March 14, 1961 S. L. McNAIR 2,974,664

ROLLER VIBRATING DEVICE

Filed Aug. 7, 1957

Fig. 1.

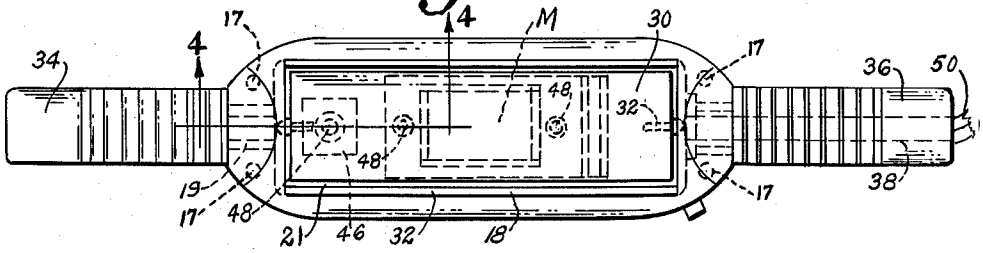


Fig. 2.

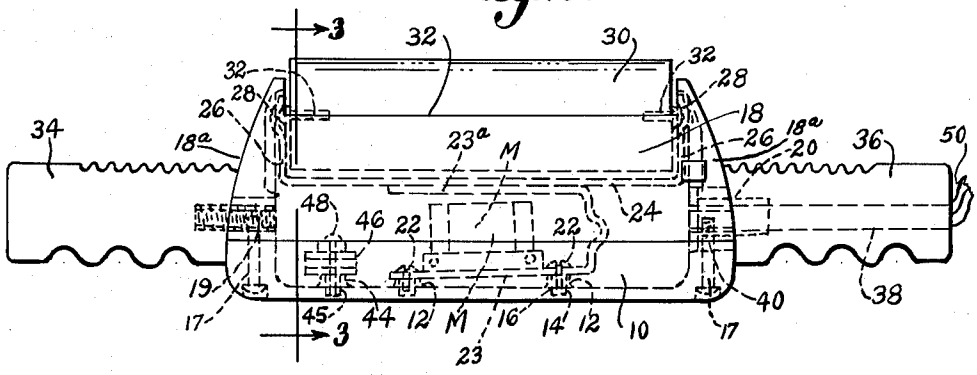


Fig. 3.

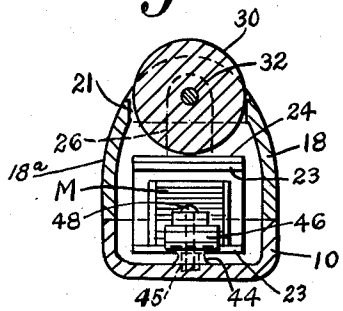


Fig. 4.

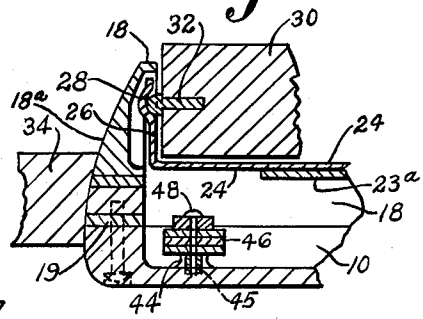
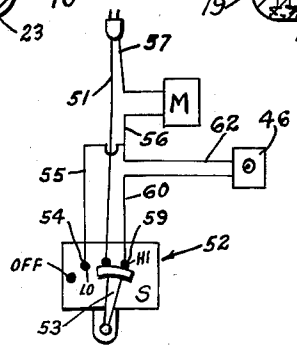


Fig. 5.



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ROLLER VIBRATING DEVICE

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3 Claims. (Cl. 128—57)

This invention relates to a roller vibrating device, particularly for use in massaging different parts of the body.

One object of my invention is to provide a roller vibrating device so constructed that its parts can be manufactured and assembled at a relatively low cost.

Another object is to provide a support or mounting for a roller member so constructed that it can be directly attached to a clapper so that the maximum vibration can be transmitted to the roller member.

A further object is to construct said device that it can provide unusually effective vibrations considering its relatively low cost.

The foregoing and other objects which will appear as the nature of the invention is better understood, may be accomplished by a construction, combination and operative arrangement of parts such as is disclosed by the drawing. The nature of the invention is such as to render it susceptible to various changes and modifications, and therefore, I am not to be limited to the construction disclosed by the drawing, nor to the particular parts described in the specification; but am entitled to all such changes therefrom as fall within the scope of my claims.

