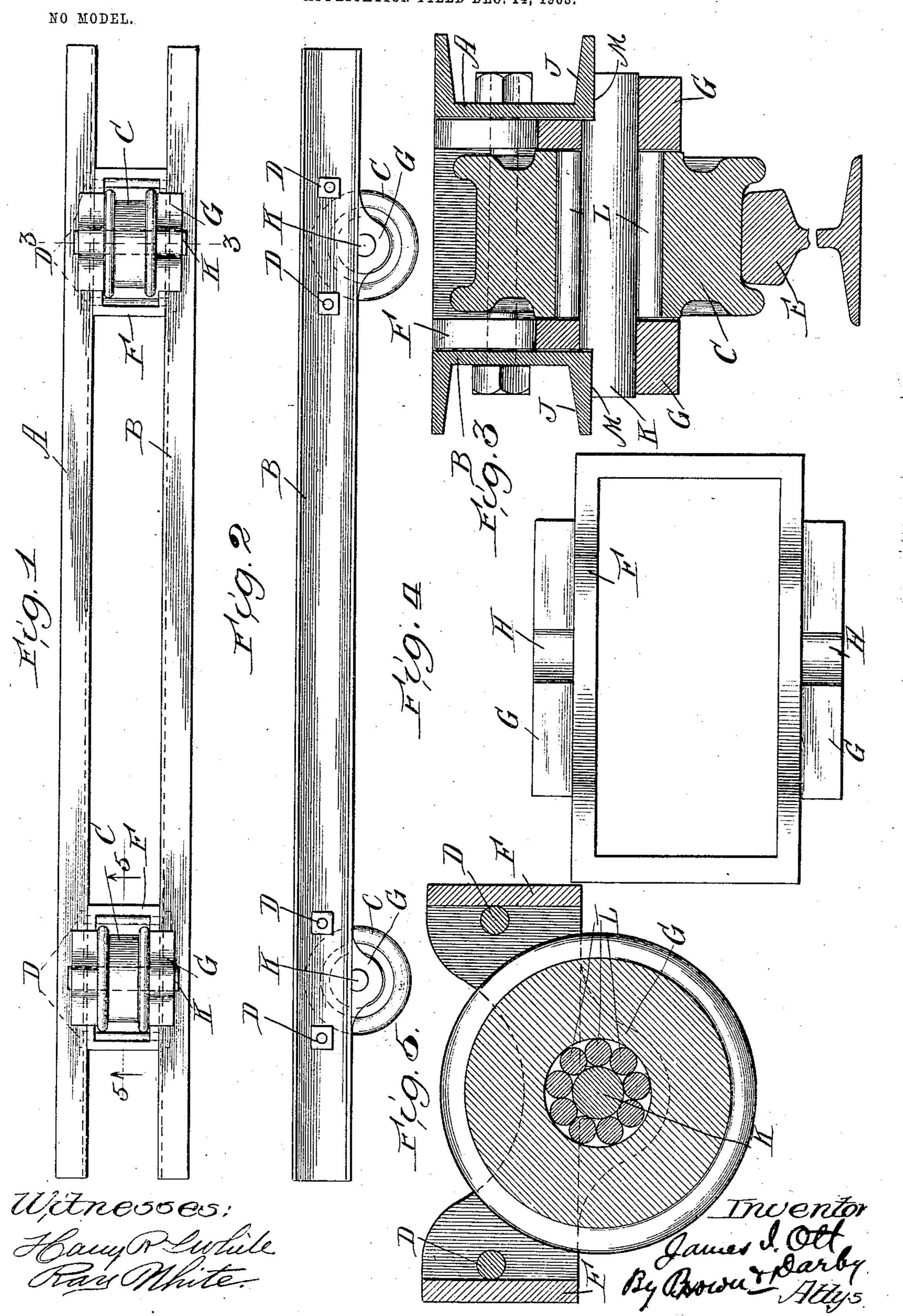
J. I. OTT.
BUNK OR TRUCK FOR LUMBER DRIERS.
APPLICATION FILED DEC. 14, 1903.



