No. 765,750. PATENTED JULY 26, 1904.

J. I. OTT.

TRACK RAIL SUPPORTING POST FOR DRY KILNS.

APPLICATION FILED DEC. 14, 1903.

NO MODEL.

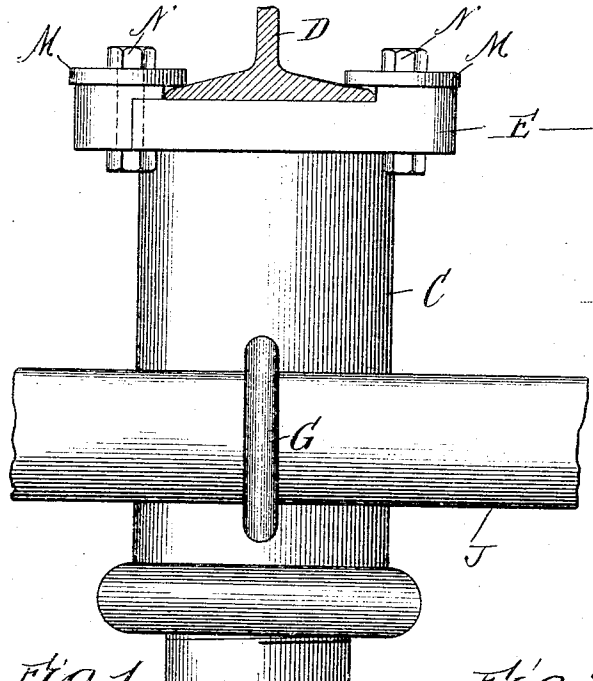


Fig. 1

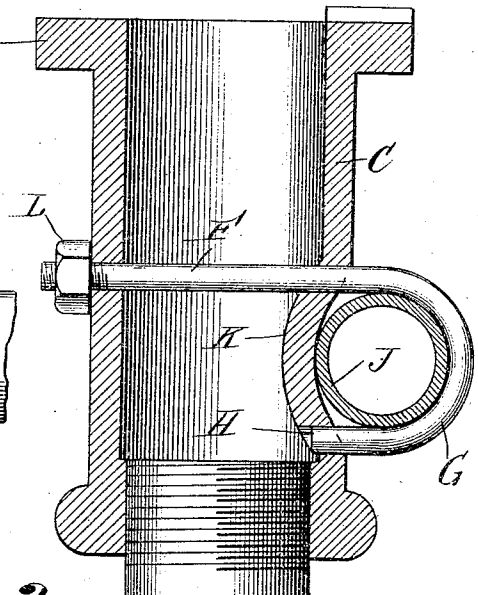
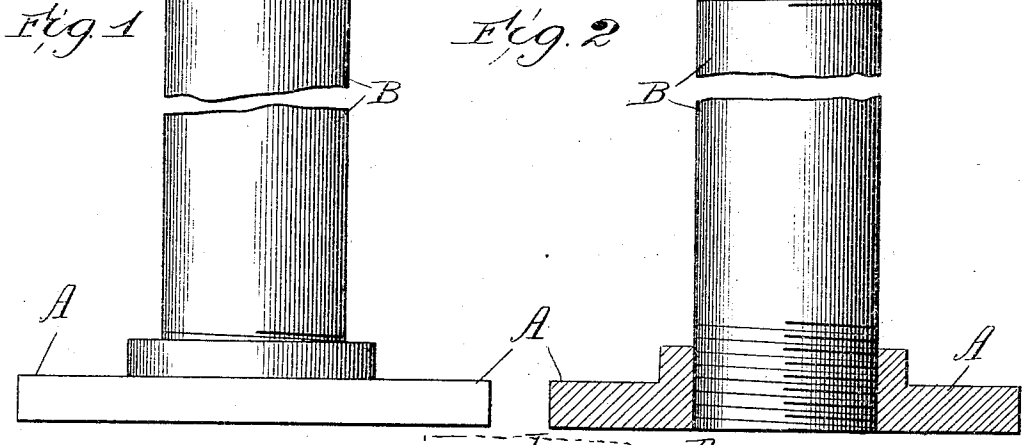


