

(No Model.)

H. M. PAUL.
CEILING PROTECTOR.

No. 598,435.

Patented Feb. 1, 1898.

Fig. 1.

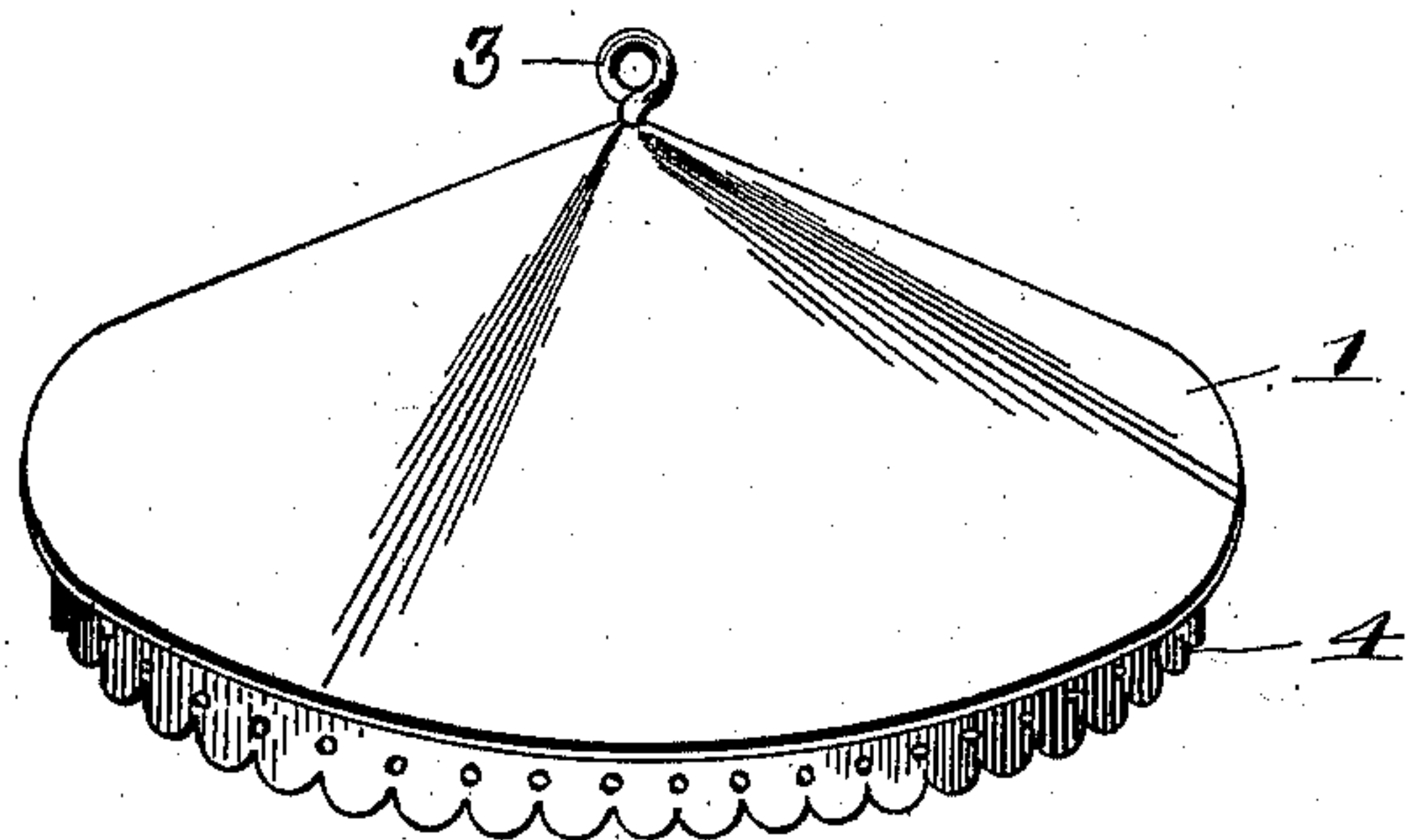


Fig. 2.

