

N. B. CHARTIER.
 COMB CLEANING DEVICE.
 APPLICATION FILED JUNE 7, 1920.

1,377,310.

Patented May 10, 1921.
 2 SHEETS—SHEET 1.

Fig. 1.

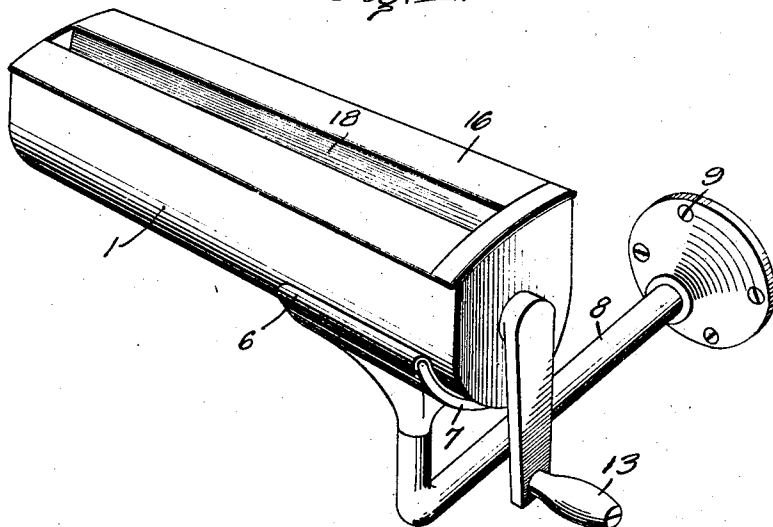


Fig. 2.

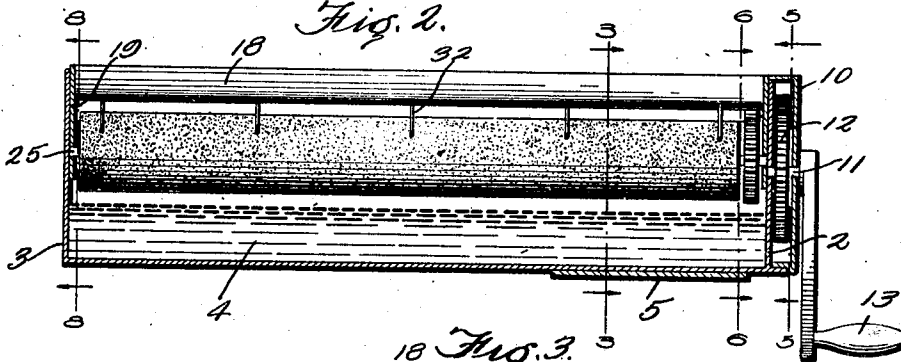
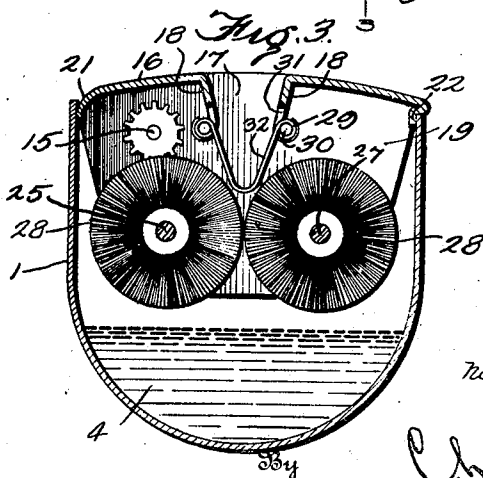


Fig. 3.



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2 SHEETS—SHEET 2.

