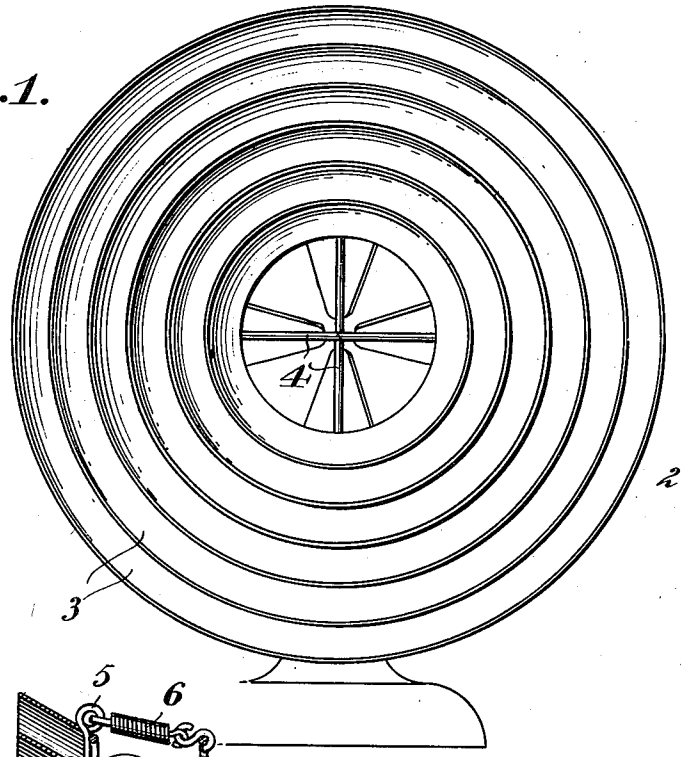
S. CALDWELL & C. J. WILLIAMS.

AIR DISTRIBUTER.

APPLICATION FILED JAN. 12, 1915.

1,192,857. Patented Aug. 1, 1916.

Fig. 1.



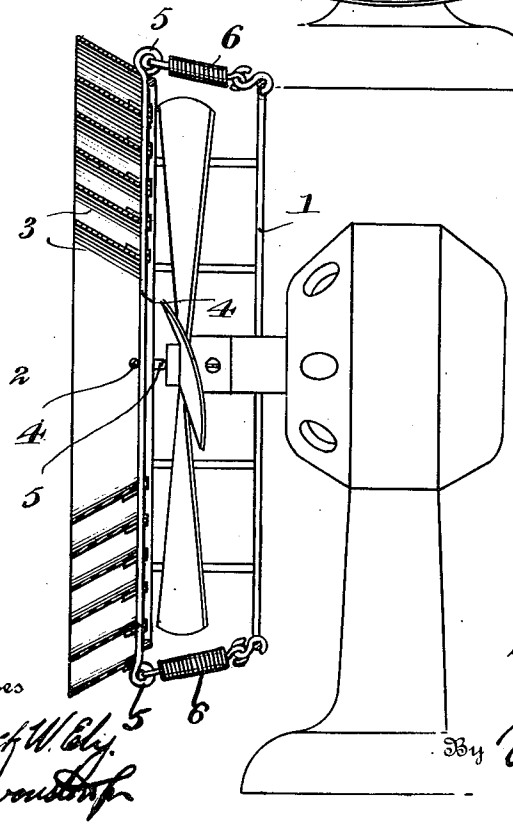


Fig. 2.

Witnesses

Frederick W. Ely.

E. Edwards Knapp

Inventor

Stafford Caldwell,

C. J. Williams.

By Victor J. Evans

Attorney

UNITED STATES PATENT OFFICE.

STAFFORD CALDWELL, OF LIVE OAK, FLORIDA, AND CHARLES J. WILLIAMS, OF ATLANTA, GEORGIA.

AIR-DISTRIBUTER.

1,192,857. Specification of Letters Patent. Patented Aug. 1, 1916.

Application filed January 12, 1915. Serial No. 1,866.

To all whom it may concern:

Be it known that we, STAFFORD CALDWELL and CHARLES J. WILLIAMS, citizens of the United States, residing, respectively, at Live Oak and Atlanta, in the counties of Suwanee and Fulton, and States of Florida and Georgia, have invented new and useful Improvements in Air-Distributers, of which the following is a specification.

This invention relates to air distributers and more particularly to air distributers for electric fans.

The principal object of the invention is to provide a simple, efficient and inexpensive device of this character which will distribute the air from the fan over a relatively large area and which will prevent excessive drafts and yet produce a proper circulation of air.

Another object of the invention is the provision of a device of this character which may be simply and conveniently attached or removed from the fan cage of an ordinary electric fan.

Further objects of the invention will appear as the following description is read in connection with the accompanying drawing, which forms a part of this application, and in which:—

Figure 1 is a front elevation. Fig. 2 is a vertical section taken therethrough.

Referring more particularly to the drawing, 1 illustrates an ordinary electric fan cage and 2 the distributing device. This distributing device comprises a plurality of concentrically arranged frusto-conical rings 3 outwardly inclined and attached together by means of the cross wires 4 having loops 5 at opposite terminals to which one end of the springs 6 are secured. The opposite ends of the springs 6 carry S-hooks, so that the distributing device may be attached to fan casings of different sizes, said hooks being ordinarily connected with the rear guard bar of the cage. When a device of this character is applied to the fan air will be radiated in all directions from the center of the fan and distributed over a large area, which will be approximately five times as great as the area of the fan without the distributer.

It will, of course, be understood that these distributers may be made in any size or that they may be made in the form of concentrically arranged frusto-conical members, rectangular in outline. The preferred form, however, is illustrated herein.

What is claimed is:—

In combination with a fan having a cage, of an air diffuser, mounting bars rigidly secured to one side of said diffuser, and traction springs connecting said bars with the rear of said cage, said bars being greater in length than the diameter of the cage whereby the line of tension will be toward the axis of the cage for the purpose described.

In testimony whereof we affix our signatures in presence of two witnesses.

STAFFORD CALDWELL.
CHARLES J. WILLIAMS.

Witnesses as to Stafford Caldwell:
JNO. F. HARRELL,
W. C. MCDANIEL.

Witnesses as to Charles J. Williams:
GEO. H. HOLLIDAY,
J. R. RANKIN.