

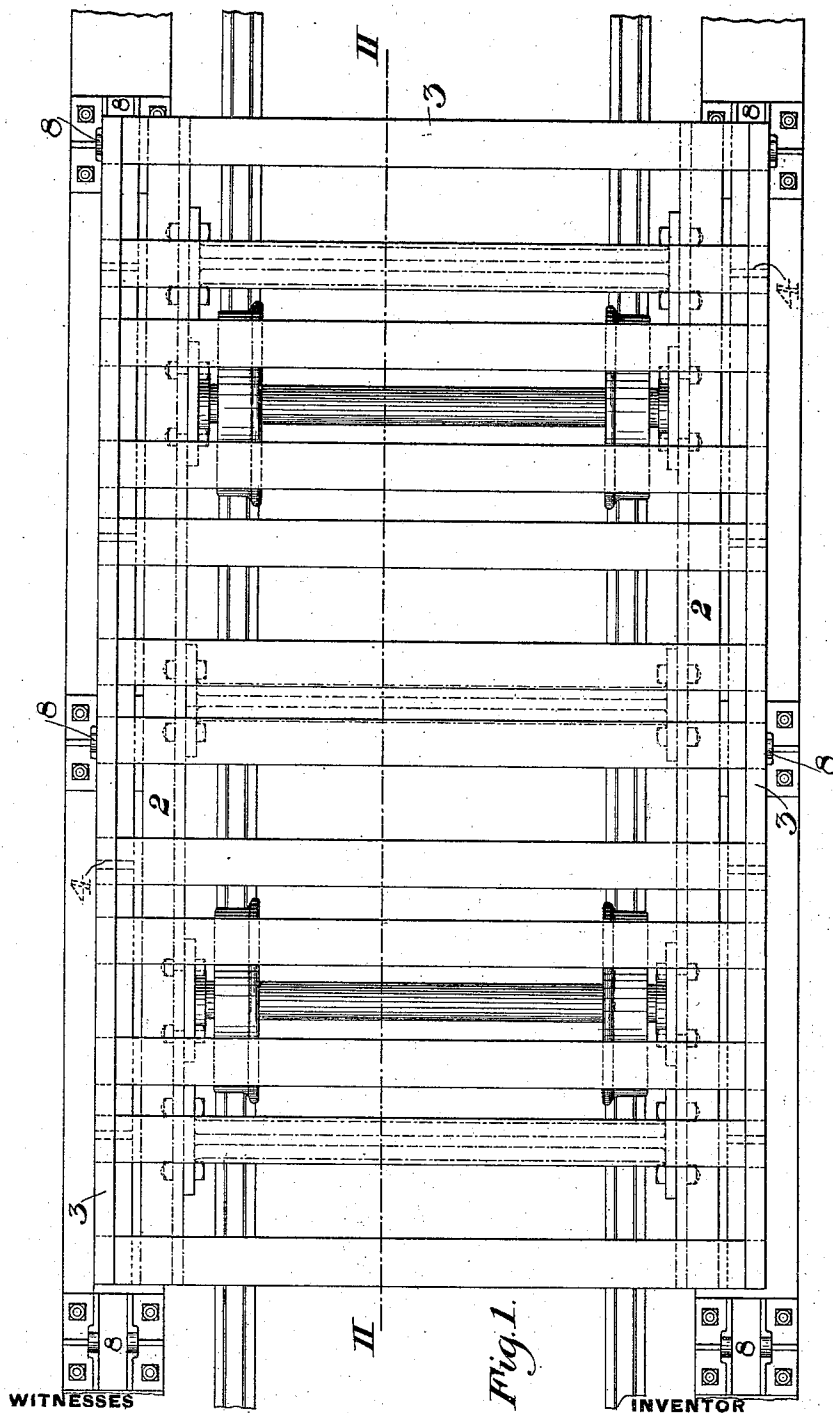
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4 Sheets—Sheet 1.

W. T. NICHOLLS.
BRICK DRIER.

No. 532,178.

Patented Jan. 8, 1895.



WITNESSES

N. B. Corum
H. M. Corum

Fig. 1.

