

(No Model.)

P. ARNOLD.
DRIER CAR.

No. 419,306.

Patented Jan. 14, 1890

Fig 1

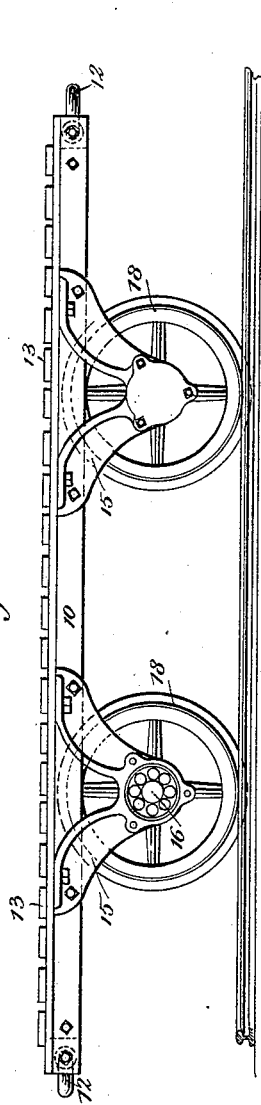
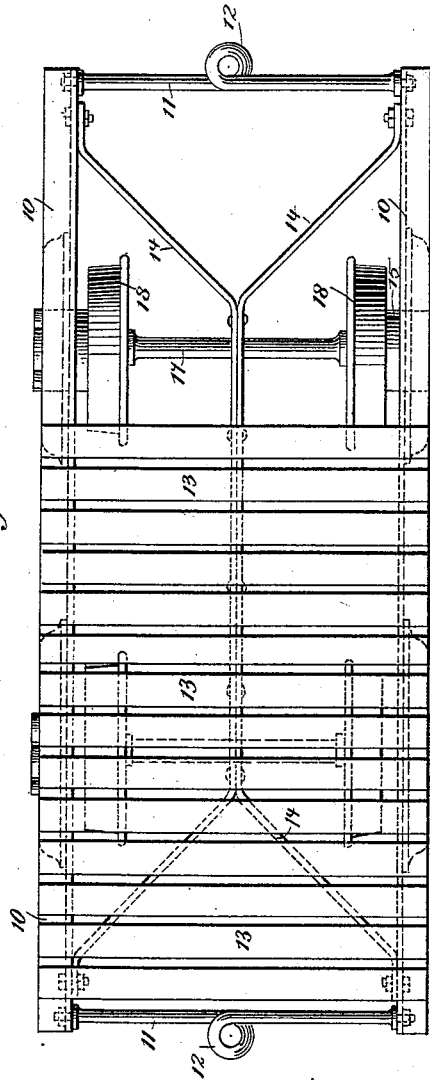


Fig 2



WITNESSES:

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UNITED STATES PATENT OFFICE.

PHINEAS ARNOLD, OF CANAL DOVER, OHIO.

DRIER-CAR.

SPECIFICATION forming part of Letters Patent No. 419,306, dated January 14, 1890.

Application filed October 23, 1889. Serial No. 327,914. (No model.)

To all whom it may concern:

Be it known that I, PHINEAS ARNOLD, of Canal Dover, in the county of Tuscarawas and State of Ohio, have invented a new and useful Improvement in Drier-Cars, of which the following is a full, clear, and exact description.

My invention relates to an improvement in drier-cars, especially to that class of cars adapted for use in connection with a kiln for purposes of support in the process of drying preparatory to burning brick.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter more fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference indicate corresponding parts in both the views.

Figure 1 is a side elevation of the car, and Fig. 2 is a plan view of the same.

In the construction of the car the bed consists, preferably, of two side bars or beams 10, shaped as an angled iron, which side bars or beams are connected at each end by a rod 11, each of the rods having an eye 12 formed at or near its center, adapted to receive a hook, chain, or other device, whereby the car may be drawn from place to place. The bed is completed by bolting or otherwise securing to the horizontal members of the side bars or beams 10 a series of plates 13, which plates are preferably flat and rectangular in cross-section. The plates are attached to the angled irons by means of bolts, rivets, or equivalent devices, and are so placed that a space of predetermined width will intervene each plate. The bed is braced and strengthened by the addition of two brace-bars 14, which are essentially U-shaped in general contour, and the bow portions are placed back to back and securely bolted together, the ends of the brace-bars being carried in opposite directions and screwed to the vertical members of the angled irons 10, as best shown in Fig. 2, from which it will be observed that the connected brace-bars partake somewhat of the contour of an elongated X. These brace-bars also serve as a support for the plates 13, as the upper edges of the bars are flush with the corresponding face of the side beams 10. From the outer face of each angle bar or

beam 10 hangers 15 are downwardly projected, preferably provided with anti-friction bearings 16, of any suitable or approved construction, and in said hangers the axles 17 of the car are journaled, the wheels 18 being attached to the axles at the inner side of the bearing-boxes and within the frame of the car.

It will be observed that by the above construction I obtain an economic and durable car, and one upon which brick may be readily and safely placed and quickly dried, and that while the whole structure is exceedingly strong it is also exceptionally light.

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

1. A drier-car comprising a bed consisting of angled side pieces connected at their ends by cross-bars, spaced slats transversely connecting the cross-bars, a brace attached to the side pieces resembling, essentially, an elongated X, and hangers projected downward from the side pieces of the bed, adapted to journal the axles of the carrying-wheels, substantially as shown and described.

2. In a drier-car, the combination, with angled side beams or bars and cross-bars connecting the said beams at their ends, having an eye formed at their center, of a series of slats secured transversely at intervals upon the upper surface of the angled side bars or beams, and brace-rods, substantially as shown and described, connected to each other and to the said angled bars, substantially as and for the purpose specified.

3. In a drier-car, the combination, with angled side bars or beams, cross-bars connecting the said side bars or beams, each cross-bar being provided with an eye, and a series of spaced slats transversely secured to the upper face of the said side bars or beams, of a brace-rod resembling, essentially, an elongated X, attached to the side bars or beams, and hangers projected downward from said side bars or beams, provided with anti-friction bearings and adapted to journal the axles of the carrying-wheels, substantially as and for the purpose specified.

PHINEAS ARNOLD.

Witnesses:

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GEORGE BETCHER.