Fig. 2



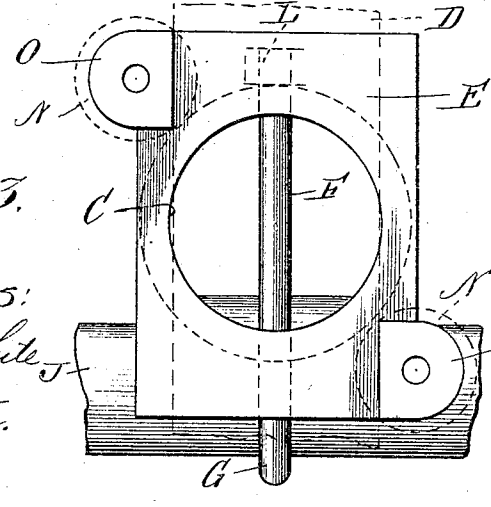


Fig. 3.

Witnesses:
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By Brown & Darby
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No. 765,750. Patented July 26, 1904.

UNITED STATES PATENT OFFICE.

JAMES I. OTT, OF CHICAGO, ILLINOIS.

TRACK-RAIL-SUPPORTING POST FOR DRY-KILNS.

SPECIFICATION forming part of Letters Patent No. 765,750, dated July 26, 1904.

Application filed December 14, 1903. Serial No. 185,103. (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 Track-Rail-Supporting Post for Dry-Kilns, of which the following is a specification.

This invention relates to track-rail-supporting posts for dry-kilns.

The object of the invention is to provide a construction of track-rail-supporting post which is simple and efficient and economical in manufacture, wherein the desired adjustment of the height of the track-rail may be effected, and wherein efficient means are provided for supporting the heating-coils employed in connection with the dry-kiln.

Other objects of the invention will appear more fully hereinafter.

The invention consists, substantially, in the construction, combination, location, and 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 side elevation of a track-rail-supporting post constructed in accordance with the principles of my invention and showing a broken-off portion of the rail in supported relation with respect to the post. Fig. 2 is a view, partly in central vertical section, of the track-rail-supporting post. Fig. 3 is a top plan view of the same.

The same part is designated by the same reference-sign wherever it occurs throughout the several views.

In the construction of dry-kilns it is usual to support the lumber to be dried upon bunks or trucks, said trucks operating upon track-rails extending through the kiln, and the bunks or trucks carrying the lumber piled thereon are advanced through the kiln or retained therein a sufficient length of time to enable the lumber to become thoroughly dried, heating-coils being employed to furnish or supply the necessary heat for effecting the drying of the lumber. In practice the track-rails upon which the bunks or trucks are mounted are supported upon posts, so as to elevate the track-rails to a sufficient height to enable heating-coils to be placed beneath the rails. Formerly the supports for the track-rails were constructed of wood, as were also the supports for the heating-coils. Such construction became objectionable by reason of the fact of deteriorating and of burning out from the heat generated in the kiln. In substituting iron or metallic supports for the rails and for the heating-coils it became an object of desirability to reduce the cost of manufacture of the supports and to make the same light and adjustable. It is among the special objects of my present invention to accomplish these results of economy and lightness in the construction of the track-rail-supporting posts and heating-coil supports and at the same time to provide an efficient rail and heating-coil support wherein the rail-supporting posts are held against lateral rotary displacement, while at the same time permitting a desirable adjustment of the height thereof.

