

No. 655,092.

Patented July 31, 1900.

C. F. F. KÖPPING.

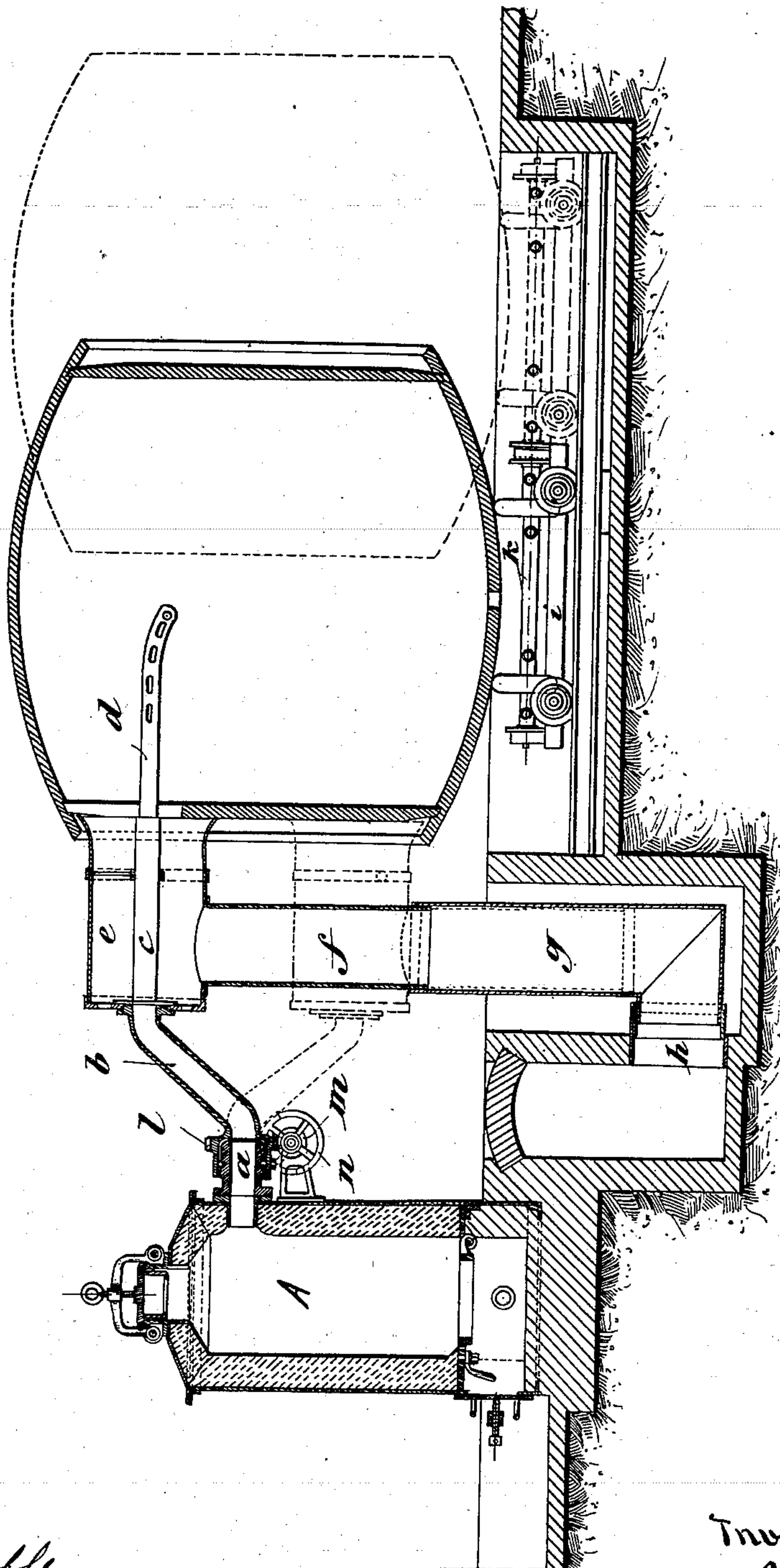
DEVICE FOR REMOVING PITCH FROM TUNS OR CASKS.

