

Dec. 22, 1936.

J. FLAUM

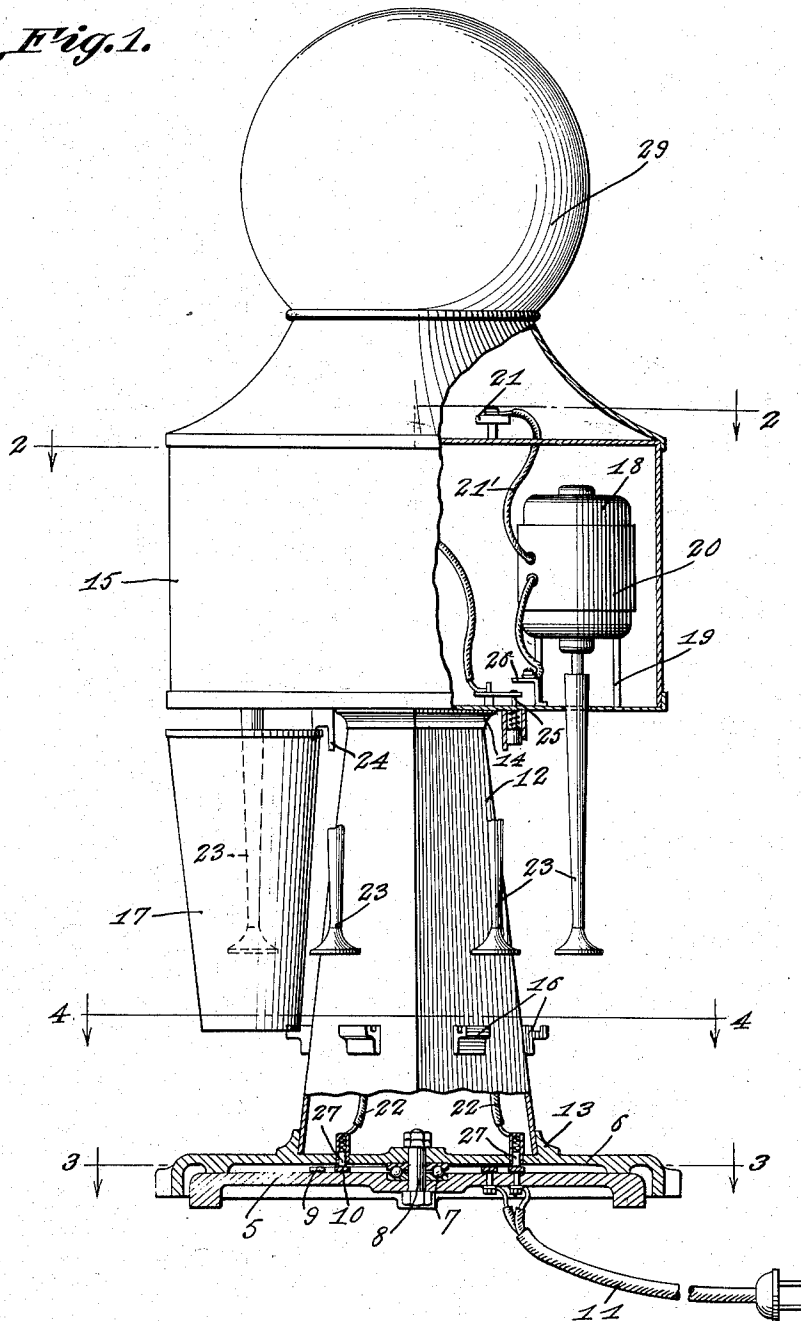
2,065,440

ELECTRICAL MIXER

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2 Sheets-Sheet 1

Fig. 1.



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Fig. 2.

