March 18, 1941. J. M. MILLER 2,235,461

HEAT SCATTERER

Filed April 19, 1939

Fig. 1.

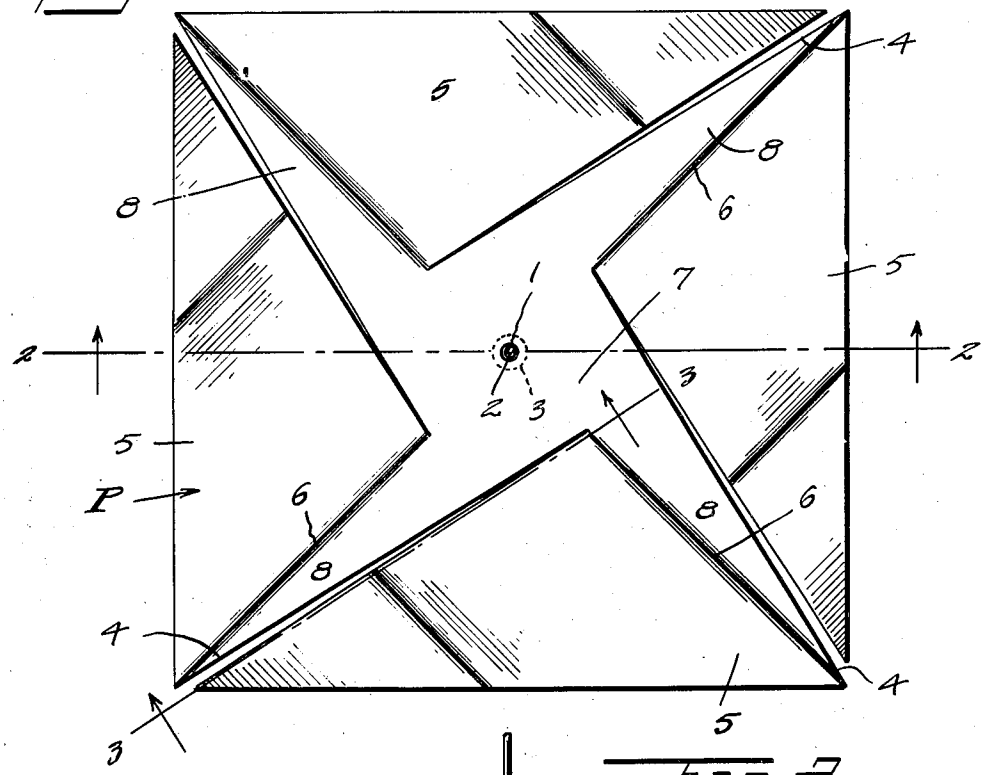


Fig. 2.

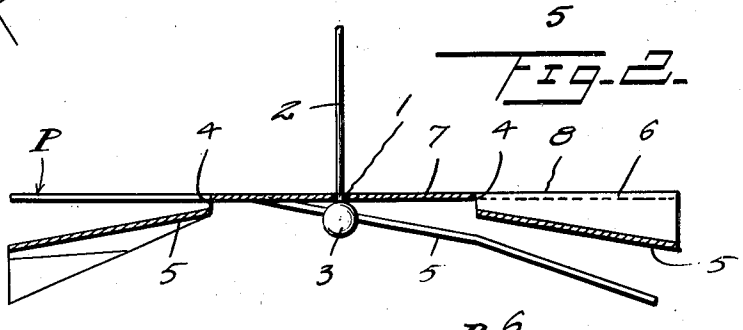
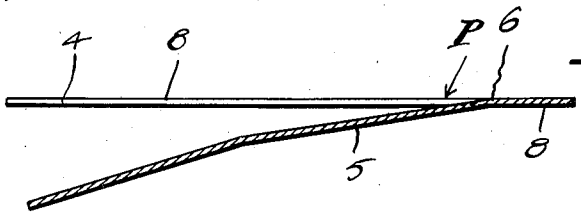


Fig. 3.



