No. 647,772. Patented Apr. 17, 1900.

E. E. TOWNSEND & E. K. SHELBY.

TOWEL MOISTENING MACHINE FOR BARBERS' USE.

(Application filed Oct. 10, 1899.)

(No Model.) 2 Sheets—Sheet 1.

Fig. 1

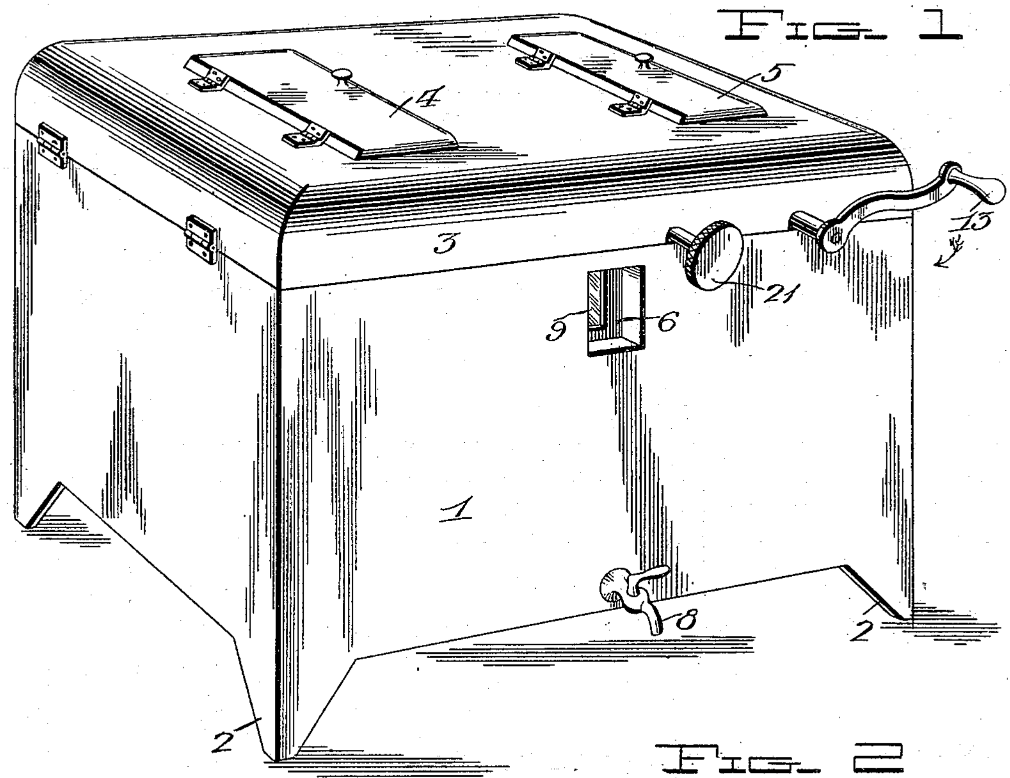
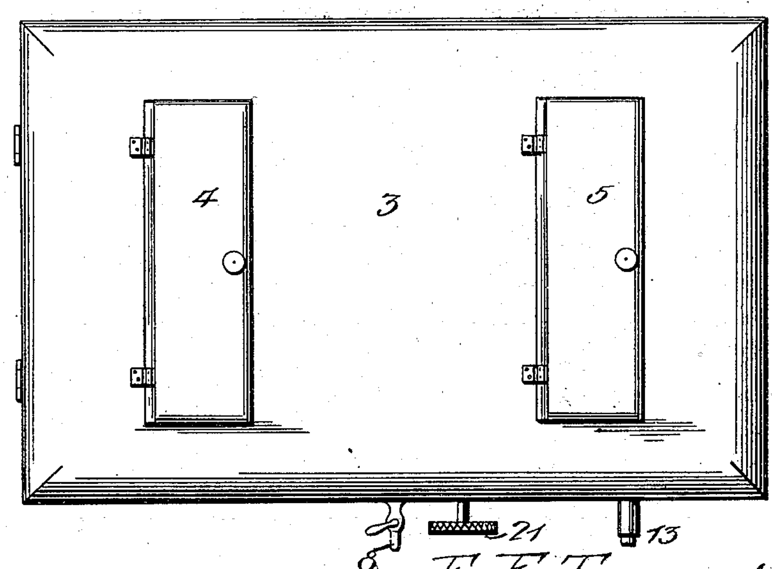


