

May 5, 1925.

N. A. FRYDENLUND

1,536,203

PAINT MIXER

Filed Jan. 14, 1924

Fig. 1.

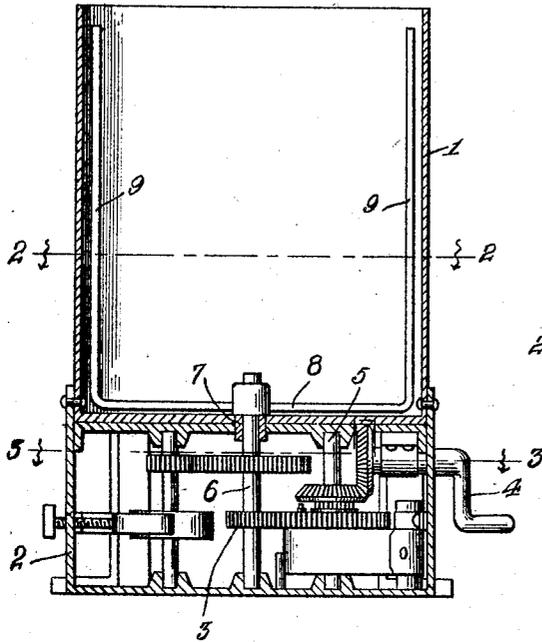


Fig. 2.

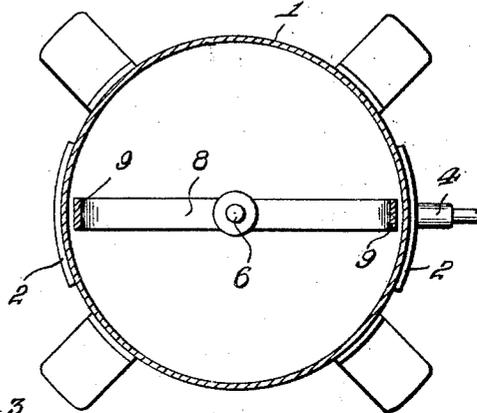


Fig. 3.

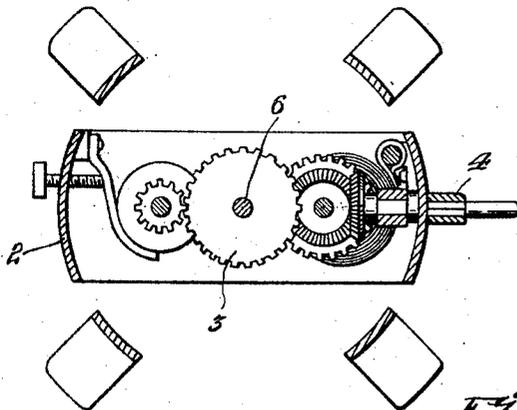


Fig. 4.

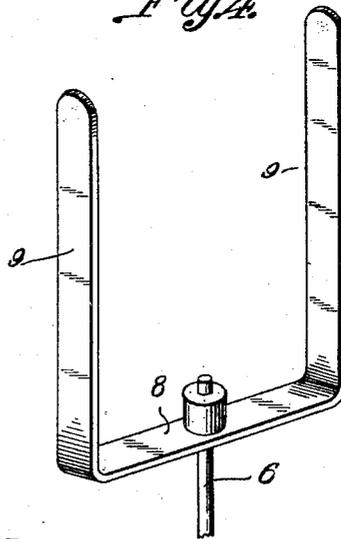


Fig. 5.



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WITNESS:

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NIEMAN A. FRYDENLUND, OF SUN PRAIRIE, WISCONSIN.

PAINT MIXER.

Application filed January 14, 1924. Serial No. 686,211.

To all whom it may concern:

Be it known that I, NIEMAN A. FRYDENLUND, a citizen of the United States, residing at Sun Prairie, in the county of Dane and State of Wisconsin, have invented new and useful Improvements in Paint Mixers, of which the following is a specification.

As is well-known to both amateur and professional house painters, the mixing of the pigments and oils is both laborious and requires a great amount of time. It is, therefore, the object of this invention to produce a mechanical means for thoroughly and effectively mixing paint.

With the above broadly stated object in view and others which will appear as the nature of the invention is better understood, reference is to be had to the drawings which accompany and which form part of this application.

In the drawings:—

Figure 1 is an approximately central vertical sectional view through a paint mixing apparatus in accordance with this invention.

Figure 2 is a horizontal sectional view on the line 2—2 of Figure 1.

Figure 3 is a similar sectional view on the line 3—3 of Figure 1.

Fig. 4 is a perspective view of the stirrer blade, and

Fig. 5 is a section through the shaft 5.

As disclosed by the drawings, I make use of a suitable receptacle 1, which is round in plan and into which the pigments and oils to be mixed are placed. In this connection, I desire to state that my improvement is also susceptible to stirring and mixing ready mixed paints. The receptacle 1 may be of any desired capacity and has attached to its base a supporting casing 2. In the casing 2 there is a motor 3. This motor may be electrically operated or may be of the spring wound type, the last mentioned form being shown in the drawings. The key 4, for winding the motor, may be removably associated with the winding shaft of the spring, as is usual in clock-works, and the

spring shaft 5 extends through a suitable opening in one side of the casing. Driven by the motor there is a vertically disposed shaft 6 that passes through a suitable stuffing box 7 in the top of the casing 2 and the bottom of the receptacle 1. Secured on the shaft 6 there is the central portion of a spider 8, and to the ends of the said spider there are upstanding blades 9 which are preferably arranged angularly with respect to the shaft 6 and which are also arranged slightly out of contact with the inner wall of the receptacle 1.

The pigments and oils are placed in the receptacle, and the motor is wound to cause the same to revolve the shaft 6 and consequently the spider 8 and its blades 9. The motor is of a type which will run a comparatively long time at a single winding, so that a painter will have ample time to attend to the puttying of woodwork, the wiping off of the same and to other matters, without losing time in mixing the paint by hand. Of course, any desired number of mixing apparatus, in accordance with the different colors of paint to be used on a building may be employed, and it is thought that the foregoing description when taken in connection with the drawings will fully set forth the simplicity of my construction and its advantages to those skilled in the art to which such inventions relate.

Having described the invention, I claim:—

In a paint mixing apparatus, a receptacle in which paint to be mixed is placed, a casing secured on the bottom of the receptacle and providing a rest therefor, a motor in the casing, a shaft operated thereby extending through a packing box into the receptacle, a spider on said shaft, and upwardly directed angularly arranged arms on the ends of the spider disposed close to but out of contact with the inner wall of the receptacle.

In testimony whereof I affix my signature.
NIEMAN A. FRYDENLUND.