In the drawing:

Fig. 1 is a top plan view of my roller vibrating device.

Fig. 2 is a side elevational view thereof.

Fig. 3 is a sectional view taken on the line 3—3 of Fig. 2.

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

Fig. 5 is a wiring diagram showing the electrical circuit used in my device.

As illustrated, my roller massaging device has a main support shown as a U-shaped base **10**, the bottom of which has bosses **12** which receive brass inserts **14** in which are screw-threaded holes **16**. A cover **18** is held to said base **10** by screws **17**, and said cover has holes in opposite sides **18***a* to fixedly receive left and right shafts **19** and **20** respectively upon which are mounted handles **34** and **36** respectively which are later described. Said cover **18** has a large opening **21** at the top, later referred to.

Attached to said base **10** by screws **22** is a well-known electro-magnetic motor M to which is attached a leg **23** of a vibrant armature shown as a U-shaped clapper, the other leg **23***a* of which is spaced from said motor, and attached, as by welding, to the intermediate or connecting portion **24** of a mounting which has two sides **26** at opposite ends of said connecting portion **24**. These sides **26** extend at a right angle to said connecting portion **24**, each having a recess or dimple **28** therein to rotatably receive supporting pins or pintles **32** which fixedly extend into the two opposite ends to form part of a roller member **30**. This roller may be made of wood, plastic or the like, and it rotates freely with its said pintles **32**.

For convenience, a left handle **34** is provided which is mounted on said left shaft **19**, or the handle and shaft may be integral. Also a right handle **36** is mounted

on said shaft **20**, having an elongate hole **38** therethrough. A bushing **40** it set in said cover **18** in communication with said opening **38**.

Said base **10** has another boss **44** which receives a screw-threaded insert **45** in which a selenium rectifier **46** is mounted by a screw **48** that extends into said insert **45** and screw-threadedly connects therewith. This rectifier **46** may be included in the electrical circuit, when desired, to intensify the vibrations.

A cord **50**, enclosing electric wires, extends through said handle hole **38** and bushing **40**, being adapted to connect with a source of electrical supply not shown.

A wiring diagram is shown in said Fig. 5. Electrical current passing through a wire **51** continues to a switch **52**, having a contact arm **53**. When the latter contacts said "Lo" contact member **54**, an electrical circuit is completed by wires **55** and **56** through said motor M, and through wire **57** as shown, to thereby operate the motor and vibrate said clapper. When said contact arm **53** contacts the "Hi" contact member **59**, said rectifier **46** is included in the circuit by means of wire **60** extending to it from said contact member **59**. Another wire **62** extends from the rectifier through said wire **56** to said motor M.

When said motor M is operated, said clapper **23** vibrates said roller **30** through said mounting. Since said pintles **32** are rotatably mounted in said dimples **40** said roller, being fixed to said pintles, may be manually rotated when desired by rolling contact with any part of the body.

What I claim is:

1. A roller vibrating device comprising a base, a cover connected to said base embodying two sides, and having an opening therein, said sides having two handles connected to, and extending laterally beyond, said two sides, a motor supported by said base, a vibrant armature connected to said motor, a mounting embodying an intermediate portion attached to said armature and ermbodying two sides directly opposite said cover sides, and a roller mounted on said mounting sides and extending into said opening.

2. A roller vibrating device comprising a base, an outer cover connected to said base embodying two sides and having an opening therein, a motor supported by said base, a vibrant armature connected to, and a portion of which is spaced from, said motor, a U-shaped mounting embodying an intermediate portion attached to said armature spaced portion and embodying two sides directly opposite said cover sides, supporting means mounted in said mounting sides, and a roller rotatably mounted on said supporting means and extending into said opening.

3. A roller vibrating device comprising a base, a cover connected to said base embodying two sides and having an opening therein, a motor supported by said base, a vibrant armature connected to, and a portion of which is spaced from, said motor, a U-shaped mounting attached to said armature spaced portion and embodying two sides directly opposite said cover sides, supporting means mounted in said mounting sides, a roller rotatably mounted on said supporting means and extending into said opening, and two handles connected to and extending laterally beyond said two cover sides and extending lower than said roller and laterally opposite said motor.

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