In carrying out my invention I employ a base-plate A, having a threaded bore or opening therethrough into which is threaded the end of a pipe or tube B. This pipe or tube is threaded at the upper end thereof, said threaded end being received into the threaded end of a sleeve C, constituting the support proper, upon the upper end of which the rail D rests, said pipe-section or sleeve C being provided with an enlarged head E to form a support for the rail-base, as clearly indicated. From this construction it will be seen that I provide an exceedingly simple and durable construction which is light and economical of manufacture and wherein vertical adjustment may be readily secured of the height at which the rails D are supported. The sleeve or pipe-section C is provided with transverse openings through the walls thereof in which is received the shank F of a securing-bolt, said securing-bolt having a hooked end G, the extreme end H of the hooked portion G of the supporting-bolt being received when said clamp-bolt is clamped up into place in a slot or opening formed in the shell or pipe-section C. The hooked end G of the clamp-bolt af-

fords means for supporting a pipe, bar, or other suitable piece J, upon which the heating-coils are to be received and supported. Preferably and in order to secure lightness this supporting part J is in the form of a cylindrical pipe, and in order to afford an efficient support for said supporting-pipe J, I prefer to provide a recess or bend (indicated at K) in the side surface of the sleeve or pipe-section C, against which the supporting-pipe J rests, as clearly shown in Fig. 2. Of course it will be understood that in a dry-kiln a number of such supporting-posts are employed in connection with each track-rail, and the steam-coil supports J are similarly clamped and supported upon each or any desirable number of such supports. In order to assemble the parts, the base-plate A is placed in proper position upon the floor of the room or building constituting the kiln and the pipe-section B screwed into or otherwise secured to the threaded opening in said base and adjusted for height. The upper or threaded end of the pipe-section B is then screwed into the threaded lower end of the sleeve or pipe-section C, thus affording additional means for securing vertical adjustment of the head E of the pipe or sleeve section C. The shank F of the supporting and clamping bolt is passed through the openings in the sleeve or pipe section C, with the hooked end G embracing or encircling a steam or heating coil support J. A clamp-nut L is then applied to the threaded end of shank F to draw said clamp-bolt into position to clamp the steam-coil support into bearing relation with the depressed or bent surface K of the sleeve or pipe-section C, the end H of the hooked portion of the clamp-bolt being received in a slot or opening in the sleeve or pipe-section C. In this manner the heating-coil support J is efficiently supported and at the same time axial rotation of the sleeve or pipe-section C is prevented, and by reason of the prevention of axial or rotary displacement of said sleeve or pipe-section C I am enabled to dispense with at least two of the ordinary clamping means employed for clamping the rail-flange down upon the supporting seat or head E of the supporting-post. I have shown clamping means in the form of clamping-washers M, secured by clamp-bolts N in ears O at diagonally opposite corners of the rail-supporting head E, and this I have found sufficient.

Having now set forth the object and nature of my invention and a construction embodying the principles thereof, what I claim as new and useful and of my own invention, and desire to secure by Letters Patent, is—

1. A rail-supporting post for use in drying-kilns, comprising upper and lower sections, said upper section having a head forming a support for a rail-base, a heating-coil support, means for securing said heating-coil support to said upper section, a lower post-section having threaded connection with the lower end of said upper section, whereby said upper section may be adjusted as to height without lateral displacement of the rail or heating-coil support relative to the axis of said upper section, as and for the purpose set forth.

2. A track-rail-supporting post for use in drying-kilns, made in relatively adjustable sections, one of said sections formed to receive a clamp-bolt therethrough, said clamp-bolt provided with a hooked end, and a heating-coil support carried by said hooked end, as and for the purpose set forth.

3. A track-rail-supporting post for use in drying-kilns, having a bent or depressed portion in the side surface thereof, in combination with a heating-coil support, and a clamp-bolt for clamping the same against said bent or recessed surface, as and for the purpose set forth.

4. A track-rail-supporting post for use in drying-kilns, having a supporting-head upon which the track-rail rests, and means for clamping the track-rail to said head at diagonally opposite points, said post having a bent or recessed portion in the side surface thereof, in combination with a heating-coil support arranged to rest in the seat formed by said bent or recessed surface, and a clamping-bolt for clamping said heating-coil support to its seat, as and for the purpose set forth.

5. A track-rail-supporting post for use in drying-kilns, having openings therein, a clamp-bolt arranged to pass through said openings and provided with a hooked end, the extreme end of the hooked portion being also received in an opening in said post, and a heating-coil support arranged to be embraced by said hooked portion, and a clamp-nut for clamping said bolt in place, as and for 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.