

# UNITED STATES PATENT OFFICE

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## CANDLE AND METHOD OF MAKING SAME

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8 Claims. (Cl. 87—21)

This invention relates to certain new and useful improvements in candles and method of producing the same.

The main object of the invention is to produce an improved solid or self-sustaining candle capable of being used in rubrics by reason of the fact that it contains or comprises fifty or more percent of vegetable oil, as required.

Heretofore, lights used in rubrics which are required to contain fifty or more percent of a vegetable oil have been in liquid or semi-liquid form, with the result that it was necessary to burn such lights with the liquid or semi-liquid confined or contained in a receptacle.

This invention is perhaps best adapted to candles of long-burning character and size, such as eight-day candles, but has various adaptations.

I have found that a very satisfactory candle can be produced which comprises a substantial percentage, as 50% or more vegetable oil combined with paraffin wax, stearic acid, beeswax or other waxes if the vegetable oil, such as rape-seed oil is first hydrogenated and then mixed with the paraffin wax, stearic acid, beeswax or other waxes. The hydrogenation of the vegetable oil such as perhaps preferably rape-seed oil may be effected in any suitable and well known manner, and a perhaps preferred composition consists of 51% of hydrogenated rape-seed oil thoroughly combined or mixed with 49% of paraffin wax, stearic acid, beeswax, or other wax, or any combination of such waxes.

The combined materials are molded in any suitable and well known manner to a desired shape and size.

It is found that by the use of this method and the materials described, a candle which is solid and self-sustaining results, and the oiliness natural to vegetable oils does not appear or exist in the completed candle. These candles can be burned in the same manner as ordinary candles and by reason of their solid, self-sustaining nature are not necessarily enclosed within receptacles.

It will be apparent that the percentage of hydrogenated vegetable oil, preferably rape-seed oil, altho other oils such as olive oil may be used, can be widely varied so long as the composition comprises 50% or more of such hydrogenated vegetable oil if the candle is to be used in rubrics.

Further, various waxes or combinations of waxes may be combined with the hydrogenated vegetable oil and their percentage may vary in accordance with the percentage of hydrogenated vegetable oil selected.

I claim:

1. A self-sustaining candle consisting of a homogeneous solid mass comprising approximately 49 percent of wax and approximately 51 percent of a hydrogenated vegetable oil.

2. A self-sustaining candle consisting of a homogeneous solid mass comprising approximately 49 percent of wax and approximately 51 percent of hydrogenated rape seed oil.

3. A form sustaining candle having a wick therein and consisting of pure beeswax and a hydrogenated non-drying or semi-drying vegetable oil.

4. A form sustaining candle having a wick therein and consisting of pure beeswax and a hydrogenated vegetable oil.

5. A self-sustaining candle consisting of a homogeneous solid mass having a wick therein and comprising wax and a hydrogenated vegetable oil.

6. A self-sustaining candle consisting of a homogeneous solid mass having a wick therein comprising at least approximately 50% of hydrogenated vegetable oil and a wax.

7. A self-sustaining candle consisting of a homogeneous solid mass having a wick therein and comprising at least approximately 50% of hydrogenated rape seed oil and a wax.

8. A form-sustaining candle having a wick therein and consisting of at least approximately 50% of a hydrogenated oil and the remainder of wax.

HOWARD C. WILL.

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