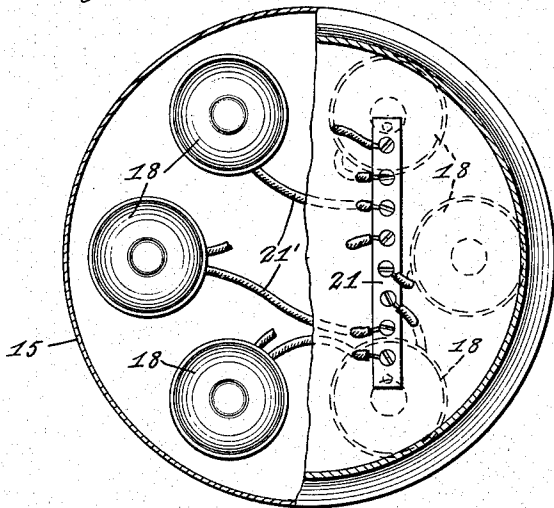


Fig. 3.

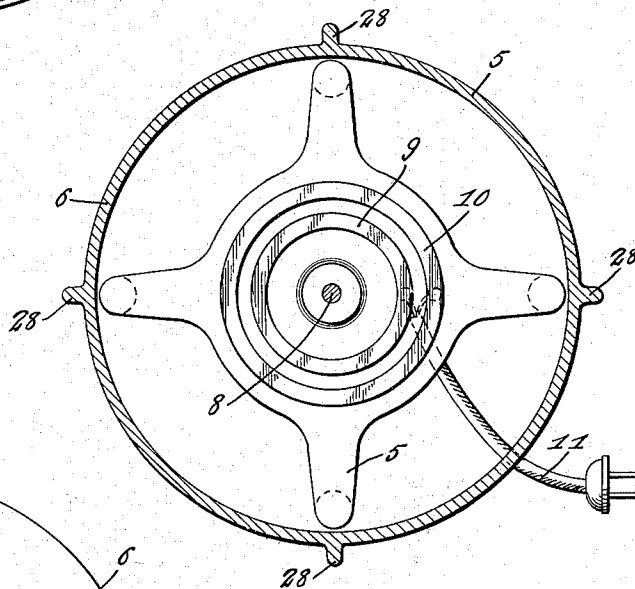
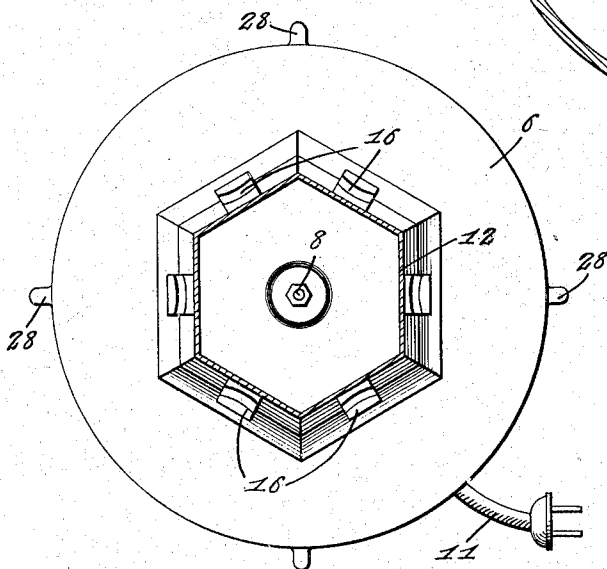


Fig. 4.



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UNITED STATES PATENT OFFICE

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ELECTRICAL MIXER

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Application December 9, 1935, Serial No. 53,660

2 Claims. (Cl. 259—104)

The present invention relates to electric mixers and more particularly to multiple revolving mixers.

5 The primary object of the invention is to provide a unitary construction capable of mixing a plurality of drinks simultaneously and independently.

10 A further object of the invention is to provide a multiple revolving mixer wherein a multiplicity of independently operated motors are supported within a casing and having the mixing elements depending from said casing.

15 A still further object of the invention is to form a rotary support for a hollow casing from which are supported a plurality of independently operated motors, the rotary support being provided with means for supplying current to the various motors.

20 The invention will be fully and comprehensively understood from a consideration of the following detailed description when read in connection with the accompanying drawings which form part of the application.

