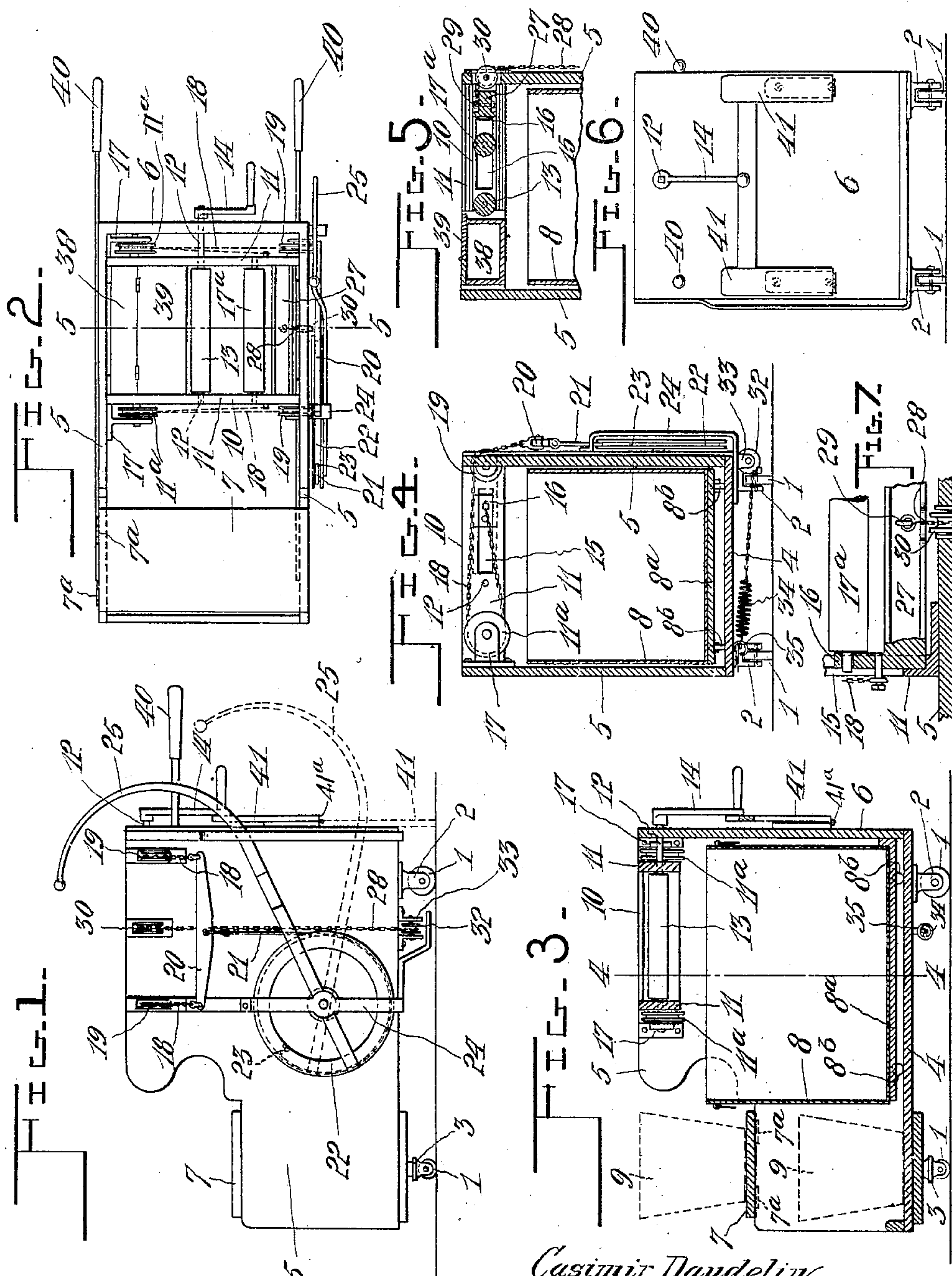


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C. DAUDELIN.  
APPARATUS FOR USE IN CLEANING BUILDINGS.

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Witnesses:  
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# UNITED STATES PATENT OFFICE.

