F. L. MATHIEU.

MASSAGE BRUSH.

APPLICATION FILED AUG. 9, 1920.

1,394,206.

Patented Oct. 18, 1921.

4 SHEETS—SHEET 1.

Fig. 1.

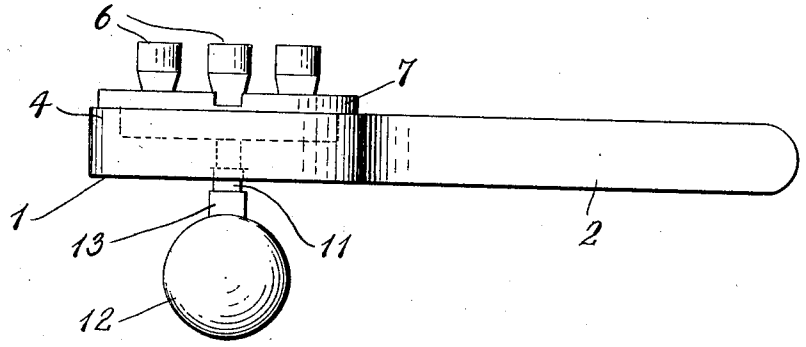


Fig. 2.

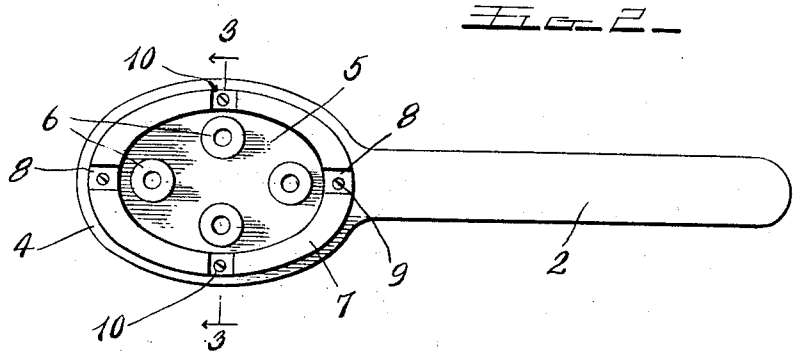


Fig. 3.

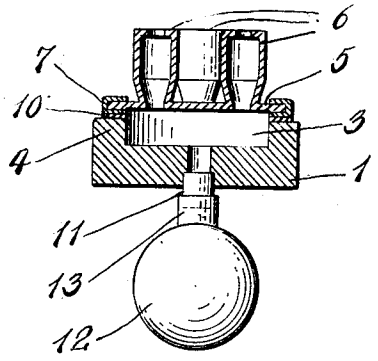
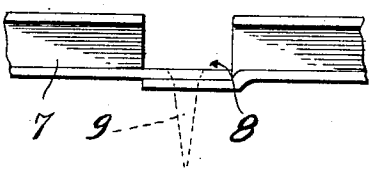


Fig. 4.



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4 SHEETS—SHEET 2.

Fig. 5.

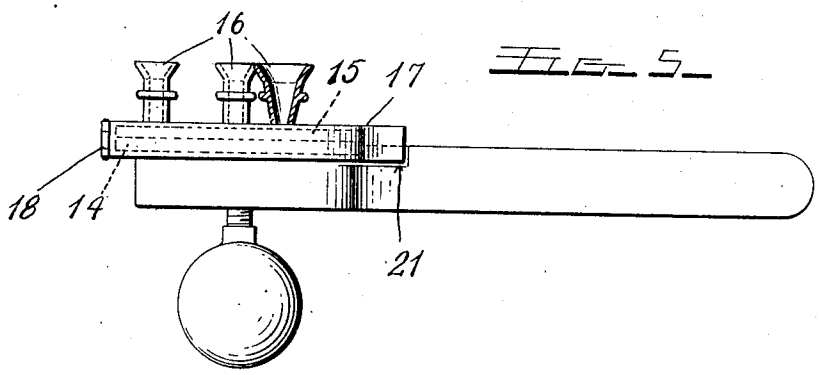


Fig. 6.