Inventor

J. M. Miller

By Watson E. Coleman

Attorney

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UNITED STATES PATENT OFFICE

2,235,461

HEAT SCATTERER

James M. Miller, Kiowa, Kans.

Application April 19, 1939, Serial No. 268,837

1 Claim. (Cl. 98—120)

This invention relates to a heat scatterer, and it is an object of the invention to provide a device of this kind adapted to be rotatably supported above a stove or other heating unit to prevent the heat going direct to the ceiling of the room in a narrow heat wave but operating to quickly and evenly spread the heat.

The invention consists in the details of construction and in the combination and arrangement of the several parts of my improved heat scatterer whereby certain important advantages are attained and the device rendered simpler, less expensive and otherwise more convenient and advantageous for use, as will be hereinafter more fully set forth.

The novel features of my invention will hereinafter be definitely claimed.

In order that my invention may be the better understood, I will now proceed to describe the same with reference to the accompanying drawing, wherein—

Figure 1 is a view in top plan of a heat scatterer constructed in accordance with an embodiment of my invention, a coacting supporting element being shown in section;

Figure 2 is a sectional view taken substantially on the line 2—2 of Figure 1;

Figure 3 is a detailed sectional view taken substantially on the line 3—3 of Figure 1.

My improved spreader as herein disclosed is preferably formed from a single sheet of desired material preferably substantially square in top plan as illustrated in Figure 1.

As herein disclosed the plate P at its axial center is provided with an opening 1 through which is freely directed from below a hanger 2 adapted to be engaged with any desired support whereby the plate P may be suspended for rotation at a desired height above a stove or other heating unit. The lower end of this hanger 2 carries an enlarged spherical head 3 upon which the plate P rests from above, said head 3 permitting the plate P to revolve with a minimum of frictional resistance. The plate P from its corners is cut, as at 4, on straight lines to points to one side of and in relatively close proximity to the opening 1 whereby is provided a series of triangular wings 5.

These wings 5 each has its base defined by a line 6 resulting from a downward folding of the wing 5. This line 6 is disposed radially with respect to the opening 1 from the corner of the plate P remote from the outer or free end of the wing 5 inwardly to the inner end of the adjacent cut 4. The inner portion of each of the wings 5 is disposed on a downward incline of about thirty degrees while the apex portion of each of said wings is extended downward on a greater incline than the inner portion of the wing as is clearly illustrated in the accompanying drawing.

The central portion 7 of the plate P is substantially flat and the formation of the wings 5 results in the production of four substantially flat arms 8 each substantially in the form of an elongated V with, of course, its apex outwardly disposed. As is clearly illustrated in Figure 1, the line of bend 6 of each of the wings 5 is in alignment with the bend 6 of a second wing.

With the plate P as herein disclosed properly suspended over a stove or other heating unit, the heat waves rising from said stove or unit strike the plate from below and through the instrumentality of the wings 5 will cause said plate to revolve thus resulting in a quick and even spreading of the heat throughout the entire room and eliminating the direct rising of the heat from the stove or heating unit to the ceiling.

It is also to be noted that the construction of my improved heat scatterer is such as to provide surfaces each of sufficient area to allow, if desired, advertising matter or other indicia to be produced thereon.

From the foregoing description it is thought to be obvious that a heat scatterer constructed in accordance with my invention is particularly well adapted for use by reason of the convenience and facility with which it may be assembled and operated, and it will also be obvious that my invention is susceptible of some change and modification without departing from the principles and spirit thereof and for this reason I do not wish to be understood as limiting myself to the precise arrangement and formation of the several parts herein shown in carrying out my invention in practice except as hereinafter claimed.

I claim:

A heat spreader comprising a plate rectangular in plan and provided with a central opening, said plate being provided with cuts each extending from a corner of the plate to a point to one side of but in close proximity to the opening to provide wings, each of said wings being downwardly disposed on a line on the plate radial to the axial center thereof, each portion of the plate between a cut and a line of bend of an adjacent wing constituting a substantially flat arm in the form of an elongated V with its apex outwardly disposed, each bend being substantially aligned with the line of bend of a second wing.

JAMES M. MILLER.