United States Patent Office.

JAMES I. OTT, OF CHICAGO, ILLINOIS.

BUNK OR TRUCK FOR LUMBER-DRIERS.

SPECIFICATION forming part of Letters Patent No. 765,751, dated July 26, 1904.

Application filed December 14, 1903. Serial No. 185,104. (No model.)

To all whom it may concern:

Be it known that I, James I. Ott, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Bunk or Truck for Lumber-Driers, of which the following is a specification.

This invention relates to bunks or trucks for

lumber-driers.

The object of the invention is to provide a bunk or truck which is simple and economical in construction and efficient in operation.

The invention consists, substantially, in the construction, combination, location, and relative arrangement of parts, all as will be more fully hereinafter set forth, as shown in the accompanying drawings, and finally pointed out in the appended claims.

Referring to the accompanying drawings, and to the various views and reference-signs appearing thereon, Figure 1 is a view in top plan of a bunk or truck embodying the principles of my invention. Fig. 2 is a side elevation of the same. Fig. 3 is a transverse section on the line 3 3 of Fig. 1. Fig. 4 is a detached detail view in plan of the truck-wheel-supporting casting. Fig. 5 is a view in section on the line 5 5, Fig. 1.

The same part is designated by the same correference-sign wherever it occurs throughout

the several views.

In use the lumber to be dried and seasoned is piled upon two or more bunks or trucks, and the loaded bunks or trucks are then run 35 into the drying-room, where it is retained until it has become sufficiently seasoned, and thereafter the bunks or trucks are run out of the drying-room and the lumber unloaded therefrom. In practice the bunks or trucks 40 are usually employed in sets of two or three, the lumber when of short lengths being supported at each end thereof on a bunk or truck, and when the lumber is of greater length a third bunk or truck is placed underneath the 45 center of the lumber, the bunks or trucks operating on track-rails and to this end being provided with truck-wheels.

The truck or bunk comprises channel-beams A B of suitable length and suitably spaced apart to receive truck-wheels C therebetween,

the side or channel beams A B being suitably clamped or secured together—as, for instance, by bolts D. It is usual to employ a truckwheel Cat each end of the bunk or truck. In order to secure lightness, which is a desir- 55 able feature and consideration, it is advisable to employ as narrow channel-beams as possible, and in order to prevent undue wear on the surfaces of the truck or bunk wheels which operate on the track-rails, as indicated at E, 60 Fig. 3, it is desirable that said truck or bunk wheels be of as large diameter as possible. In the ordinary construction of bunks or trucks for use in lumber-driers or drying-kilns, where the truck-wheels are supported upon axles hav- 65 ing their ends received through openings in the webs of the side beams or channel-bars, either the diameter of the truck or bunk wheels must be reduced in order that the peripheral surface thereof may not project above the top or sup- 7° porting surface of the side bars or beams or else the side bars or beams must be of great width in order to receive therebetween the truck-wheels without permitting the peripheries of the truck-wheels to extend above the 75 top surface of said side beams. In either case an objection is encountered. In the one case the truck-wheels are made so small in diameter as to bind on the track-rails, and in the other case the side beams are made so heavy 80 that it is difficult for the trucks or bunks to be readily handled. It is among the special purposes of my present invention to avoid these objections and to provide a construction of bunk or truck for use in lumber-driers or 85 kilns which is efficient and light, and thereby readily handled, and also wherein I am enabled to employ truck or bunk wheels of sufficient diameter to avoid binding of the same upon the track-rails.

