

(No Model.)

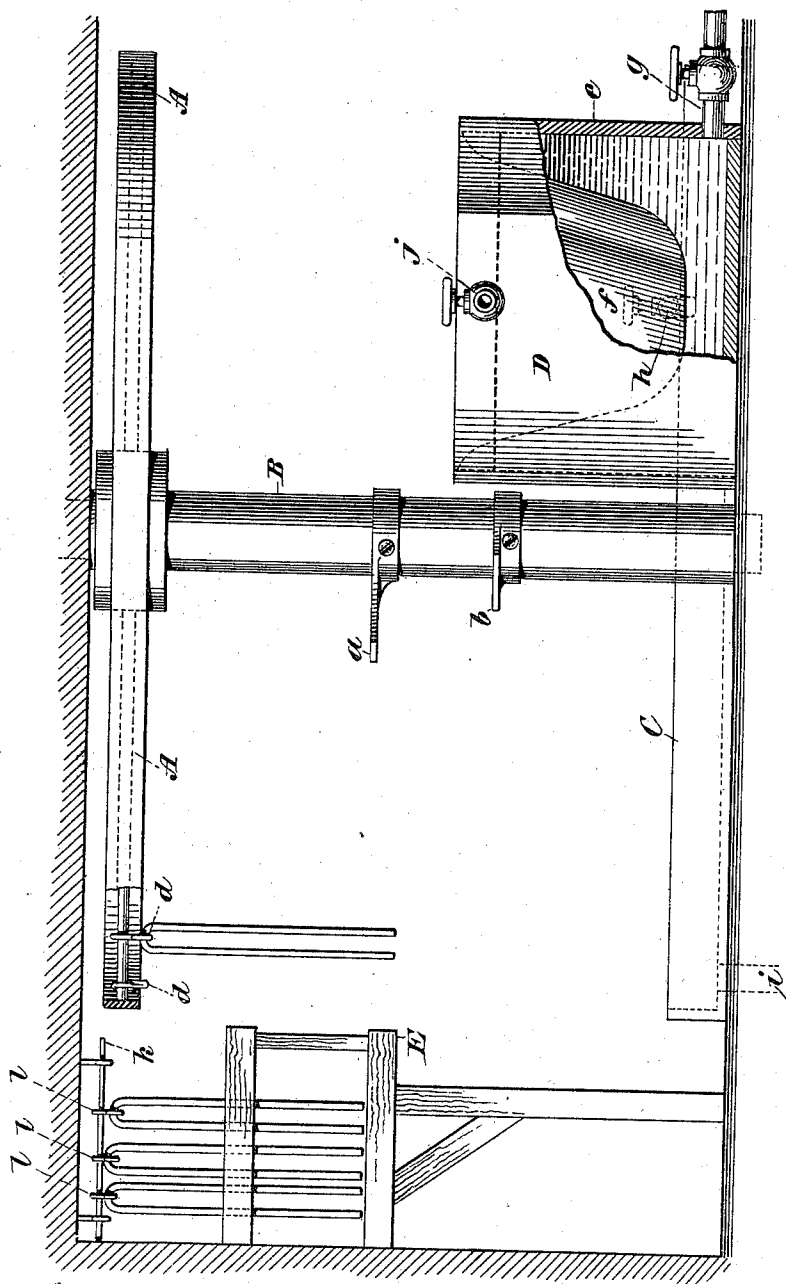
2 Sheets—Sheet 1.

M. M. NICHOLLS.
PLANT FOR COATING AND DRYING TUBING.

No. 577,876.

Patented Mar. 2, 1897.

Fig. 1.



