(No Model.)

JOSIAH W. & JOHN W. SHERWOOD.

DIPPING TANK FOR PAINTING CARRIAGE BOW SLATS.

No. 354,441. Patented Dec. 14, 1886.

Fig. 1.

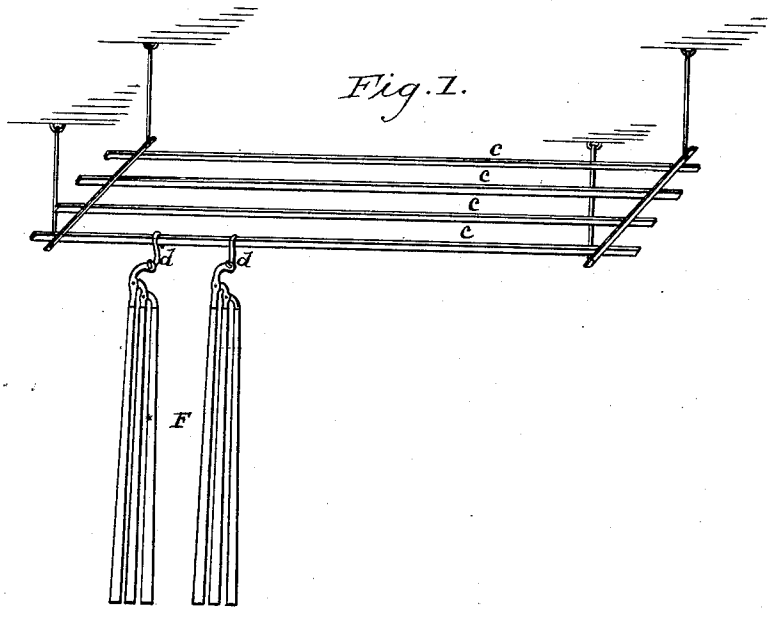
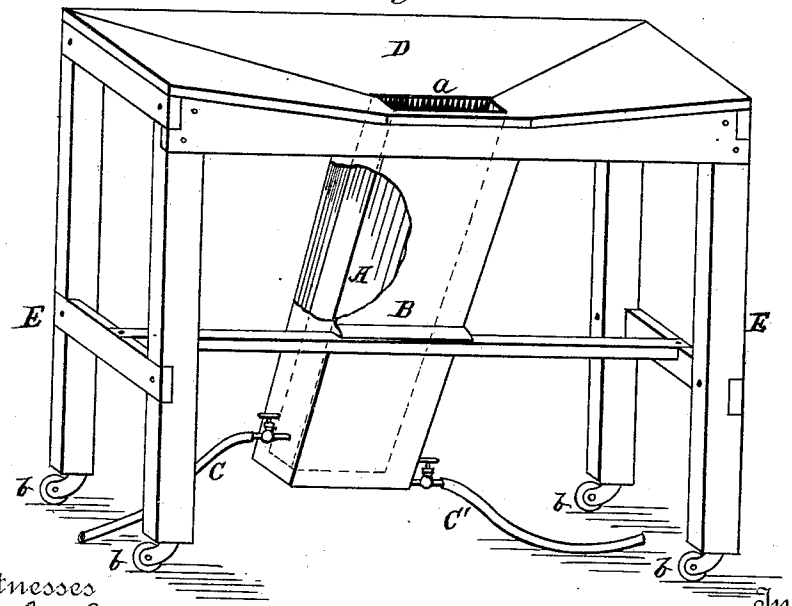


Fig. 2.



Witnesses
A. H. Sherwood
Theo. M. Carpenter.

Inventor
Josiah W. Sherwood
John W. Sherwood
By their Attorney
Luther V. Moulton

N. PETERS. Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

JOSIAH W. SHERWOOD AND JOHN W. SHERWOOD, OF GRAND RAPIDS, MICHIGAN.

DIPPING-TANK FOR PAINTING CARRIAGE-BOW SLATS.

SPECIFICATION forming part of Letters Patent No. 354,441, dated December 14, 1886.

Application filed January 8, 1886. Serial No. 188,039. (No model.)

To all whom it may concern:

Be it known that we, JOSIAH W. SHERWOOD and JOHN W. SHERWOOD, citizens of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented a new and useful Dipping-Tank for Carriage-Bow Slats, of which the following is a specification.

Our invention relates to devices for dipping carriage-bow slats in hot varnish for the purpose of coating them with the same.

The object of our invention is to provide means whereby the said slats may be dipped in hot varnish and suspended at once in the drying-room in position for drying; also, to provide means whereby the drip from said slats will be returned to the tank when they are so suspended; also, to provide means whereby the dipping operation may be continuous until the drying-room is filled with said slats to its full capacity for drying the same. We attain these results by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 represents the hanging device, and Fig. 2 the dipping device, more particularly described as follows:

A is a tank, which is inclosed with a jacket, B, between which and the tank is admitted steam from any convenient supply. Said steam is conveyed to the device by means of a flexible tube, C, and the water which condenses therefrom is conveyed away by a similar tube, C'. These tubes are of sufficient length to enable us to move the device to any part of the room without disconnecting it from the steam-supply. Directly above the tank A is placed a table, D, the surface of which inclines toward said tank from every direction, and connects with its interior by means of an opening, *a*. This table receives the varnish which drips from the suspended slats and returns it to the tank A. For convenience the said opening is placed near the front edge of the table and the tank inclined toward the rear at the bottom. Said device is mounted upon a suitable frame, E, having casters *b*. Suspended overhead by any suitable means are bars *c*, to which are suspended the carriage-bow slats by means of hooks *d*. By this arrangement these bars may be in the drying-room, and sufficient in number and length for the capacity of the room, and the slats may be dipped and hung directly upon them to drip, and then dried without moving, for the reason that when the bars over the table are full the tank can be moved and other bars filled, and so on continuously until all in the room are full.

We are aware a stationary tank heated by steam has been used for the purpose specified; also that slats have been suspended from bars in the manner described, for the purpose specified. We do not claim these, broadly.

Our invention consists principally in arranging the tank so that it can be moved to all parts of the room and heated by steam at the same time, thereby enabling us to place the slats at once where they are to remain till dry, and also to fill the said room to its entire capacity at one operation.

We are aware that stationary steam-heated tanks, and also movable tanks having attached movable sources of heat, are not new. We do not claim these, broadly.

What we claim and wish to secure is as follows:

1. The tank A, having the steam-jacket B, with flexible connections C and C', also having the table D with the opening *a*, in combination with the frame E, having the casters *b*, substantially as and for the purpose specified.

2. The combination of a steam-heated tank having flexible steam connections and a drip-table, and arranged to move to any part of the room, with the bars *c*, substantially as and for the purpose specified.

3. The combination, with the tank A, provided with means for heating by steam, connected to a steam-supply by a flexible tube, said tank also arranged to move to various parts of the room at pleasure, of bars *c* and hooks *d*, substantially as and for the purpose specified.

JOSIAH W. SHERWOOD.
JOHN W. SHERWOOD.

Witnesses:
L. V. MOULTON,
A. H. SHERWOOD.