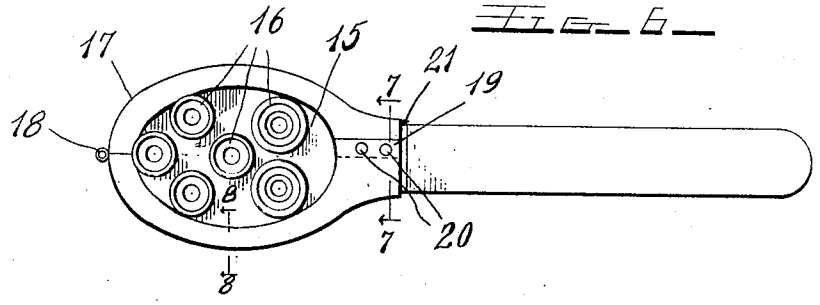


Fig. 7.

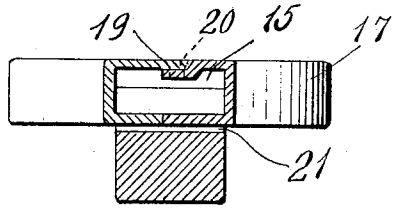
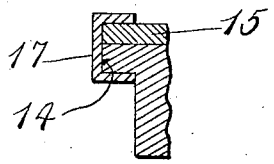


Fig. 8.



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4 SHEETS—SHEET 3.

Fig. 9.

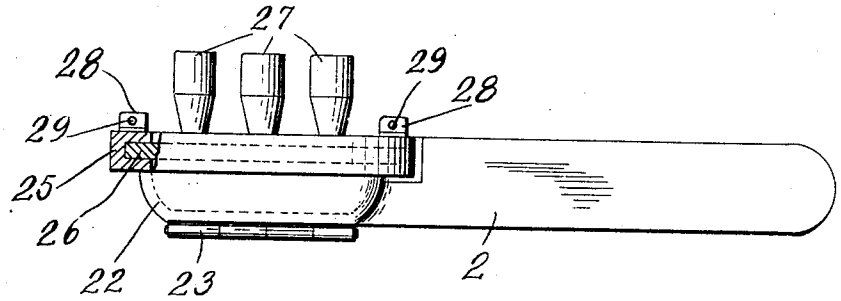


Fig. 10.

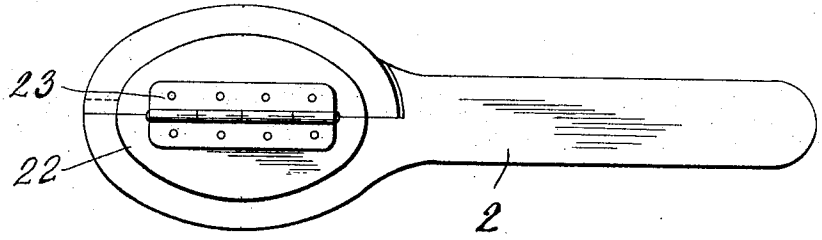


Fig. 11.

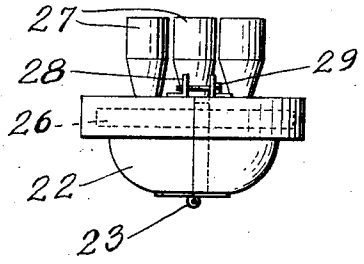
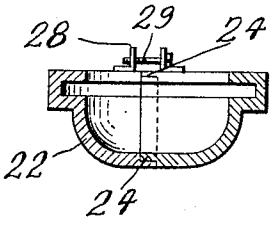


Fig. 12.



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4 SHEETS—SHEET 4.

Fig. 13.

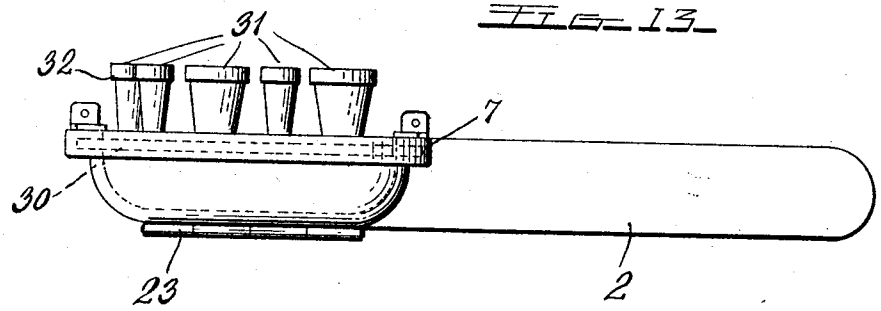


Fig. 14.