Fig. 2



Witnesses

Inventors E. E. Townsend and E. K. Shelby

by Attorneys

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

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FIG. 3

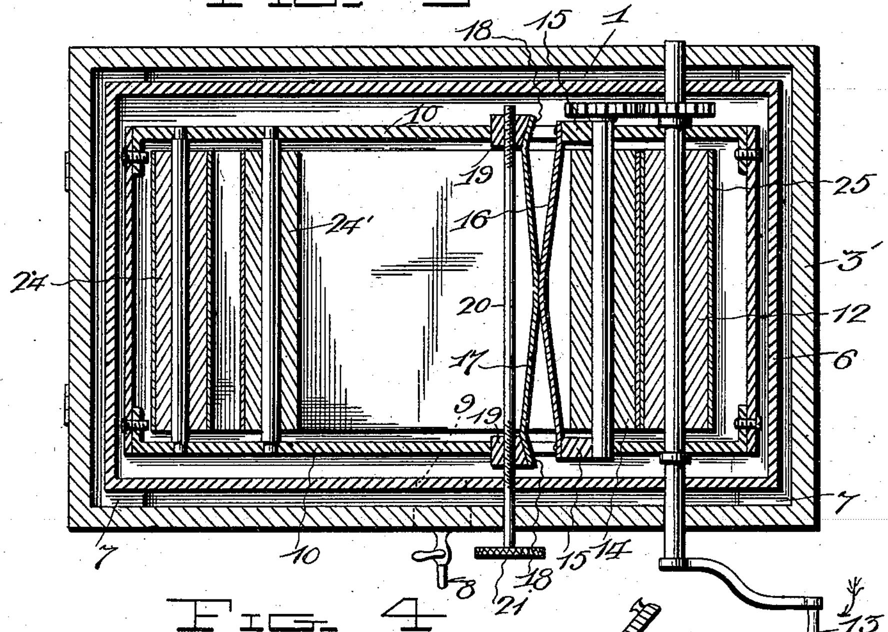
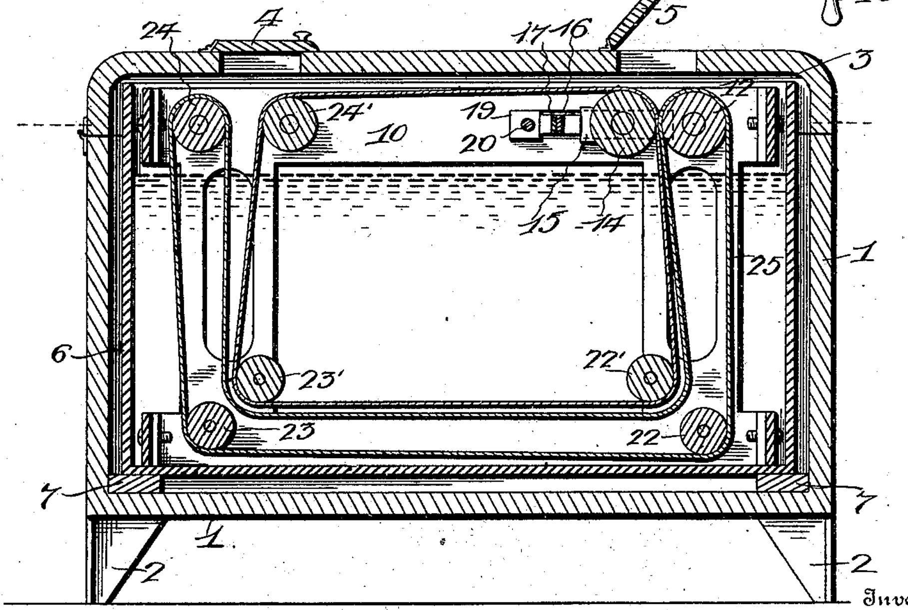


FIG. 4



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UNITED STATES PATENT OFFICE.

ELVIN ELWIN TOWNSEND AND EVAN K. SHELBY, OF WATSONVILLE, CALIFORNIA.

TOWEL-MOISTENING MACHINE FOR BARBERS' USE.

SPECIFICATION forming part of Letters Patent No. 647,772, dated April 17, 1900.

Application filed October 10, 1899. Serial No. 733,157. (No model.)