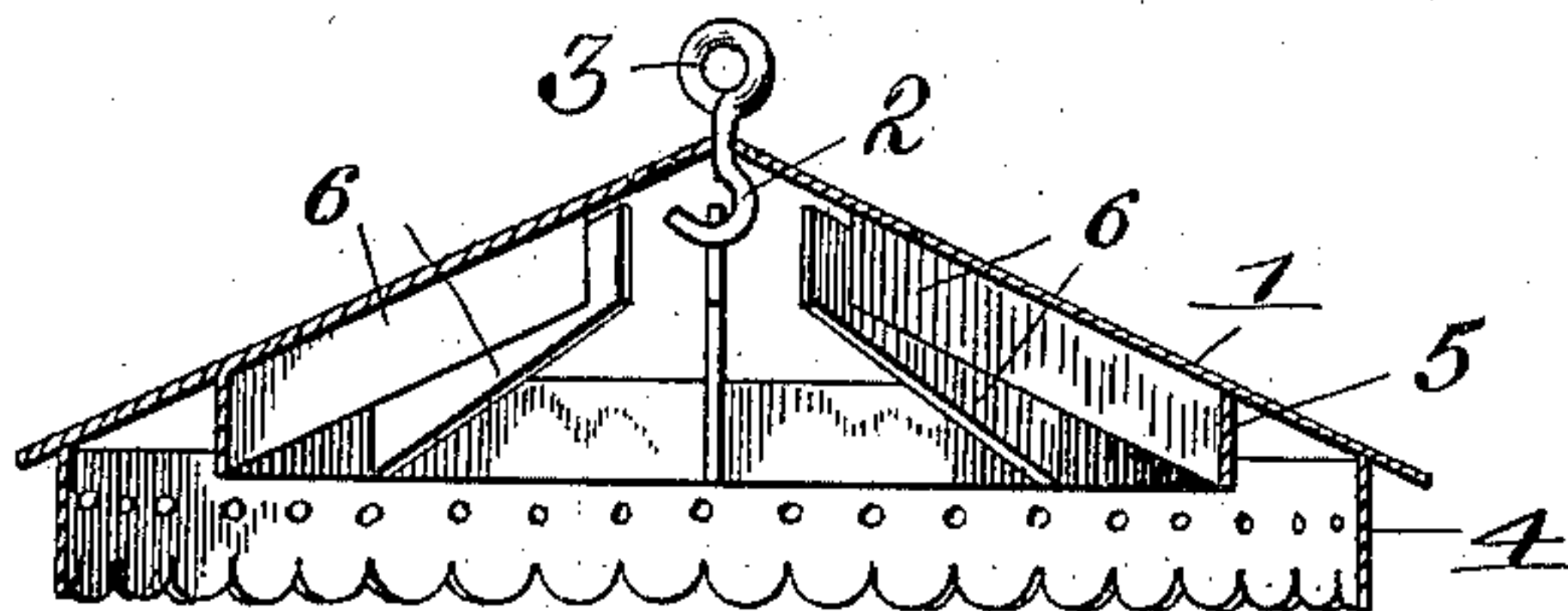
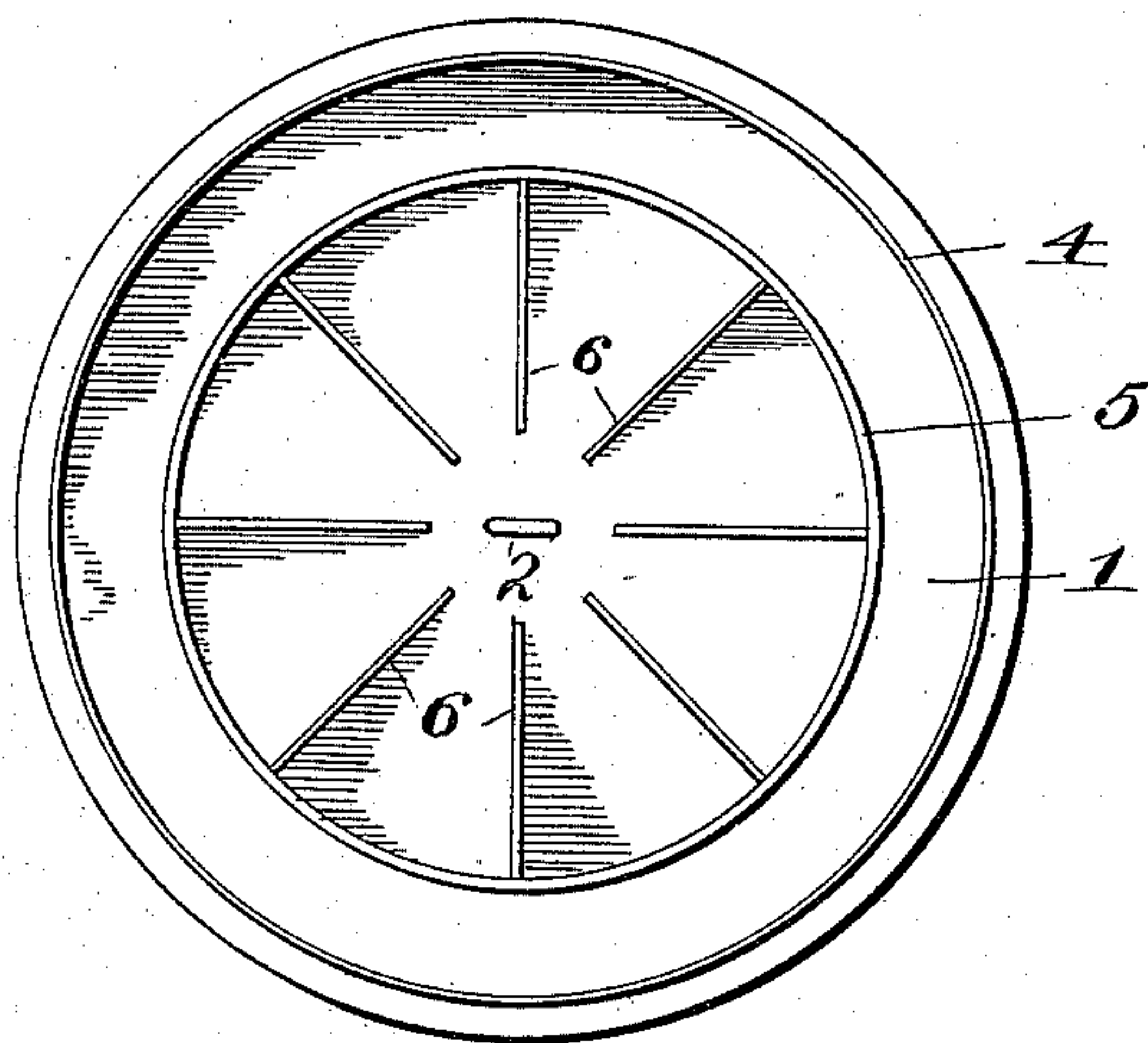