Fig 4

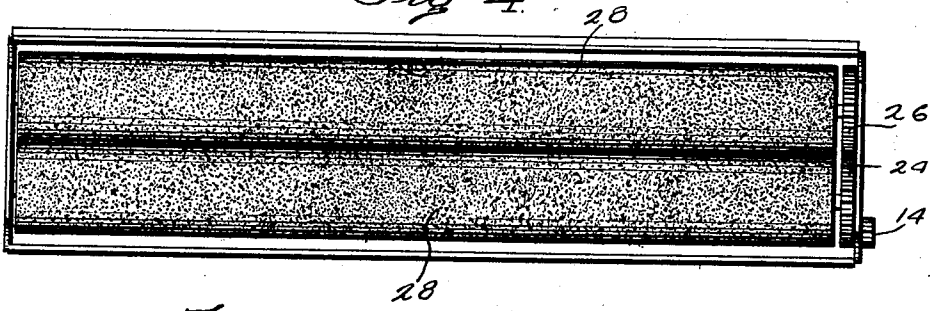


Fig 5

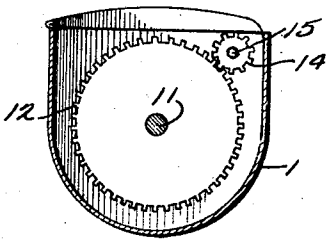


Fig 6

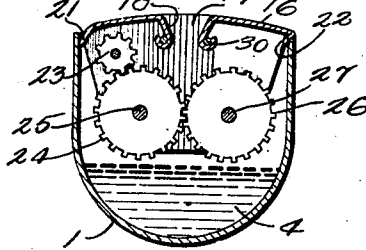


Fig 7

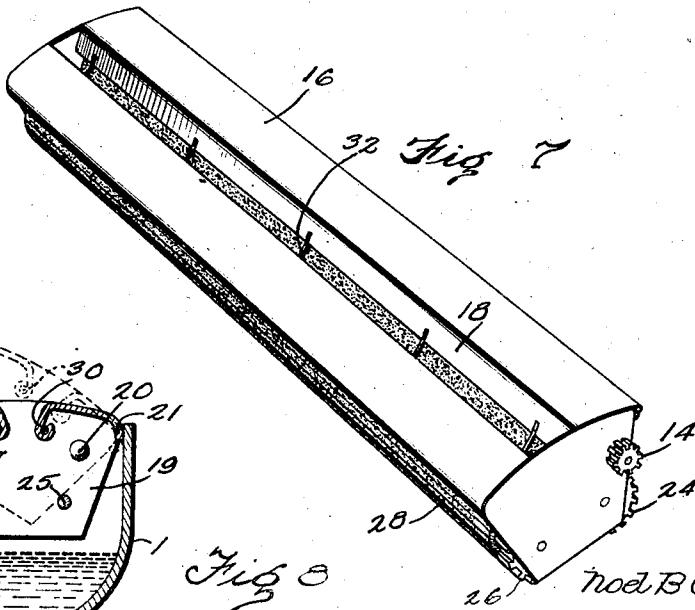
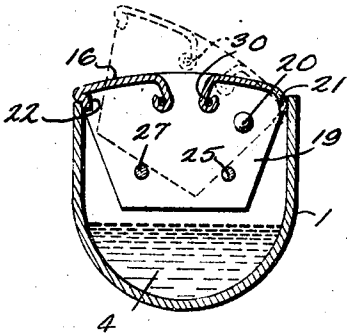


Fig 8



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UNITED STATES PATENT OFFICE.

NOEL B. CHARTIER, OF PROVIDENCE, RHODE ISLAND.

COMB-CLEANING DEVICE.

1,377,310.

Specification of Letters Patent.

Patented May 10, 1921.

Application filed June 7, 1920. Serial No. 387,273.

To all whom it may concern:

Be it known that I, NOEL B. CHARTIER, a citizen of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Comb-Cleaning Devices, of which the following is a specification.

This invention relates to comb cleaners, and it comprises a receptacle or trough, adapted to hold a cleaning fluid, a cover for said receptacle, said cover being provided with an opening for the insertion and removal of a comb to be cleaned, means carried by the cover for retaining the comb in position to be cleaned, a pair of rotating brushes carried by the cover, and means for rotating said brushes; all as more fully hereinafter set forth and as claimed.

The present invention is an improvement on the comb cleaning apparatus described in Letters Patent No. 1,244,469, granted to me under date of October 30, 1917. In the present construction, I have devised means whereby the cleaning brushes may be readily removed from the receptacle to permit cleaning of the receptacle, or changing of the cleansing fluid. The present construction also includes a cover, whereby dirt and dust from the air are prevented from getting into the cleaner.

In the accompanying drawings, I have shown one embodiment of the invention. Referring to the drawings:

Figure 1 is a perspective view of the comb cleaner,

Fig. 2 is a central vertical sectional view,

Fig. 3 is a transverse vertical sectional view on line 3—3 of Fig. 2,

Fig. 4 is a bottom plan view of the cover and cleaning brushes,

Fig. 5 is a transverse sectional view on line 5—5 of Fig. 2,

Fig. 6 is a similar view on line 6—6 of Fig. 2,

Fig. 7 is a perspective view of the brushes and cover removed, and,

Fig. 8 is a transverse sectional view on line 8—8 of Fig. 2, showing the cover supporting means.