INVENTOR

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by T. B. Baker & Sons
his attorneys

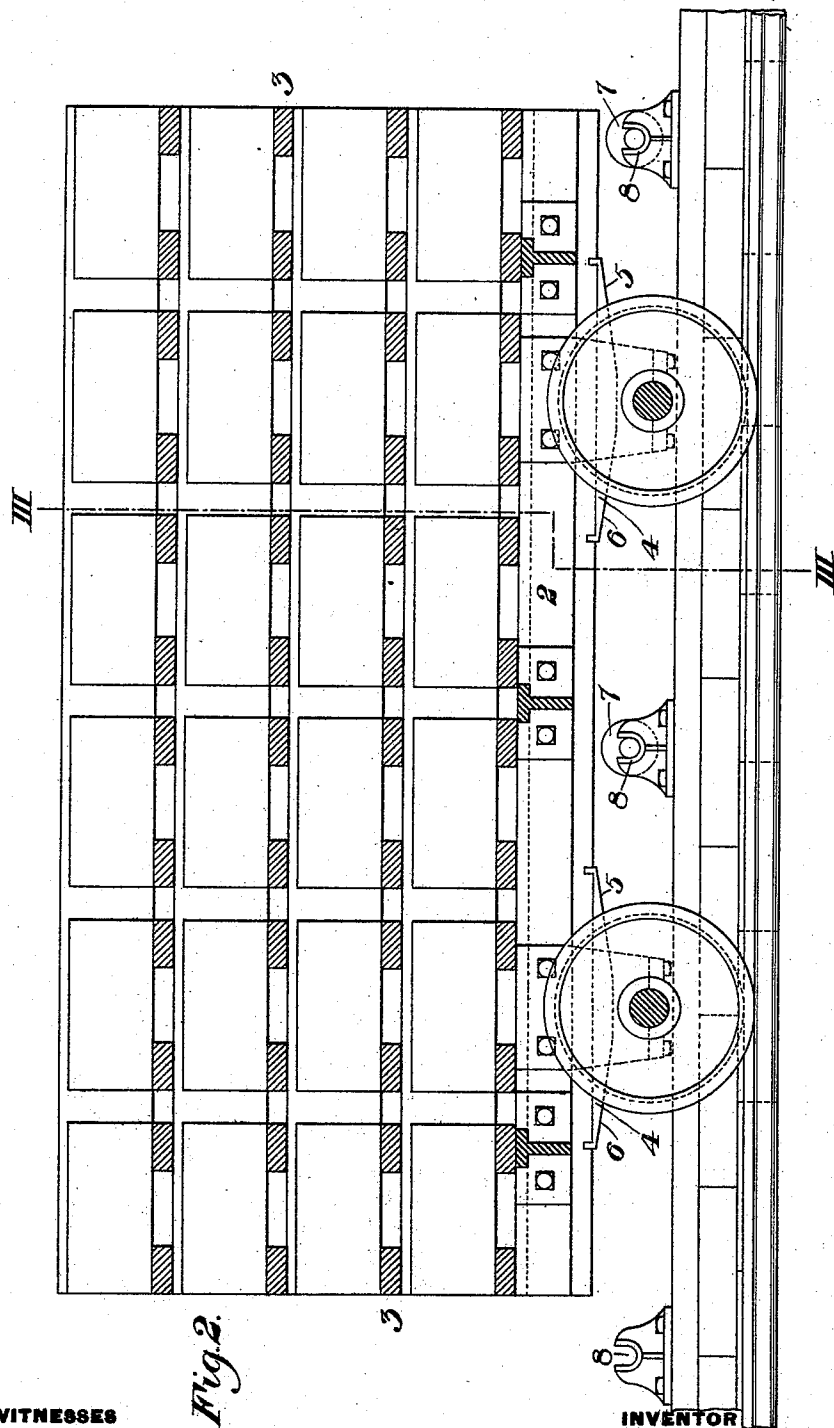
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WITNESSES

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(No Model.)