To all whom it may concern:

Be it known that we, ELVIN ELWIN TOWNSEND and EVAN K. SHELBY, citizens of the United States, residing at Watsonville, in the county of Santa Cruz and State of California, have invented certain new and useful Improvements in Towel-Moistening Machines for Barbers' Use; and we do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Our invention relates to towel-moistening machines for barbers' use; and the object is to provide a simple and convenient device whereby the clean dry towels may be inserted in the machine and withdrawn therefrom in a heated moist condition as wanted and ready for immediate use without further treatment.

To this end the invention consists in the construction, combination, and arrangement of the several elements of the device, as will be hereinafter more fully described, and particularly pointed out in the claim.

In the accompanying drawings the same reference characters indicate the same parts of the invention.

Figure 1 is a perspective view of our improved towel-moistening machine. Fig. 2 is a top plan view. Fig. 3 is a horizontal section on the line of the wringer-rollers. Fig. 4 is a vertical longitudinal section.

1 denotes a casing mounted on legs 2 2 and provided with a removable cover 3, which in turn is provided with hinged doors 4 and 5.

6 denotes a sheet-metal water-tank resting on the transverse cleats 7 7, fixed in the ends of the casing, and it is provided with a faucet 8 and a glass water-gage 9.

10 denotes a rectangular frame which fits within the tank and in which the operative mechanism is mounted.

12 denotes a stationary compression-roller provided with a crank-handle 13 and journaled in the frame, and 14 denotes a movable compression-roller mounted in slots in the frame in the same horizontal plane with the stationary roller and adapted to travel to and from said latter roller, being held against it by the bearing-blocks 15 15, which have a sliding engagement with said grooves and which are connected by the bowed spring 16, to which a reversely-bowed spring 17 is attached and which is formed with flaring ends 18 18, which engage the correspondingly-formed faces of the nuts 19 19, mounted on the outer ends of the right and left hand threaded shaft 20, one end of which is provided with a milled head 21 for conveniently manipulating it and increasing or diminishing the tension of the springs on the movable roller.

22 22', 23 23', and 24 24' denote idler-rollers mounted in the frame, as shown, and 25 denotes an endless belt or apron, and starting at the stationary roller 12 this endless belt or apron extends around the roller 22, thence around the roller 23 and around the roller 24, thence down again and around the roller 23' and passing around the roller 22' to the place of beginning at the stationary compression-roller 12. A second endless belt starts from the movable compression-roller 14, thence around the roller 24' and rollers 23' and 22' back to the place of beginning.

The tank is filled up to the water-level, as indicated by the horizontal dotted line, and the water heated by a gas-jet or lamp, which may be applied to the bottom of the water-tank 6 through any suitable opening in the bottom of the casing 1 to maintain it at the proper temperature.

In operation the device is used as follows: The door 4 is raised. A spread towel suspended from the left hand is passed downwardly between the rollers 24 24'. At the same time the crank-handle is turned with the right hand in the direction of the arrow until the towel has passed between the rollers 23 23' and is held in a horizontal position by the belts between the rollers 23' and 22'. The door 4 is then closed, and when the towel is required for use the door 5 is raised and the crank turned as before, the endless aprons or belts carrying the towel up and out between the compression-rollers, where it may be grasped and removed for use, the compression-rollers removing the surplus water and discharging the towel in the proper condition for immediate use.

Having thus fully described our invention,

what we claim as new and useful, and desire to secure by Letters Patent of the United States, is—

In a towel-moistening machine, the combination with a casing having a removable cover provided with hinged doors 4 and 5; of a sheet-metal water-tank provided with a faucet and a glass water-gage; of the rectangular frame 10 filled within said water-tank; of the stationary roller 12 provided with the crank-handle 13 journaled in said frame 10; the movable compression-roller 14 mounted in slots in said frame 10 in the same plane with said stationary roller; the stationary rollers 12, 22, 23, 24, 22′, 23′ and 24′, and the movable compression-roller 14 journaled in movable bearing-blocks 15, 15; the bowed spring 16 connected at its ends to said bearing-blocks 15, 15; the reversely-bowed spring 17 attached to said bowed spring 16 and provided with flaring ends 18, 18; the flaring-faced nuts 19, 19, secured to said flaring ends 18, 18; and the right and left hand threaded shaft 20 provided with the milled head 21, and engaging the nuts 19, 19 on the ends of the reversely-bowed spring 17; substantially as and for the purpose set forth.

In testimony whereof we have hereunto set our hands in presence of two subscribing witnesses.

ELVIN ELWIN TOWNSEND.
EVAN K. SHELBY.

Witnesses:
H. S. FLETCHER,
W. R. RADCLIFF.