

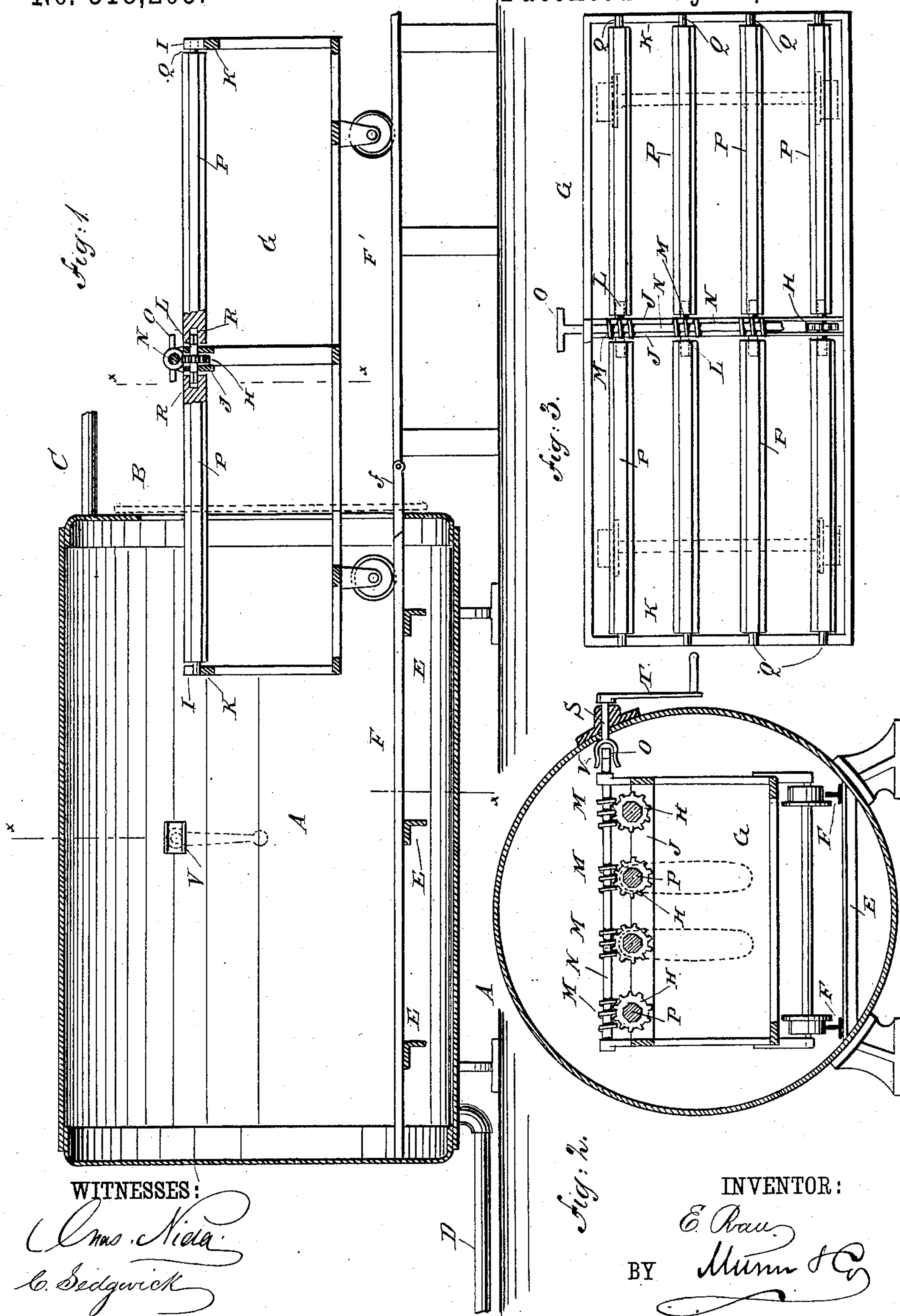
(No Model.)