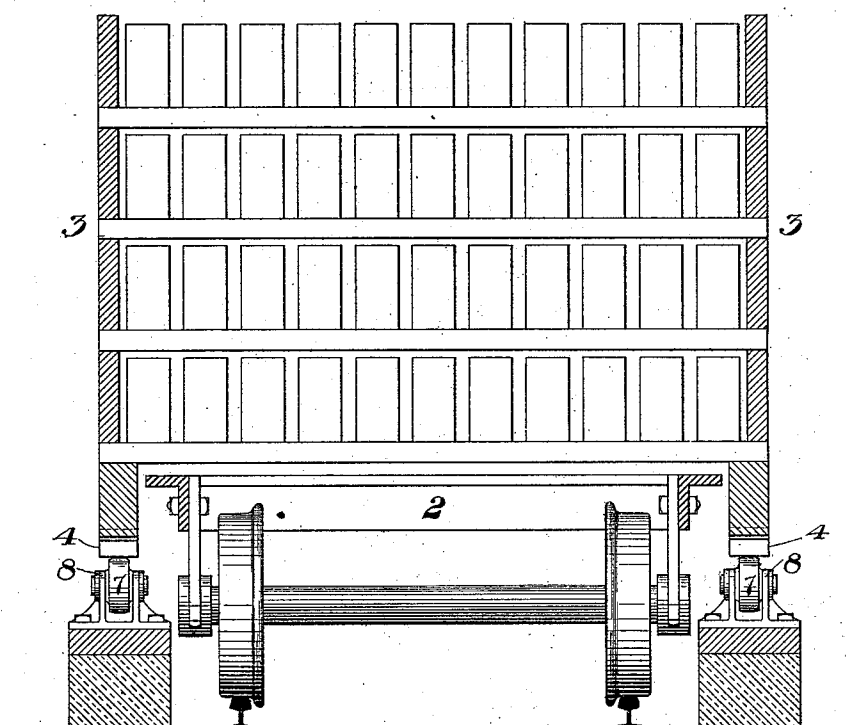
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Fig. 3.



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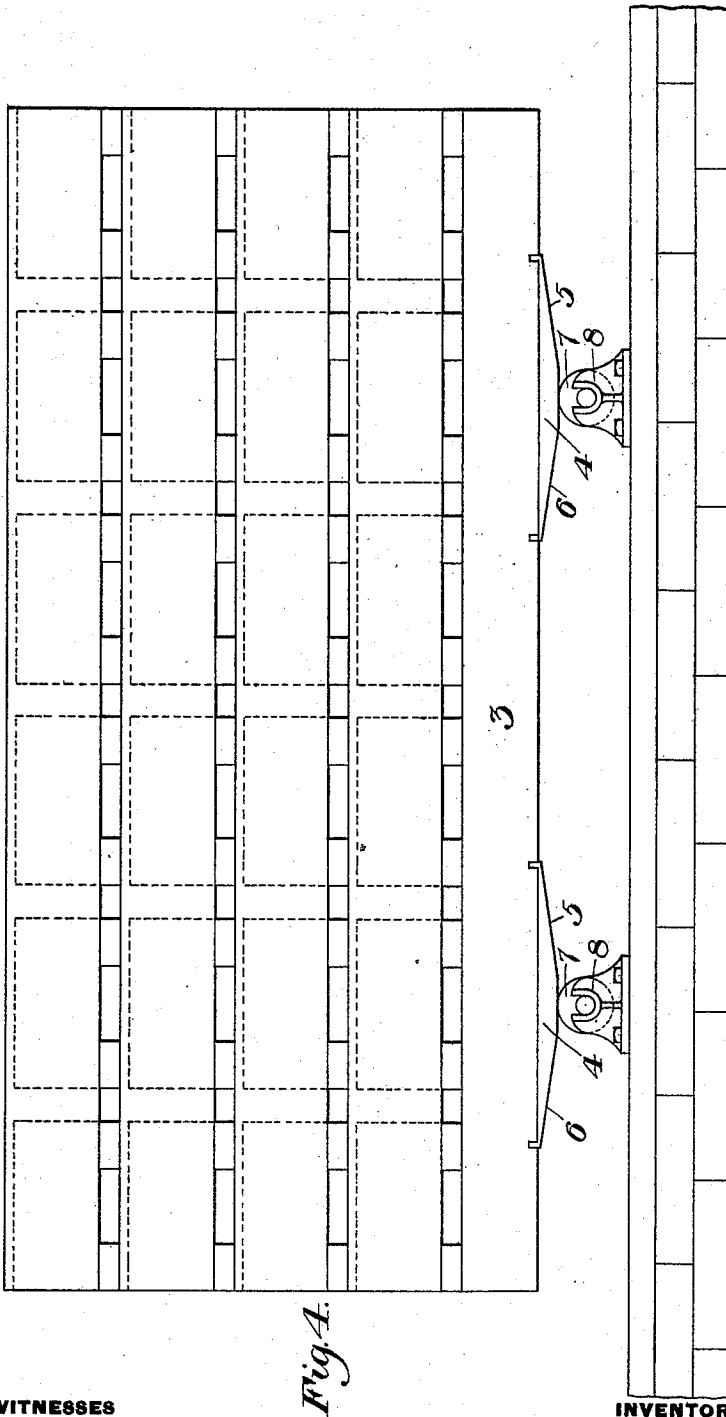
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UNITED STATES PATENT OFFICE.