(Application filed Nov. 24, 1899.)

(No Model.)

2 Sheets—Sheet 1.

Fig. 1.



Witnesses:

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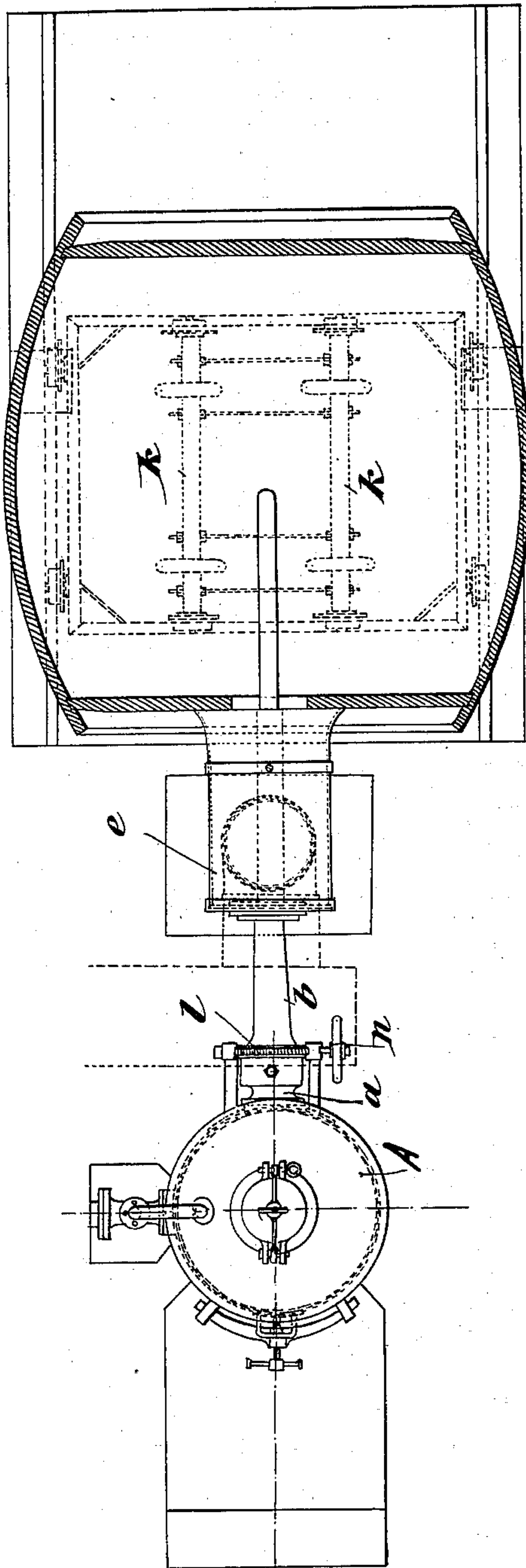
DEVICE FOR REMOVING PITCH FROM TUNS OR CASKS.

(Application filed Nov. 24, 1899.)

(No Model.)

2 Sheets—Sheet 2.

Fig. 2.



Witnesses.

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UNITED STATES PATENT OFFICE.

CARL FRIEDRICH FRANZ KÖPPING, OF CHEMNITZ, GERMANY.

DEVICE FOR REMOVING PITCH FROM TUNS OR CASKS.

SPECIFICATION forming part of Letters Patent No. 655,092, dated July 31, 1900.

Application filed November 24, 1899. Serial No. 738,136. (No model.)

To all whom it may concern:

Be it known that I, CARL FRIEDRICH FRANZ KÖPPING, a subject of the German Emperor, and a resident of Chemnitz, Germany, have
5 invented certain new and useful Improvements in Devices for Removing Pitch from Tuns or Casks, of which the following is a specification.

This invention relates to the construction
10 of nozzles or twyers for removing pitch from tuns or casks, and more particularly to the arrangement of the suction-pipe in machines employed for this purpose.

