the hoops are also glued together by glue or any other adhesive substance, instead of being nailed, as done heretofore.

The improved tightening-strap is made of a single piece of flat leather, B, having three 85 holes, e c', and forming three points of a triangle. In placing the strap in position both strands of the cord f are passed through the upper hole, d, and then one strand is passed through one of the lower holes, c, and the other 90 strand through the other hole, c'. By this means a brace is formed which enables me to tighten the cords tighter, and not as liable to slip. Such a strap can be produced cheaper than the sewed and tin-fastened straps used 95 heretofore.

The lines *i* and figures D, for ornamentation of toy drums, have heretofore been painted by hand, making it very expensive, and, unless skillful labor is employed, uneven and inaccurate. To meet this objection I make the lines and figures by means of stencil-plates, which reduces the cost considerably, producing at the same time great accuracy and evenness.

What I claim, and desire to secure by Letters Patent, is—

1. A toy drum having its shell or body made of veneer-wood bent at right angles to the direction in which it is cut from the log, substantially as herein described.

2. In a toy drum, a shell or body made of a strip of veneer-wood having its ends joined together with glue or any other adhesive subtostance, substantially as herein described.

3. In a toy drum having the lines and figures for ornamentation of the body of the drum made by means of stencil, substantially as herein described.

4. In a toy drum having the tightening-strap

B made of a single piece of flat material, provided with three holes, c c' d, arranged in combination with cord f, substantially as herein described.

5. In a toy drum, the combination of the 20 shell A, having its ends adhesively joined together and ornamented by means of stencils, the brace or straps B, having holes $c \ c' \ d$, and cord f, substantially as herein described.

In testimony whereof I affix my signature in 25

presence of two witnesses. ·

BERNARD RICE.

Witnesses:

FRANCIS CLARE BOWEN, E. T. JOHNSON.