WILLIAM T. NICHOLLS, OF WELLSBURG, WEST VIRGINIA.

BRICK-DRIER.

SPECIFICATION forming part of Letters Patent No. 532,178, dated January 8, 1895.

Application filed February 28, 1894. Serial No. 501,810. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM T. NICHOLLS, of Wellsburg, in the county of Brooke and State of West Virginia, have invented a new and useful Improvement in Brick-Making Apparatus, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a plan view of a car constructed in accordance with my invention. Fig. 2 is a vertical longitudinal section on the line II—II of Fig. 1, showing the pallets upon the car and ready to be introduced in the oven. Fig. 3 is a vertical cross section on the line III—III of Fig. 4. Fig. 4 is a side elevation, showing the pallets in the drying house, the truck being removed.

The object of my invention is to provide means for facilitating and quickening the operation of drying bricks and other articles such as pottery.

The invention consists in a frame or series of pallets suitable for carrying bricks to be dried, which pallets are set removably on the car-truck, in combination with devices, above the trucks, where they are supported so that the truck may be withdrawn therefrom and removed to receive a fresh load. Said devices consist of meeting surfaces in the drying-house and on the car-body or frame, one of said surfaces being inclined so that upon their engagement the car-body or frame shall be lifted. By these means I am enabled to carry on the manufacture of bricks with much fewer cars than required by the method heretofore in use of moving the cars into the drying-house and leaving them there until the bricks have been dried. I thus save in the amount of money required to be invested in a brick-making plant, and very materially improve and cheapen the manufacture.

In the drawings, 2 represents the truck of a car constructed in accordance with my invention. The body 3 consists of a frame-work preferably composed of separable superposed pallets or racks, and has at the bottom, outside the line of the wheels, shoes 4, each having oppositely inclined or beveled surfaces 5, 6. In the drying-house outside the line of each rail of the track and in the same relative position as that occupied by the shoes 4, I

provide anti-friction rollers 7, preferably journaling them removably in bearings 8.

In the operation of the apparatus, the truck, having its pallets or frame loaded with a charge of bricks to be dried, is drawn into the drying-house to the far end thereof, and when the shoes 4 come to the position of the rollers 7 their forward inclined faces engage the rollers, and moving thereover are raised thereby so as to elevate the whole frame slightly above the truck. A small vertical motion, only a fraction of an inch, will suffice for this purpose. The truck may then be drawn back, leaving the loaded frame standing on the rollers 7. Rollers are then placed in the next roller sockets 8' for the reception of a second series of pallets, which are delivered to the rollers in a like manner until the drying-house is fully charged. After the bricks have been dried, the truck can then be moved into the drying-house under one of the series of pallets, and the latter is pushed back off the rollers so that it shall rest again upon the car-truck, whereupon it can be drawn off to the kiln, and so on until all have been removed. The vertical rise caused by the rollers and shoes is so small that the slight jolt given to the pallets as they pass on the rollers causes no injury. When a frame or pallet is removed, its set of rollers is lifted from its bearings so as to be out of the way of the passage of the next frame of pallets.

The advantages of the invention will be appreciated by those skilled in the art.

Within the scope of my invention as defined in the claims, modifications of the apparatus may be made by the skilled mechanic, since

What I claim is—

1. In brick-making apparatus, the combination with a truck having a vertically removable frame or body, of meeting-surfaces in the drying-house and on the car-body or frame respectively, adapted to engage each other when the truck is moved into the drying-house, one of said surfaces being inclined so that upon their engagement the car-body or frame shall be lifted from the truck; substantially as described.

2. In brick-making apparatus, the combination with a truck having a vertically removable body or frame, of inclined shoes on

the body or frame, and supporting surfaces in the drying-house adapted to engage the shoes and to lift the body; substantially as described.

- 5 3. In brick-making apparatus, the combination with a truck having a vertically removable frame or body, of inclined shoes on the body, and rollers in the drying-house adapted to engage the shoes and to lift the
10 frame or body; substantially as described.

4. In brick-making apparatus, the combination with a truck having a vertically re-

movable body, of inclined shoes on the body, and rollers in the drying-house adapted to engage the shoes and to lift the body, said rollers being removable from their bearings; substantially as described. 15

In testimony whereof I have hereunto set my hand.

WILLIAM T. NICHOLLS.

Witnesses:

GEO. M. WHITE,

CHAS. R. WINDSOR.