WITNESSES

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Charles E. Smith

INVENTOR

Mark M. Nicholls,
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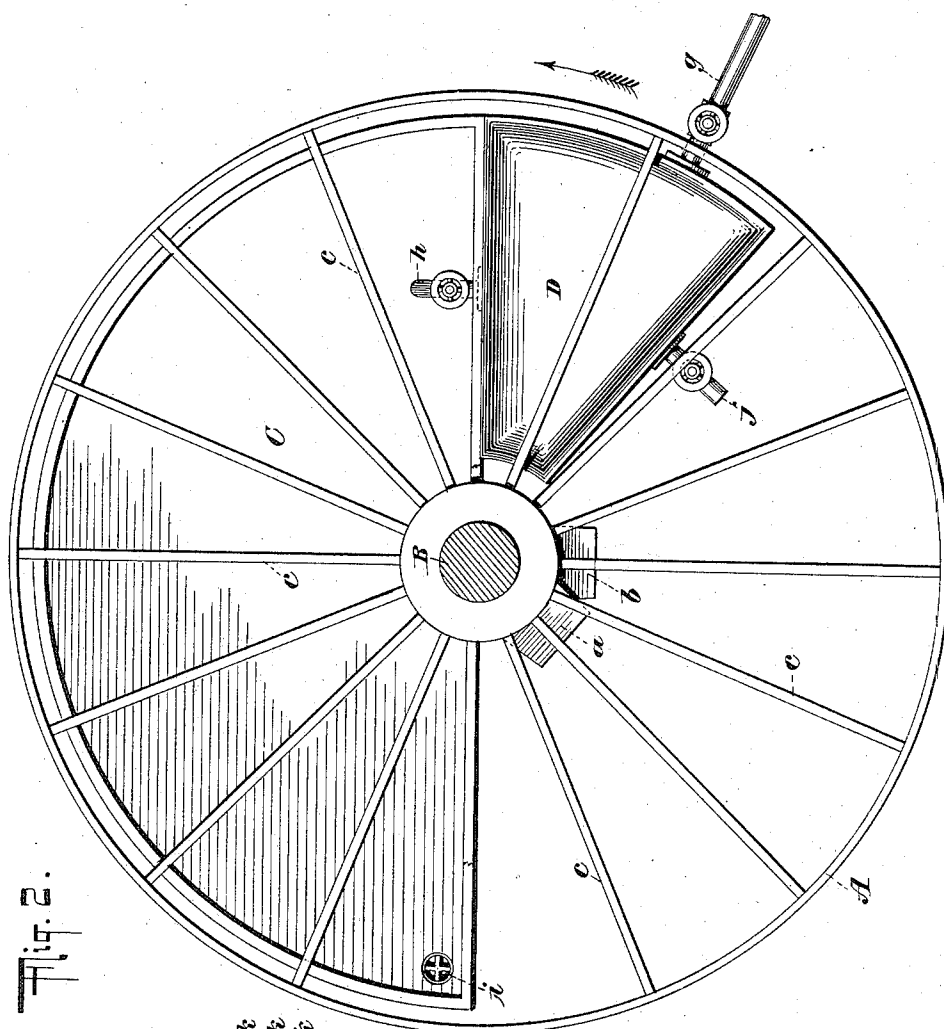
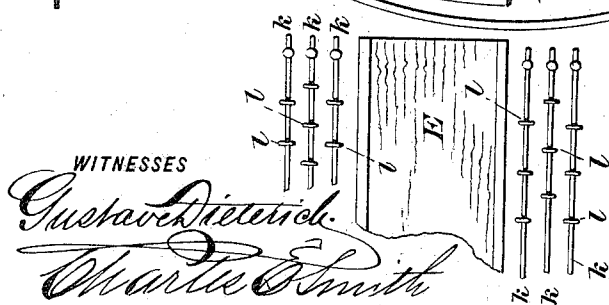


Fig. 2.



WITNESSES

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UNITED STATES PATENT OFFICE.

MARK M. NICHOLLS, OF NEW YORK, N. Y.

PLANT FOR COATING AND DRYING TUBING.

SPECIFICATION forming part of Letters Patent No. 577,876, dated March 2, 1897.

Application filed September 26, 1896. Serial No. 607,040. (No model.)

To all whom it may concern:

Be it known that I, MARK M. NICHOLLS, a resident of the city, county, and State of New York, have invented certain new and useful
5 Improvements in Apparatus for Coating and Drying Tubing, of which the following is a specification.

My invention relates to apparatus for drying and coating tubing; and the object of said
10 invention is to provide a simple and efficient means for readily coating and drying the tubing without unnecessary handling thereof.

To this end my invention consists in the novel arrangement and combination of parts
15 hereinafter described, and specifically pointed out in the claims.

In the accompanying drawings, wherein like characters indicate corresponding parts in the various figures, Figure 1 is a side view
20 of parts broken away of a sufficient number of parts of an apparatus to illustrate my invention. Fig. 2 is a plan view of the same.