The invention consists in the construction,
15 novel combination, and arrangement of parts, fully described hereinafter and specifically pointed out in the appended claims.

In the accompanying drawings, Figure 1 is
20 a vertical longitudinal sectional view of the improved construction. Fig. 2 is a top plan view of the same, the cask being shown in horizontal section.

Like letters refer to like parts throughout
both views.

25 Referring to the drawings, A represents a vertically-arranged cylindrical coke-oven of usual construction and provided at its upper part with a cylindrical coupling *a*, suitably secured in the wall of the oven. On this coupling is adapted to rotate an elbowed arm *b*,
30 suitably held on said coupling—for instance, by means of pins or the like engaging a circular groove on the coupling—and carrying the pipe *c*. Upon the latter is arranged the
35 perforated nozzle *d*, having its free end turned downward and extending into the tun or cask and adapted to rotate and move on said pipe. *e* is a suction-head adapted to rotate on
40 *c* and rigidly connected with the downwardly-extending pipe *f*, extending movably into the revoluble elbowed pipe *g*, adapted to rotate on the stationary pipe *h*, leading to the smoke-conduit. *i k* represent a double or combined
45 carriage adapted to move in two directions and permitting of the easy manipulation of tuns or casks. *l* is a worm gear-wheel keyed upon the revoluble elbow *b* and meshing with a screw *m*. *n* is a hand-wheel on said screw for actuating the same.

50 The operation of the improved construction is as follows: The tun or cask is rolled upon the carriage *i k*, so that the usual door there-

of is at the top and that the bung-hole is at the bottom. (See dotted-line position.) Then the movable elbowed arm *b* is brought in a
55 position by means of the hand-wheel *n* actuating the screw *m* and the worm-wheel *l*, so that the pipe *c* and the nozzle *d* are on a level with the door of the tun or cask. Now the carriage *k*, together with the tun or cask, is
60 moved laterally on the carriage *i* until the door is brought in front of the nozzle *d*, whereupon the carriage *i*, together with the tun or cask, is moved forward until the front wall of the latter engages the suction-head *e*.
65 (See full-line position.) Now the pipe *c* and nozzle *d* extend into the tun or cask, while the door of the latter is closed by means of the suction-head *e*. The combustion-gases coming from the coke-oven A pass through
70 the coupling *a*, the elbow *b*, the pipe *c*, and the nozzle *d* into the tun or cask and produce the melting of the old pitch, and as the bung-hole of any tun or cask is always at the bottom the melted pitch flows readily
75 out from the tun or cask. The smoke produced in the operation is sucked through the door, the suction-head *e*, and the pipes *f g h* into the chimney by the natural draft there-
80 through.

The suction-head *e* and the pipes *f* and *g* are moved as follows: When the elbowed arm *b* is rotated on the coupling *a* by means of the hand-wheel *n*, the screw *m*, and worm-wheel *l*, the suction-head *e* and the pipe *f* will
85 move about the pipe *c*, while the pipe *f* moves within the elbowed pipe *g*, whereby the latter is rotated on the stationary pipe *h*.

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

1. In apparatus of the character described, the combination with a suitable oven, a coupling secured to said oven, an elbowed pipe revolubly mounted on said coupling, a tubular
95 extension on said pipe adapted to project into the cask, means for conducting smoke from the latter, means for manipulating the cask, and means for actuating said elbowed pipe, substantially as set forth. 100

2. In apparatus of the character described, the combination with a suitable oven, of a coupling secured in the wall of the oven, a pipe revolubly mounted on said coupling, an

extension on said pipe adapted to project into
the cask; a suction-head revolvably mounted
on said extension and communicating with
the doorway of the cask, a pipe communicat-
5 ing with said suction-head and adapted to
slide into a second pipe, a conduit communi-
cating with the chimney and receiving the
end of said second pipe, means for actuating

the movable parts described, and means for
moving casks to and from the suction-head, 10
substantially as described.

CARL FRIEDRICH FRANZ KÖPPING.

Witnesses:

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RICHARD SCHEIBNER.