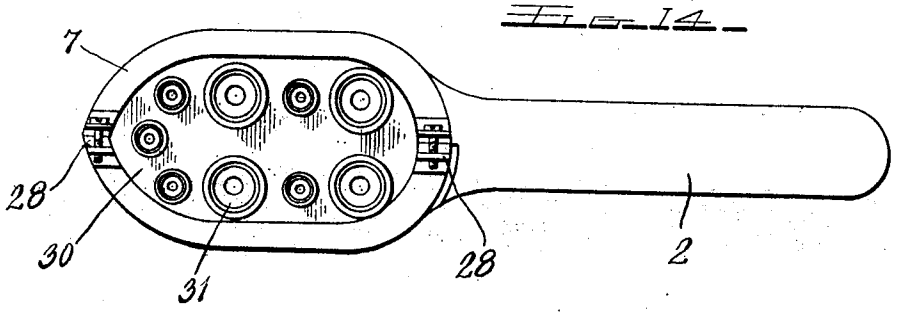


Fig. 15.

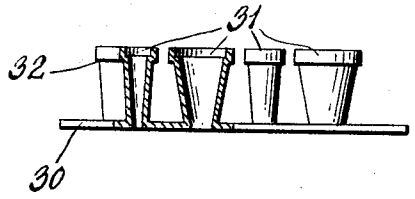
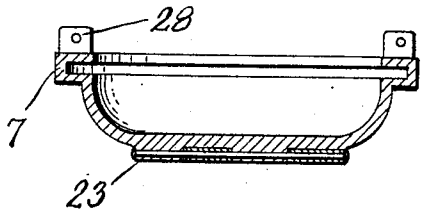


Fig. 16.



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UNITED STATES PATENT OFFICE.

FRED L. MATHIEU, OF SOUTH BEND, INDIANA.

MASSAGE-BRUSH.

1,394,206. Specification of Letters Patent. Patented Oct. 18, 1921.

Application filed August 9, 1920. Serial No. 402,457.

To all whom it may concern:

Be it known that I, FRED LOUIS MATHIEU, a citizen of the United States, residing at South Bend, in the county of St. Joseph and State of Indiana, have invented certain new and useful Improvements in Massage-Brushes, of which the following is a specification.

This invention relates to massage brushes, and more particularly to that type of brush which will be hand operated, and will operate on the suction principle.

An object of the invention is to provide a suitable massage brush which may be made from wood, glass or hard rubber, or any other suitable material.

Another object is to provide a suitable massage brush which will operate on the suction principle, due to the fact that it has a plurality of suction cups, which engage or contact with the skin, when operated.

A further object is to provide a massage brush, which is adapted to receive one or more different types of suction cups, and which is made so that they may be made integral with a base or plate, and detachable from the handle or head portion of said brush.

Other objects will appear as the description proceeds.

In the accompanying drawings which constitute a part of this specification,

Figure 1 is a side elevation of the brush made of wood, illustrating two types of appliances or suction cups;

Fig. 2 is a plan view of the same;

Fig. 3 is a section taken on the line 3—3 of Fig. 2;

Fig. 4 is a detail view of a joint in the plate or base holding frame;

Fig. 5 is a side elevation of the brush constructed from glass;

Fig. 6 is a plan view of the brush constructed from glass;

Fig. 7 is a section view taken on the line 7—7 of Fig. 6;

Fig. 8 is a section view taken on the line 8—8 of Fig. 6;

Fig. 9 is a side elevation partly in section of the brush constructed from hard rubber;

Fig. 10 is a bottom plan view of Fig. 9;

Fig. 11 is an end elevation of Fig. 9;

Fig. 12 is a vertical section showing the shape and structure of the plate or base holding frame;

Fig. 13 is a side elevation of the brush constructed from hard rubber, but with a different type of frame;

Fig. 14 is a plan view of Fig. 13;

Fig. 15 is a side elevation partly in section of the vacuum cups and plate or base; and

Fig. 16 is a vertical longitudinal section of the plate or base holding frame.

Like characters of reference are used throughout the several views to designate corresponding parts.

The brush head 1 and handle 2 may be constructed of wood, glass or hard rubber or any other suitable material. The head portion 1 is hollowed out as at 3, and is provided with a circumferential flange 4, upon which the base or plate 5 is adapted to seat. The plate 5 carries a plurality of hollow suction cups 6, illustrated in Figs. 1, 2 and 3, said cups being of slightly smaller diameter at their bottoms than at their tops, and are formed integral with said plate.