In carrying out my invention I employ a casting F in the form of a rectangular frame arranged to be received between the channel beams or bars A B and against the sides of which casting the inner surfaces of the webs 95 of the channel-beams lie, as clearly shown. At each side thereof the casting F is provided with a depending shouldered extension G. In each depending shouldered extension G is formed a semicircular seat H. The upper sur-

faces of the extensions G form a bearing-surface arranged to bear against the under surface of the lower flange J of the side beams AB. By this means the casting F constitutes 5 a spreading device to maintain the channelbeams A B suitably separated. The clampbolts D pass transversely through webs of the channel-beams A B and through the sides of the casting F and serve to clamp and draw 10 these parts into clamping relation with respect to each other. The truck-wheels C are mounted upon axles K on roller-bearings, if desired, as indicated at L, in the ordinary or any usual manner, the ends of the axle K be-15 ing received in semicircular seats H, formed in the extensions G of casting F. If desired, and preferably, the axles K are reduced on one side thereof adjacent to their ends, as indicated at M, such reduced or flattened surfaces 20 of the axles bearing against the under surface of the lower flange J of the side beams A B, as clearly shown in Fig. 3. From this description it will be seen that I provide an exceedingly simple and efficient construction, where-25 in instead of supporting the axles for the truckwheels in openings formed through the webs of the channel-beams, and which would necessarily prescribe the diameter of the wheels or else necessitate an undesirable width of chan-30 nel-beam, and consequently result in an undesirably-increased weight, I mount the axles which carry the truck-wheels in a casting which is placed between the channel-beams and serves as a spreader to keep the same sepa-35 rated and which is provided with depending extensions which depend below the lower flange of the channel-beams, thereby enabling me to lower the position of the axles sufficiently to permit of the use of wheels of increased di-4° ameter and without materially adding to the weight of the bunk or truck. It will also be seen that I provide a construction in which the parts are compactly held together, the casting bearing against the inner opposed sur-45 faces of the webs of the channel-beams and also against the under surfaces of the lower flanges thereof, thus forming efficient support for the channel-beams and enabling the parts to be clamped together by the ordinary secur-5° ing or clamp bolts. It will also be observed that by extending the ends of the axles K and providing the extended ends thereof with reduced or flattened surfaces which bear against the under surface of the lower flange J of the 55 side beams AB, as above described, the weight of the bunk or truck and of the load carried thereby is imposed upon the axles through the channel-beams, thereby enabling me to greatly reduce the weight of the casting F, 60 and hence materially reducing the weight of the bunk and the cost of manufacture of the same.

It is obvious that many variations and changes in the details of construction and ar-

rangement would readily occur to persons 65 skilled in the art and still fall within the spirit and scope of my invention. I do not desire, therefore, to be limited or restricted to the exact details shown and described. It will also be seen that I am enabled to employ cast-70 ings which do not require machine-finishing, thereby greatly reducing the cost of manufacture. It will also be seen that I provide a construction which is not only economical in manufacture and efficient, but which is light 75 without sacrificing durability and wherein truck-wheels of increased diameter may be employed.

What I claim as new and useful and of my own invention, and desire to secure by Letters 80

Patent, is—

1. A bunk or truck comprising side bars or beams, a casting arranged to be received between said side bars or beams, said casting provided with depending extensions, an axle 85 supported in said depending extensions, and having its ends arranged to extend into position to bear against the under side of the side bars or beams, and a truck-wheel mounted upon said axle, as and for the purpose set 90 forth.

2. In a bunk or truck for lumber-driers, the combination with side beams, of a casting arranged to be received between said side beams and provided with depending extensions forming shoulders arranged to support said side beams, means for clamping said side beams together and upon said casting, an axle having its ends received in seats formed in said depending extensions of the casting, said 100 axle having its ends arranged to extend into position to bear against the under side or surface of the side bars or beams, and a wheel journaled upon said axle, as and for the purpose set forth.

3. In a bunk or truck for lumber-driers, the combination with side beams, of a casting arranged to be received between said side beams at each of the ends of the latter, said casting having sides against which said side 110 beams bear, each casting having a depending extension arranged to bear against the under surface of said beams, seats formed in said depending extensions, an axle having its ends received in the seats in the extensions of each 115 casting, said axles having reduced surfaces arranged to bear against the under side of the side beams, truck-wheels journaled upon said axles, and bolts for clamping said side beams against the sides of said castings, as and for 120 the purpose set forth.

In witness whereof I have hereunto set my hand, this 12th day of December, 1903, in the presence of the subscribing witnesses.

JAMES I. OTT.

Witnesses:

CHAS. H. SEEM, S. E. DARBY.