Fig. 3.



Witnesses

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HERBERT M. PAUL, OF HERKIMER, NEW YORK.

CEILING-PROTECTOR.

SPECIFICATION forming part of Letters Patent No. 598,435, dated February 1, 1898.

Application filed June 12, 1897. Serial No. 640,483. (No model.)

To all whom it may concern:

Be it known that I, HERBERT M. PAUL, of Herkimer, in the county of Herkimer and State of New York, have invented certain
5 new and useful Improvements in Ceiling-Pro-
tectors; and I do hereby declare the following
to be a full, clear, and exact description of the
invention, such as will enable others skilled
in the art to which it appertains to make and
10 use the same.

This invention relates to improvements in
ceiling-protectors, and has for its object to
provide a device which will not only afford
protection to the ceiling against smoke and
15 heat, but will at the same time serve as a
diffuser of the heat generated by the flame
of the lamp beneath.

My device is exceedingly simple and cheap
of manufacture and can be made of highly
20 ornamental design and appearance, at the
same time fully serving its purpose.

In the drawings forming part of this speci-
fication, Figure 1 is a view in perspective of
my improved ceiling-protector. Fig. 2 is a
25 central transverse sectional view. Fig. 3 is
an inverted plan view.

In the construction of my device I form of
tin, sheet metal, copper, or any other suit-
able sheet metal an obtuse conical top por-
30 tion 1, having fixed therein and depending
from its center a metal hook 2, the shank of
said hook passing through the portion 1 and
being fashioned above the same into a staple
or ring 3. I next provide, secured in a de-
35 pending position adjacent to the edge of por-
tion 1, an annular band 4, which may, if de-
sired, be ornamented by perforated figures
or otherwise. Within the space encircled
within this band and approximately midway
40 between the center and the band I provide
another annular band 5, having its upper
edge secured to and depending from the un-
der surface of portion 1. Within the last-
named annular space I erect a plurality of
45 vertical partitions 6, extending from the band
5 to nearly the center of the portion 1, from
which depends a hook 2. I thus create a
plurality of segmental spaces 7, at the same

time multiplying the area of the metal sur-
face absorbing and diffusing the heat gener- 50
ated by the lamp.

Most of the ceiling-protectors consist of a
single sheet slightly concaved upon its under
surface, affording no surface for radiation
beyond that existing in the area of the lower 55
surface of said device. In my improved pro-
tector, however, by the use of depending an-
nular bands 4 and 5 and the segmental par-
titions 6 the area for radiation is greatly mul-
tiplied, and so much of the heat generated 60
by the lamps and absorbed by the protector
is more quickly diffused by radiation.

My improved protector is adapted to be hung
from the ceiling over a lamp-stand, or may
form part of such stand, the lamp-bracket to 65
be beneath the protector, in which case it
should be somewhat elevated beyond the top
of the lamp-chimney.

Having thus described my invention and
its use, what I claim, and desire to secure by 70
Letters Patent, is—

1. A ceiling-protector against the smoke and
heat of lamps, consisting of an obtuse conical
portion adapted to be suspended by a staple
or otherwise from a wall or ceiling over a 75
lamp, said conical portion being provided with
a depending outer annular band, an inner an-
nular band, and a plurality of vertical parti-
tions extending inwardly from said inner
band dividing said inner portions into seg- 80
mental areas, substantially as described.

2. In an improved ceiling-protector, the
combination with a body portion consisting
of an obtuse conical cap, of a depending an-
nular band secured to the under surface and 85
adjacent to the outer edge portion, and an
inner annular band secured in a similar man-
ner, a plurality of vertical radial partitions
dividing the inner circular area, and a cen-
tral depending hook secured to said conical 90
portion, all substantially as shown and de-
scribed.

3. As a new article of manufacture the
herein-described ceiling-protector consisting
of an obtuse conical sheet-metal body por- 95
tion, a vertical shank projected through its

center, having its upper end formed into a staple or ring and its lower end into a supporting lamp-hook, an annular band depending from the under surface of said body portion adjacent to the edge thereof, an inner
5 smaller depending band similarly secured to the body portion, and a plurality of radial partitions extending inwardly from the smaller band to a point adjacent to the center of the

body portion all as herein shown and described. 10

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

HERBERT M. PAUL.

Witnesses:

FRANK SPOHN,

FRANK G. WHITE.