A channeled frame 7 is provided in two sections, and has its end joints overlapping as at 8, and are adapted to be held in position on the flange 4 of the brush head 1, by means of the screws 9, or any other suitable means. The frame is cut away at opposite sides as at 10, to provide room for the screws 9 to be positioned.

An externally threaded nipple 11 is positioned in the back of the head member 1, and is adapted to receive a rubber ball 12, said ball having an internally threaded collar 13 for engagement with the nipple 11.

In the glass brush illustrated in Figs. 5, 6, 7 and 8, the head member 1 is provided with a flange 14, on which is seated the plate 15, which carries the cups 16. These cups 16 are formed integral with the plate 15, and are somewhat bell-shaped, and are provided with an integrally formed ring midway of their length for strengthening purposes.

A channeled member 17 is provided with a hinge 18, and is adapted to engage and fit around the flange 14 and plate 15, and has its end portions overlapped as at 19, and locked in position by means of the screws 20. As shown, the handle 2, is slightly cut away at 21 to receive the channeled member or frame 17.

The hard rubber brush illustrated in the Figs. 9, 10, 11 and 12, is provided with a shell 22, which is hinged at 23, and has its edges overlapping as at 24. This shell entirely surrounds the head member 1, and

has an integrally formed channel section 25 at its upper portion which is adapted to receive the plate 26, upon which the vacuum cups 27 are integrally formed. Ears or lugs 28 are formed at each end of said shell, and are adapted to receive the locking bolts or screws 29, for holding the different parts in operative position.

The hard rubber brush illustrated in the Figs. 13, 14, 15 and 16 is made somewhat similar to the wood brush, and has practically the same channel frame, for receiving the plate 30. It will be noted that the vacuum cups 31 here are made somewhat cone or flower pot shape, and are provided with shoulders 32, where they touch the skin. The same fastening means is used here, as in the wood brush.

It will be further noted that some of the brushes are made oval, some acorn shaped, but I do not limit myself to the exact shape or design.

A very decided advantage over any other brush yet patented is that the plate with the suction cups may be readily removed from the head, for cleaning, and the use of different types of cups, which are interchangeable, does away with the necessity of having a different brush for each type of cup.

It will be understood that many minor changes in detail of construction may be resorted to without departure from the spirit of the invention.

Having thus described my invention what I claim as new and desire to secure by Letters Patent of the United States is:—

1. A massage brush comprising a hollowed head portion, a plate, a plurality of vacuum cups formed integral with said plate, a divided channel frame detachably secured to said head member, said frame being adapted to receive and house said plate, substantially as described.

2. A massage brush comprising a hollow head member, a plate carrying a plurality of vacuum cups detachably secured to one side of said head member, and a resilient vacuum ball detachably secured to the opposite side of said head member, substantially as described.

3. A massage brush comprising a head member, a flange extending radially from said head member and completely surrounding the same, a plate carrying a plurality of vacuum cups adapted to seat on said radial flange, a hinged channel frame adapted to engage and house said flange and plate, and locking means at the free ends of said channel frame.

4. A massage brush comprising a head member, a radially extending flange around the periphery of said member, a plate, a plurality of vacuum cups formed integrally with said plate, reinforcing means on said cups, a hinged channel frame adapted to receive and house said plate and flange, and locking means at the free ends of said frame.

5. A massage brush comprising a head member made of any suitable material, a hinged shell member adapted to receive said head member, a channel formed around the periphery of said shell and formed integral therewith, a plate having a plurality of vacuum cups thereon, said plate being adapted to seat in said channel, ears or lugs formed at opposite ends of said shell, and means for locking the shell in closed position about said head member, substantially as described.

6. A massage brush comprising a head member, a plate seating on said member, said plate having a plurality of vacuum cups, a divided shell for completely housing said head member and plate, and locking means for holding the same in operative position.

7. A massage brush comprising a hollowed head portion, a plate, a plurality of vacuum cups on said plate, a frame secured to said head member, said frame being adapted to receive said plate, substantially as described.

8. A massage brush comprising a hollow head member, a plate carrying a plurality of vacuum cups secured to one side of said head member, and a resilient vacuum ball secured to the opposite side of said head member, substantially as described.

In testimony whereof I affix my signature.

FRED L. MATHIEU.