

UNITED STATES PATENT OFFICE.

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ILLUMINATE ELECTRIC HEATER. Specification of Letters Patent.

1,196,073.

Application filed February 16, 1916. Serial No. 73,755.

To all whom it may concern:

Be it known that we, HERBERT HENRY BERRY and WILLIAM JAMES MARKHAM, citizens of the United Kingdom of Great Brit-

- ain and Ireland, and residents of 78 Upper Thames street, London, E. C., England, and Suffolk Works, Oozells street, Birmingham, Warwickshire, England, respectively, have invented certain new and useful Improve-
- 10 ments in Illuminate Electric Heaters, of which the following is a specification, such as will enable others skilled in the art to which it appertains to make and use the same.
- This invention relates to electric heaters, 15 radiators, convectors or the like of the kind in which a flickering effect is obtained by means of a lamp or lamps whose light is thrown on to the heater through a per-20 forated member rotated by a fan driven by
- the heat of the heater.

The present invention has for its object to provide improved means for producing the flickering effect. To this end the light

from a lamp or lamps is intermittently thrown on to a reflector through the inter-25mediary of a rotatable perforated disk. The disk is mounted on a shaft on which a fan driven by the rising hot gases is se-30 cured.

The reflector, or reflectors, is or are made of aluminium or other suitable material and are fixed adjacent to the heat units or heater bars of the non-luminous, semi-35 luminous or luminous types.

In order that the invention may be clearly understood, reference will now be had to the accompanying drawing whereon the invention is illustrated diagrammatically.

40 Figure 1 illustrates a front elevation of an electric heater. Fig. 2 a cross section on the line A-B of Fig. 1, and Fig. 3 a view of the disk.

The heater a is provided with a reflector
45 b adjacent to which the heat units c are mounted. Behind the reflector is arranged a spindle d on which is mounted a fan e. The spindle also carries a disk f provided with a series of apertures g arranged as

shown in Fig. 3 and under said disk is lo-cated an electric lamp h. This lamp is electrically connected with the heat units so 50as to be switched into circuit with said units. The heat units and lamp are connected with any convenient source of sup- 55 ply. When the current is passing through the heat units the rising hot air drives the fan and consequently the disk f is rotated. By reason of the apertures in the disk, the light from the lamp is intermittently 60 thrown onto the reflector thereby giving a flickering effect.

Patented Aug. 29, 1916.

We desire it to be clearly understood that the invention has been described merely by way of example and we reserve the right to 65 make any alteration falling within the scope of the following claims.

What we claim and desire to secure by Letters Patent is:-

1. An electric heater comprising a frame, 70 a series of heat units, a reflector arranged adjacent to said heat units, a lamp, a perforated disk arranged between said lamp and reflector, and means for rotating said disk. 75

2. An electric heater comprising a frame. a series of heat units, a reflector arranged adjacent to said heat units, a lamp, a perforated disk arranged between said lamp and reflector, and means driven by the ris- 80 ing hot gases for rotating said disk.

3. An electric heater comprising a frame, a series of heat units, a reflector arranged adjacent to said heat units, a lamp, a shaft, a fan on said shaft, and a perforated disk 85 on said shaft located between said lamp and reflector.

4. An electric heater comprising a frame, a series of heat units supported on said frame, a corrugated reflector on said frame, 90 said reflector being arranged adjacent to said heat units, a lamp, a perforated disk located between said lamp and reflector and means for rotating said disk said means 95 being actuated by the rising hot gases.

5. An electric heater comprising a frame, a reflector, a series of heat units located in proximity to said reflector, a lamp, and means whereby the light from the lamp is 100 intermittently thrown onto the reflector.

In witness whereof we have hereunto set our hands in presence of two witnesses.

> HERBERT HENRY BERRY. WILLIAM JAMES MARKHAM.

Witnesses:

HENRY FAIRBROTHER, CHARLES HENRY ALLWOOD.