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T. H. RHOADS

TRUCK FOR DRYING POTTERY, ETC

Filed April 3, 1923

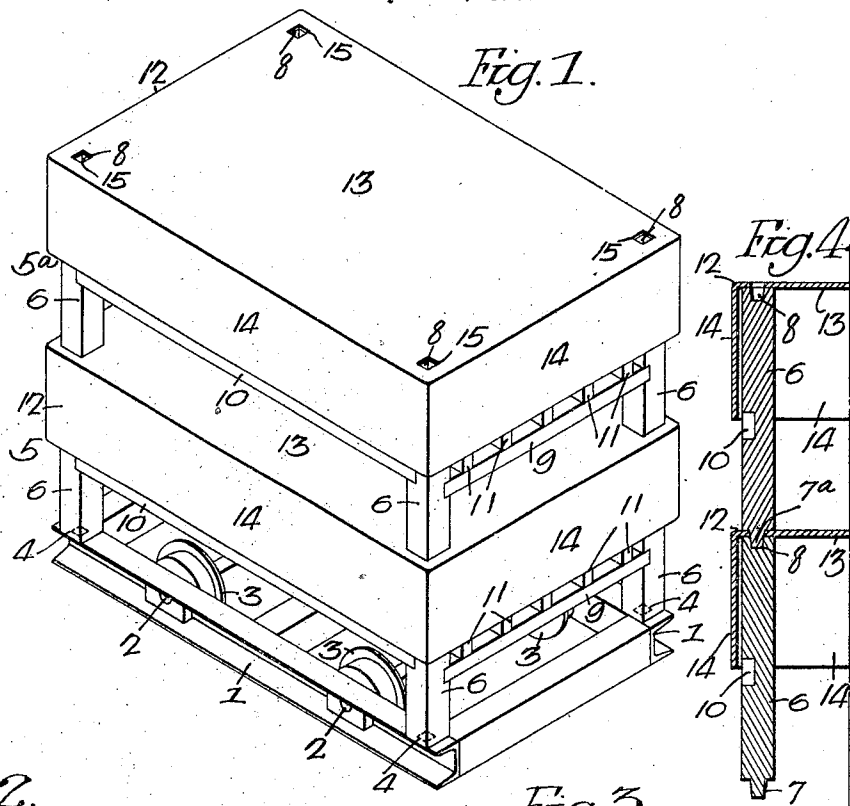


Fig. 2.

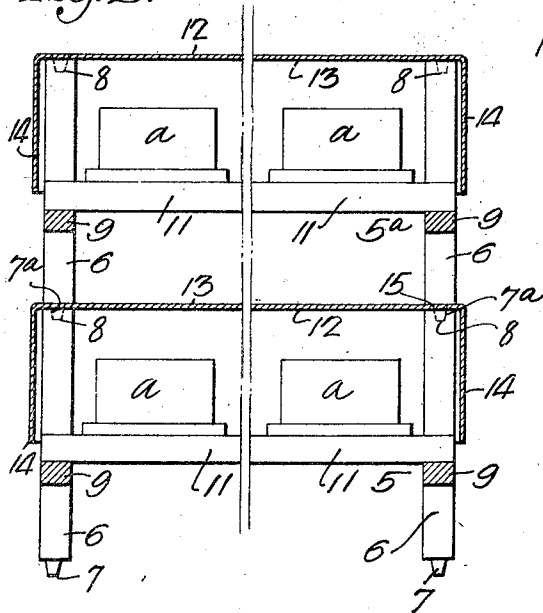
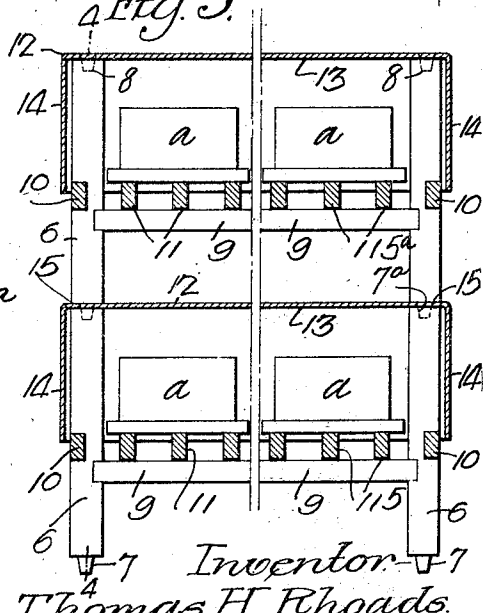


Fig. 3.



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TRUCK FOR DRYING POTTERY, ETC.

Application filed April 3, 1923. Serial No. 629,715.

To all whom it may concern:

Be it known that I, THOMAS H. RHOADS, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain Improvements in Trucks for Drying Pottery, Etc., of which the following is a specification.

The object of this invention is to provide an apparatus for drying large pieces of clay, such as tank blocks, so that the drying will be from the bottom upwards, the drying of the upper portion being delayed so as to prevent cracking and warping of the article.

In the accompanying drawings:

Fig. 1 is a perspective view, showing my improved apparatus for drying large pieces of clay mounted on a truck;

Fig. 2 is a longitudinal sectional view;

Fig. 3 is a transverse sectional view; and

Fig. 4 is a sectional view on the line 4—4, Fig. 3.

Referring to the drawings, 1 is the frame of the truck having boxes 2 for the axles on which the flanged wheels 3 are mounted. These wheels are adapted to travel on a track in a drier of any suitable type. Each corner of the frame has a rectangular opening 4. 5 designates a tray having four posts 6, in the present instance. At the bottom of each post is a tapered pin 7 adapted to the openings 4 in the frame. In the upper end of each post is a socket 8 adapted to receive the pins 7^a of an upper tray 5^a, which is placed on top of the lower tray, as clearly shown in the drawings. Connecting the posts are cross bars 9 and longitudinal bars 10. Mounted on the bars 9 is a series of slats 11, which are spaced a given distance apart, as clearly shown in Fig. 3, so as to support properly the articles *a* being dried. Mounted on each tray is a cover 12 having a body portion 13 that extends over the article being dried and deep flanges 14, which preferably extend to a point below the upper surface of the slats 11.

In the corner of each cover 12 are openings 15 for the passage of the pins 7^a of an

upper tray. By this arrangement, a series of trays can be mounted, one upon the other, the pins holding the trays in alignment and preventing the trays shifting during the movement of the truck through the drier.

By this construction, it will be seen that heated air must pass under the covers and up between the slats 11 so as to dry the clay bodies supported by the slats, the drying being from the bottom upwards. The upper portions of the clay bodies are protected by the cover, consequently, the articles are dried without checking or cracking.

While the invention is illustrated as mounted on a truck, it will be understood that the trays may be mounted on any suitable carrier, or they may be mounted in a stationary position, the heated air being free to circulate around the trays.

I claim:

1. The combination of a tray having slats thereon to support the articles to be dried; and a flanged cover extending over the articles and to a point at, or near, the upper surface of the tray, so that heated air, in circulation, will pass up between the slats and the upper portions of the articles will be protected.

2. The combination of a series of trays, one mounted above another, one of said trays having pins adapted to rest in another tray; and a cover on each tray having deep flanges, the covers being perforated for the passage of the pins.

3. The combination in apparatus for drying clay bodies, of a series of trays, each tray having posts and supporting slats on which the articles to be dried are mounted, each post having a pin at one end and a socket at the opposite end; and a cover for each tray supported by the posts, said covers having deep flanges extending to a point near the upper surface of the slats so as to cause the heated air to pass under the articles being dried.

THOMAS H. RHOADS.