In the drawings:

25 Fig. 1 is a front elevational view of the mixer having certain parts broken away to illustrate specific details.

Fig. 2 is a transverse sectional view taken on line 2—2 of Fig. 1.

30 Fig. 3 is a transverse sectional view taken on line 3—3 of Fig. 1; and

Fig. 4 is a transverse sectional view taken on line 4—4 of Fig. 1.

35 Referring to the drawings, the numeral 5 indicates one part of the base for supporting the mixer and the numeral 6, the other part of the base which is rotatably mounted on said base 5 thru the medium of ball bearings or the like 7. Any fastening means, such as the nut and bolt 8, 40 may be used for securing the two parts together.

Carried by the base member 5 are a pair of circular contact rings 9 and 10 which are suitably insulated from the base member and connected to a wall plug thru the medium of the connecting means 11. Current is received thru the means 45 11 and carried to the contact rings 9 and 10 and thence to the motors, to be later described.

50 A hollow tubing 12, preferably hexagonal shaped, is supported by the molding 13 which forms an integral part of the base member 6. The tubing 12 is frictionally held within the molding or flange 13 at its lower end and likewise to the flange 14 at its upper end, which forms a part of the motor casing 15. This arrangement provides a unitary construction of the casing 15, 55

tubular member 12 and base member 6, respectively, so that the entire assembly will rotate on the base member 5. A plurality of supporting brackets 16 are secured to the tubular member 12 for supporting the mixing cups 17.

5 The means for supporting a plurality of motors in a closed compartment, comprises the casing 15, above referred to. The motors 18, of which there are six illustrated in Fig. 2 of the drawings, are supported in any desired manner, as, 10 for example, the bracket 19 and supporting clip 20. Current is supplied to the motors from the switch plate 21 having direct contact with the motors thru the wiring 21' and the contact plates 9 and 10 thru the wiring 22, it being understood 15 that conducting lines extend from the circular contact plate 10 to each of the motors and likewise to the switch plate 21, completing the circuit.

Depending from each motor 18 and thru the casing 15 is the rotary mixing element 23. Each 20 motor and its mixing element 23 operate independently when the member 24 is contacted by the mixing cup 17. An electrical switch is connected to each motor, each switch being of the plunger type and comprising a vertically movable arm 25 for effecting contact with the contact 25 element 26 when engaged by the upper end of the mixing cup 17. The arrangement of the cup with respect to the switch element 24 is illustrated in Fig. 1 of the drawings.

30 From the above description it will be noted that the entire construction may be rotated on the base member 5 so as to bring into use either or all of the mixing elements and their respective motors. The spring pressed contacts 27 are normally in contact with the contact ring 10 during the rotation of the mixer. A suitable handle means 28 may be employed for rotating the assembly.

40 If desired, the globe 29 may support and retain a lighting fixture for illuminating and advertising purposes, current being supplied from the switch element 21.

45 It is to be understood that this improvement is capable of extended application and is not confined to the exact showing of the drawings nor to the precise construction described and, therefore, such changes and modifications may be made therein as do not affect the spirit of the invention nor exceed the scope thereof as expressed in the appended claims.

What is claimed as new is:

1 A drink mixer comprising a base, said base being formed of two parts one rotatably mounted on the other, a flange extending from and inte- 55

5 gral with said base, a hollow supporting column mounted within said flange, a casing secured to said column, a plurality of electric mixing motors supported in said casing, circular contact rings carried by said base, and means extending through said column for connecting said rings with said motors for operating the same upon contact of a mixing cup with a switch.

10 2. A drink mixer comprising a base, said base being formed of two parts one rotatably mounted on the other, means for supporting a hollow col-

umn upon said base, a casing secured to said column, a plurality of electric mixing motors supported in said casing, means for supporting mixing cups adjacent said motors, circular contact rings carried by one of said base parts and having engagement with connectors carried by the other base part and extending through said column for connecting said rings with said motors for operating the same upon contact of a mixing cup with a switch.

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