J. TOMLINSON.

BARRELS.

No. 182,494. Patented Sept. 19, 1876.

Fig. 1.

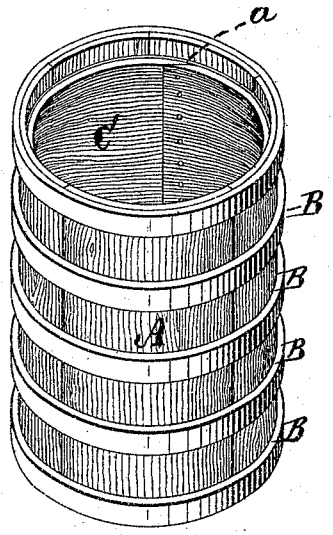

Fig. 2.

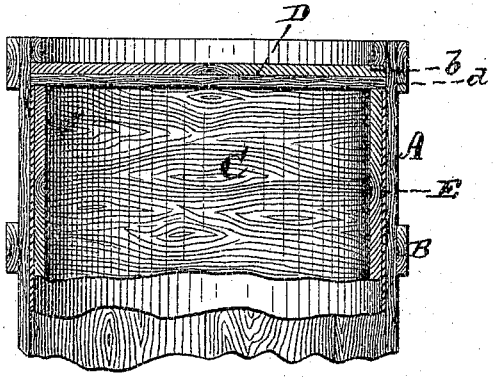

Fig. 3.

WITNESSES

Henry N. Miller

C. L. Ewert.

INVENTOR

James Tomlinson.

By Alexander Thomson

Attorneys

UNITED STATES PATENT OFFICE.

JAMES TOMLINSON, OF GODERICH, ONTARIO, CANADA.

IMPROVEMENT IN BARRELS.

Specification forming part of Letters Patent No. **182,494**, dated September 19, 1876; application filed November 3, 1874.

To all whom it may concern:

Be it known that I, JAMES TOMLINSON, of Goderich, in the Province of Ontario, Dominion of Canada, have invented certain new and useful Improvements in Barrels; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

My invention consists in the construction of wooden barrels, as hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, which forms a part of this specification, and in which—

Figure 1 represents a perspective view of a barrel for containing flour, sugar, grain, and like materials. Fig. 2 represents a sectional view of a barrel for containing rosin, oils, and liquids of any kind. Fig. 3 is a section of the head of the liquid-barrel.

My barrel is composed of one or a series of veneers of wood, cut around the log, with the grain thereof running lengthwise of the veneer, and banded by hoops B B, as shown in Fig. 1. On the inside of the veneer or veneers A is placed a cylinder, C, made of a single sheet of thin wood or veneer, formed, preferably, by cutting a sliver around a log, in the manner heretofore known. This cylinder is of a length equal to the length of the veneer or veneers A, minus the space at top and bottom for placing in the heads. The grain thereof runs at right angles to that of the grain of the veneers A. The top and bottom edges of this cylinder form a bearing for the heads D, and has both its inner edges feathered and nailed together, as seen at *a* in Fig. 1.

The main object I have in view is to form a light and strong wooden barrel, and one that will be perfectly tight, so as to avoid the egress of fine material through the cracks and spaces formed by the shrinkage of the wooden veneers. The cylinder being of a single sheet, with its edges overlapped, and the grain of the wood being at right angles to that of the veneers, the barrel has great strength, and should the veneers shrink from each other no opening occurs whereby the contents of the barrel can escape, as would be the case if the inner cylinder or lining was made of two or more sections.

For carrying rosin, oils, and liquids, I interpose a sheet-metal (zinc preferred) lining, E, between the veneers A and cylinder C, so as to form a perfect liquid-tight barrel.

The head D of the barrel is composed of two pieces of wood, *b d*, with the grains crossing each other. The head D′ of the liquid-barrel is formed in the same manner, and has a sheet of metal, *c*, placed between the pieces *b d*.

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

1. A wooden barrel, formed of one or more veneers, A, with the grain of the wood running lengthwise of the same, and provided with an interior cylinder, C, of a single sheet of thin wood, with its grain running at right angles to that of the veneers, and having its ends feathered and overlapping, as set forth.

2. The sheet-metal lining E, in combination with the veneer or veneers A and cylindrical sheet C, as and for the purposes set forth.

JAMES TOMLINSON.

Witnesses:
A. H. GRAYDON,
THOS. EVANS.