. With respect to the preparation process; as: a W. .0.

## CHAPTER 11

## Classification of Burners

There is a great multiplicity of types of so-called oil burners. Of the numerous makes of house heating burners, there are basic features common to all, differing in minor details. It may be said that they are now pretty well standardized.

A classification to be comprehensive should be made from

various points of view, as:

- With respect to control, as:
  - a. Manual (hand).
  - b. Semi-automatic.
  - c. Fully automatic.
- 2. With respect to service, as:
  - a. Domestic.
  - b. Commercial of ord of been so for of the benefit of the benefit
  - c. Industrial.
- 3. With respect to fuel, as:
  - a. Gasoline.
  - b. Kerosene.

light domestic.
medium domestic.
heavy domestic.
light industrial.
medium industrial.
heavy industrial.

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- 4. With respect to the preparation process, as:
  - a. Vaporizers.
  - b. Sprayers (alleged "atomizers").
  - c. Combined sprayers and vaporizers.
- 5. With respect to spraying agent, as:
  - a. Air.
  - b. Steam.
- 6. With respect to the method of projecting the fuel, as:
  - a. Gravity.
  - b. Pressure on oil. 2011 sold sold to anism sucrement odd
- c. Induction, Tomm in milering in minor, common seic features common to all, differing in minor, restricted in the common to all the commo
- d. Centrifugal force. Siz llaw vitter won are vedt that bigs A classification to be comprehensive should be made from
- 7. With respect to the method of mixing and spraying, as:

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- drooling. 128 Journey of the dear mil V. I a. Outside mixing projector. centrifugal.
- chamber. b. Inside mixing centrifugal.
- 8. With respect to the force used to project the fuel, as:
  - a. High pressure.
  - b. Low pressure.
  - c. Centrifugal force.
- 9. With respect to draught, as:
  - a. Natural.
  - b. Forced.

- 10. With respect to ignition, as:
  - a. Electric { intermittent. continuous.

  - Oues. Why isn't an alleged "oil burner" a sire.
  - Ans. Simply because it doesn't burn the oil launaM .s
- the oil for burning, combustion taking place in a space not con-
  - 11. With respect to location of the burner, as: Oues. How does it prepare the oil for
    - a. Inside of boiler.
- Ans. By performing the following examined by Sold and Ans. Spraying or breaking up the oil into minute globules; 2, mixing
- air with these globules in proper proportion; 3, giving turbu-12. With respect to operation, as: of other and of some
  - a. Continuous.
  - b. High and low.
  - c. Intermittent.
- The word "atomiter" as applied to burners is a ridiculous and mis-13. With respect to burners introducing centrifugal force, as:
  - a. Centrifugal vanes { inside. outside.
  - b. Rotary motor driven. fan driven.
  - 14. With respect to miscellaneous types, as:
    - a. Pot.
    - b. Gun.
    - c. Multiple spray.
    - low pressure. high pressure. d. Venturi

10. With respectancionition out

d. Elegicie las

e. Proportioning.

f. Variable capacity.

Ques. Why isn't an alleged "oil burner" an oil burner?

Ans. Simply because it doesn't burn the oil but prepares the oil for burning, combustion taking place in a space not contained in the alleged burner.

Ques. How does it prepare the oil for burning?

Ans. By performing the following essential operations: 1. Spraying or breaking up the oil into minute globules; 2, mixing air with these globules in proper proportion; 3, giving turbulence to the mixture to thoroughly mix the air and oil.

Ques. What doesn't the burner do?

Ans. It doesn't atomize the oil.

The word "atomizer" as applied to burners is a ridiculous and misleading misnomer — simply hot air sales talk.

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