E. RAU.

APPARATUS FOR STEAMING DYED FABRICS.

No. 318,205.

Patented May 19, 1885.



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UNITED STATES PATENT OFFICE.

EUGENE RAU, OF BROOKLYN, NEW YORK.

APPARATUS FOR STEAMING DYED FABRICS.

SPECIFICATION forming part of Letters Patent No. 318,205, dated May 19, 1885.

Application filed March 11, 1884. (No model.)

To all whom it may concern:

Be it known that I, EUGENE RAU, of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Apparatus for Steaming Dyed Fabrics, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved apparatus for steaming dyed fabrics in such a manner that they will not become striped or spotted by being steamed.

The invention consists in the combination, with a boiler or steam-vessel, of a car or frame adapted to pass into the same, which car or frame carries a series of rods or bars, from which the fabrics to be steamed are suspended, which rods are combined with devices for revolving them, the said devices being adapted to be operated from the outside of the boiler, all as hereinafter fully described, and pointed out in the claim.

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

Figure 1 is a longitudinal sectional elevation of my improved apparatus for steaming dyed fabrics. Fig. 2 is a cross-sectional elevation of the same on the broken line *x x x x*, Fig. 1. Fig. 3 is a plan view of the car.

A horizontal boiler, A, is provided at one end with a door, B, and with a steam-inlet pipe, C, and a steam-outlet pipe, D.

On cross-bars E, on the bottom of the boiler, tracks F are arranged, which are in line with tracks F'. Outside of the open end of the boiler hinged pieces *f* connect the tracks F F'. On the tracks F F' the wheels of a carriage, G, run, which consists of an iron frame provided with one or two middle cross-bars, J, and with end cross-bars, K, raised about three feet above the bottom of the frame and supported by suitable standards.

In the cross-bars J four, or more or less, short shafts, L, parallel with the longitudinal axis of the car, are journaled, which shafts have squared ends.

Between the bars J a worm-wheel, H, is rigidly mounted on each short shaft L, which worm-wheels engage with worms M on a shaft, N, journaled in the frame of the car

above and parallel with the bars J, which shaft projects from the side of the car, and is provided on its end with a cross-piece, O. The cloth is suspended from square, hexagonal, or octagonal rods or bars P, each provided at one end with a projecting pivot, Q, and at the opposite end with a squared socket or recess, R, for receiving the squared ends of the shafts L. The end cross pieces or bars, K, are provided on the upper ends with notches I, for receiving the end pivots, Q. A short shaft, S, is journaled on the side of the boiler, which shaft is provided on the outer end with a crank-handle, T, or other device for turning it, and on its inner end with a fork, V, for receiving the cross-piece O in the end of the shaft N. The shaft S is so arranged that when the car is run into the boiler the cross-piece O will pass into the fork V.

The operation is as follows: The dyed cloth, in hanks, is hung on the rods or bars P, and when the car is filled it is run into the boiler A, the door B is closed, and steam is admitted. The steam acts on the goods and fixes the colors; but in order to fix the colors properly, the steam must act on all parts of the goods, which otherwise become striped, stained, &c. If the rods P, from which the goods are suspended, are turned, all parts of the goods are successively exposed to the action of the steam, and striping, spotting, and staining of the goods are avoided. If the crank-handle T is turned, the shaft N is revolved and revolves the several worm-wheels H, which in turn revolve rods or bars P, on which the goods are hung.

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

In an apparatus for steaming dyed fabrics, the combination, with the boiler or steam-vessel A, of the car G, the cross-bars J K, the shaft N, the worms M, the worm-wheels H, the short shafts L, having squared ends, the rods P, having each a socket, R, in one end and a pivot, Q, on the opposite end, and a shaft, S, pivoted in the side of the boiler A, and provided with a fork, V, on its inner end, substantially as herein shown and described.

EUGENE RAU.

Witnesses:

C. SEDGWICK,
E. M. CLARK.