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## APPARATUS FOR USE IN CLEANING BUILDINGS.

No. 832,041.

Specification of Letters Patent.

Patented Oct. 2, 1906.

Application filed April 17, 1905. Serial No. 256,026.

*To all whom it may concern:*

Be it known that I, CASIMIR DAUDELIN, a subject of the King of Great Britain, residing in the city and district of Montreal, in the Province of Quebec, Canada, have invented certain new and useful Improvements in Apparatus for Use in Cleaning Buildings; and I do hereby declare that the following is 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.

This invention relates to new and useful improvements in apparatus adapted for use in cleaning floors of buildings and the like; and it consists in certain features of novelty relating to the construction and operation thereof, all as hereinafter more fully described, and specifically pointed out in the claims.

The object of the invention is to provide a combined truck or receptacle with a mop-wringing device operatively supported by said truck in convenient proximity to a tank, also carried by said truck, which tank is adapted for use in carrying cleansing fluid.

Referring to the accompanying drawings, in which similar numerals of reference indicate corresponding parts in all the views, Figure 1 is a side elevational view of the apparatus. Fig. 2 is a plan view. Fig. 3 is a central longitudinal sectional view. Fig. 4 is a section on line 4 4 of Fig. 3. Fig. 5 is a fragmentary section taken on line 5 5 of Fig. 2. Fig. 6 is a rear end view of the apparatus; and Fig. 7 is a fragmentary sectional view illustrating details of construction hereinafter referred to, this view being partly in plan and partly in section, illustrating details of construction not clearly developed in Fig. 2.

Referring to the parts, 1 1 are supporting wheels or rollers carried in suitable brackets 2 and 3, the brackets 2 being rigidly mounted and the brackets 3 being rotatable for well-understood purposes. Supported by these rollers is a truck comprising a base or platform 4, side walls 5, and rear wall 6, there being a cover-plate or shelf 7 resting upon the forward portion of the side walls.

Resting upon the platform 4 is a tank 8, of large capacity, adapted to carry a considerable quantity of water or other cleaning fluid, and auxiliary buckets 9 may be mounted upon said platform 4 and upon the plate 7, as shown in dotted lines in Fig. 3.

Secured within the upper portion of the receptacle formed by the side walls and end wall is a frame 10, including side bars 11, and rotatably mounted in said side bars 11 is a spindle 12, which carries a roller 13, a crank-handle 14 being connected with said spindle for the purpose of rotating the same as may be required.

As will be noted in Figs. 4 and 5, the side bars 11 are slotted longitudinally at 15, and mounted within said slots 15 are slidable bearings 16, in which bearings is mounted the movable roller 17<sup>a</sup>. In convenient proximity to one end of the side bars 11 brackets 17 are provided, which are connected to said side bars and to the side walls 5, as shown in the plan view, Fig. 2, and in Fig. 4, and grooved sheaves 11<sup>a</sup> are rotatably mounted in said brackets 17. Connected with the slidable bearings 16 and passing over the sheaves 11<sup>a</sup> are chains 18, which pass thence over the sheaves or pulleys 19 and thence are carried downwardly and connected with the yoke 20. Connected with the yoke 20 is a cable 21, which passes under and partly around the grooved wheel 22, being connected with said wheel at 23. The wheel 22 is mounted in a bracket 24, which is connected with one of the side walls 5, and connected with said wheel is a curved arm or lever 25, which extends upwardly, as shown in the side view, Fig. 1, in full lines, where it may readily be grasped by the operator and depressed to the position shown in dotted lines when required.

As will be noted in Fig. 7, the roller 17<sup>a</sup> is mounted in the slidable bearings 16, and said slidable bearings are connected by means of a channeled connecting-bar 27, with which is connected a chain 28, said chain being connected to a loop or eye 29, extending from said bar 27. The chain 28 is carried over a sheave or pulley 30, as shown in Fig. 1, and thence downwardly, passing around the sheave 32, which is carried by the bracket 33 at the lower side of the apparatus. The said chain 28 extends thence transversely of the truck and is connected at its end with the spring 34, which spring is connected with the loop 35.