Referring to the drawings, the numeral 1 designates a receptacle having end walls 2 and 3. As shown, the receptacle is provided with a rounded bottom and is adapted to contain any suitable cleansing fluid 4, such as water or soap and water. Means are pro-

vided for supporting the receptacle, consisting of a plate 5 secured to the bottom and provided with flanges 6 at each side. A similar plate 7 is adapted to be arranged beneath the plate 5 and be received in the flanges 6. The latter plate is mounted on a bracket 8 which may be secured to any suitable support by means of fastening elements, such as screws 9. The drive means are arranged at one end of the device and are placed within a dust excluding cover 10. As shown, a centrally arranged stub shaft 11 is journaled in the end wall 2 and the cover 10. A gear 12 is arranged on this shaft and the end of the shaft is provided with operating means, such as a hand crank 13. The gear 12 is adapted to mesh with a pinion 14, arranged on a stub shaft 15, which projects through the end wall 2 into the receptacle.

The cover of the receptacle consists of a plate of suitable material 16, having a central opening 17, the material of the plate being bent downwardly to form two guide flanges 18 on each side of the opening. The cover is provided with downwardly projecting flanges or walls 19 at each end, the walls 19 receiving a stub shaft 15, which acts as a hinge or pivot for the cover. The other wall is hingedly supported on a rivet 20 (see Fig. 8), which is secured to the end wall 3. The side of the cover adjacent the pivot or hinge is rounded, as at 21, whereas the other side of the cover is provided with a depending flange 22, forming a lip, whereby the cover is held in position.

The pinion 23 is arranged on the stub shaft 15 within the receptacle and is adapted to mesh with a gear 24, mounted on the shaft 25. The gear 24 is in mesh with another gear 26 mounted on a shaft 27. These two shafts are journaled in bearings in the end walls of the cover and carry brushes 28, which are revolved by turning the crank 13. It will be apparent that the brushes form a portion of the cover and may be removed from the receptacle by turning the cover on its hinges to the dotted line position shown in Fig. 8 of the drawings.

Means are provided for retaining the comb in the opening 17 and in engagement with the brushes. As shown, the guide flanges are provided with curled ends 29 which are adapted to receive longitudinal rods 30. Slots 31 are arranged at intervals in the flanges 18 and transverse supporting

members 32 are disposed in these slots and secured to the longitudinal rods. As shown, the transverse supporting members consist of substantially V-shaped pieces of wire 5 which project downwardly to a point near the surface of the brushes. When a comb is to be cleaned, it is inserted in the opening 17, the supporting members 32 entering the spaces between two teeth and supporting 10 the comb in engagement with the brushes. The brushes, passing through the liquid in the bottom of the receptacle, come in contact with the teeth of the comb and thoroughly wash and cleanse them.

15 The construction whereby the cover and its associated elements may be swung to a position out of the receptacle to permit free access to the bottom of the receptacle, is highly advantageous as it permits cleaning 20 of the tank or receptacle and ready change of water or other cleansing fluid after use.

It is to be understood that the form of my invention herewith shown and described is to be taken as a preferred example of the 25 same, and that various changes in the shape, size, and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the sub-joined claims.

30 Having thus described my invention, I claim:

1. In a comb cleaner comprising a receptacle adapted to hold the cleansing fluid, a hinged cover arranged on said receptacle, a 35 pair of rotating brushes carried by said cover and arranged within the receptacle, said cover having an opening therein for the insertion of a comb, and means for retaining the comb in position to be cleaned, 40 said retaining means being disposed within the receptacle when the cover is in position.

2. In a comb cleaner comprising a recep-

tacle adapted to hold the cleansing fluid, a hinged cover arranged on said receptacle, a pair of rotating brushes carried by said 45 cover and arranged within the receptacle, said cover having an opening therein for the insertion of a comb, and a plurality of transverse wires secured to the cover and arranged near said opening, said wires being 50 adapted to retain the comb in position within the receptacle when the cover is in position.

3. A comb cleaner comprising a receptacle adapted to hold the cleansing fluid, driv- 55 ing means comprising a gear arranged on one end of said receptacle, a shaft extending longitudinally of said receptacle, a gear on said shaft meshing with said drive gear, a cover for said receptacle, said cover being 60 arranged to swing on said shaft as a hinge, rotary brushes carried by said cover, and means for driving said brushes from said shaft.

4. A comb cleaner comprising a receptacle adapted to hold the cleansing fluid, driv- 65 ing means comprising a gear arranged on one end of said receptacle, a shaft extending longitudinally of said receptacle, a gear on said shaft meshing with said drive gear, 70 a cover for said receptacle, said cover being arranged to swing on said shaft as a hinge, rotary brushes carried by said cover, and means for driving said brushes from said shaft, said cover being provided with a 75 comb receiving opening, and means for retaining a comb in said opening and in contact with said brushes.

In testimony whereof I affix my signature in presence of two witnesses.

NOEL B. CHARTIER.

Witnesses:

MICHAEL J. BANIGAN,
JAMES M. DEGNAN.