A horizontally-rotatable drying-wheel A is mounted a considerable height, preferably
25 upon a standard B, upon which adjustable platforms *a b* are carried. The wheel A is provided with a series of radiating spokes *c*, each of which is preferably provided with a series of hooks *d* for supporting the tubing or
30 other article to be dried. This wheel A may be rotated by hand or otherwise. Beneath the wheel A is a drip-pan C, which is preferably located upon the floor and conforms to a portion of the wheel. A coating-vat D is
35 provided under the wheel and may be of any suitable configuration, but preferably forms the segment of a circle, as indicated in Fig. 2. This coating-vat is located adjacent to the drip-pan C and comprises an outer casing *e*,
40 in which is contained a vessel *f* for receiving the coating liquid. Between the casing *e* and the vessel *f* is a space for containing water or other suitable heating medium for maintaining the liquid in the vessel *f* in a heated condition. A steam or hot-water inlet pipe *g* connects
45 with the casing *e*, while a water-outlet *h* connects with said casing and projects over the drip-pan *c*, so that water contained within the casing *e* may be carried off through
50 said outlet-pipe to the drip-pan and from the drip-pan off through an outlet *i* therein. A

steam-outlet *j* is provided near the upper portion of the casing for allowing of the discharge of steam from between the casing *e* and vessel *f* when desired.

E represents a platform on the opposite side
55 of the wheel to the coating-vat, which is located adjacent to the wheel for purposes which will hereinafter appear. In proximity to the platform E is a series of drying-racks
60 *k*, upon which is preferably mounted a series of tube-receiving hooks *l*.

In operation the tubes dip into the coating-vat D and are placed by an operator upon the hooks carried by the spokes on the wheel A.
65 When one spoke has been filled, the wheel is rotated in the direction of the arrow in Fig. 2 to bring the next spoke in position to receive the coated tubes. All the surplus coating material which is contained on the tubes
70 drips therefrom in the passage of the tube on the wheel from the point over the coating-vat to the drying-racks adjacent to the platform E, so that when the tubes have reached
75 a position opposite to this platform they are sufficiently dry to be taken off the drying-wheel and placed upon the permanent drying-racks *k* by an operator on the platform E, at which point no further dripping of the
80 coating material is provided.

It will be observed that by my invention I provide a simple and efficient means for coating and drying the tubes and by which a considerable loss of coating material is obviated.
85 The principal portion of the coating material drips into the vat before the wheel is rotated to carry the tubing away from the vat, the remainder of such coating material being caught in the drip-pan C, from which it may
90 be collected or allowed to run off through the outlet *i*, as desired. It is obvious that the platform E may extend to any length and connect with other platforms having drying-racks *k* adjacent thereto.

Having described my invention, what I
95 claim, and desire to secure by Letters Patent, is—

1. An apparatus of the character described comprising a horizontally-rotatable drying-wheel having tube-supporting spokes radiating
100 therefrom, hooks upon said spokes, a drip-pan under the said wheel for receiving the

drippings from articles on said wheel, and a heated vat located under said wheel and in close proximity to the drip-pan, substantially as described.

- 5 2. An apparatus of the character specified comprising a horizontally-rotatable drying-wheel A having supporting-spokes *c* radiating therefrom, tube-supporting hooks upon said spokes, a drip-pan C under said wheel
10 and conforming in contour to a portion thereof for receiving the drippings from articles carried upon said wheel, a heated vat located under said wheel and in proximity to the drip-pan, said vat comprising an outer casing *e*, a
15 coating-containing vessel *f* with a heating-jacket formed between said casing *e* and vessel *f*, and means for heating fluid contained in said casing and for discharging said fluid

to the drip-pan when desired, substantially as described.

- 20 3. An apparatus of the character described comprising a horizontally-rotatable drying-wheel having tube-supporting spokes radiating therefrom, hooks upon said spokes, a drip-pan under the said wheel for receiving the
25 drippings from articles on said wheel, a heated vat located under said wheel and in close proximity to the drip-pan, and drying-racks in close proximity to the periphery, whereby the partly-dried articles upon the wheel may
30 be readily transferred to the drying-racks, substantially as described.

MARK M. NICHOLLS.

Witnesses:

CHARLES E. SMITH,
HARRY M. TURK.