It will be noted that the tendency of the spring 34 is to draw the roller 17<sup>a</sup> normally away from the relatively fixed roller 13, thus leaving a sufficient space between said rollers for the insertion of a mop or other cleaning implement. In convenient proximity to the



relatively fixed roller 13 there is provided a box or receptacle 38, which box is provided with a cover 39, as shown in Figs. 2 and 5.

In cleaning large buildings—such as custom-houses, warehouses, &c.—where a large area is to be cleaned, the apparatus herewith shown will be found of special value, as by means of this apparatus a large quantity of water or cleansing fluid may be carried in the tank 8 and upon the truck thus provided, which truck may be guided from place to place by means of the handles 40.

Connected with the rear end wall 6 are foldable legs 41, which are hinged at 41<sup>a</sup> and which may be turned down to the position shown in dotted lines in Fig. 1 when the apparatus has been moved to a proper position, which foldable legs serve to steady the apparatus and to support the same, and thus prevent tipping when the lever 25 is thrown to the position indicated by dotted lines in Fig. 1. When said lever 25 is thrown to its lowered position, the wheel 22 is rotated, thus drawing down the yoke 20 and carrying the movable roller 17<sup>a</sup> into nearer proximity to the relatively fixed roller 13, and by means of the crank-handle 14 the roller 13 may be rotated, so that if a mop or other instrument has been inserted between said rollers it may be squeezed to express therefrom the surplus moisture. As soon as the lever 25 is released the spring 34 and chain 28 will draw the yoke 20 upwardly and carry the roller 17<sup>a</sup> away from the roller 13 to release said mop.

While I have shown in the accompanying drawings the preferred form of my invention, it will be understood that I do not limit myself to the precise form shown, for many of the details may be changed in form or position without affecting the operativeness or utility of my invention, and I therefore reserve the right to make all such modifications as are included within the scope of the following claims or of mechanical equivalents to the structures set forth.

It will be observed that the tank 8 is carried on the truck 8<sup>a</sup>, having rollers 8<sup>b</sup>, so that said truck may be drawn forwardly thereon to remove the tank from the truck, in which event the transversely-extending member 7 should be raised on its hinges 7<sup>a</sup> to provide clearance for said tank.

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

1. In an apparatus of the character described, a truck comprising side and end

walls, a frame mounted between said side walls, a box or receptacle carried within said frame, a relatively fixed roller in proximity to said receptacle, slidable bearings mounted in longitudinal slots in said frame, a roller mounted in said slidable bearings, chains connected with said slidable bearings, said chains extending to the opposite side of said frame, a plurality of sheaves about which said chains are passed, a yoke connecting said chains, a cable connected with said yoke, a wheel about which said cable is passed, and means for rotating said wheel to move said slidably-mounted roller.

2. In an apparatus of the character described, a truck having side walls, an end wall, foldable legs connected with said end wall, a transversely-extending plate mounted upon said side walls, a tank carried by said truck, a frame mounted above said tank, a plurality of rollers carried by said frame, slidable bearings in which one of said rollers are mounted, pulleys connected with opposite sides of said frame, chains connected with said slidable bearings and passing over said pulleys, a yoke connecting the opposite ends of said chains, a cable connected with said yoke, a pulley about which said cable is carried, and a lever adapted to rotate said pulley.

3. In an apparatus of the character described, a truck having side walls, an end wall, foldable legs connected with said end wall, a transversely-extending plate mounted upon said side walls, a tank carried by said truck, a frame mounted above said tank, a plurality of rollers carried by said frame, slidable bearings in which one of said rollers is mounted, pulleys connected with opposite sides of said frame, chains connected with said slidable bearings and passing over said pulleys, a yoke connecting the opposite ends of said chains, a cable connected with said yoke, a pulley about which said cable is carried, a lever adapted to rotate said pulley, a spring carried below said tank, and a chain connecting said spring and the connecting-bar of said slidable bearings, whereby said yoke is retracted to its normal position when said lever is released.

In witness whereof I have hereunto set my hand in the presence of two witnesses.

CASIMIR DAUDELIN.

Witnesses:

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T. MYNARD.