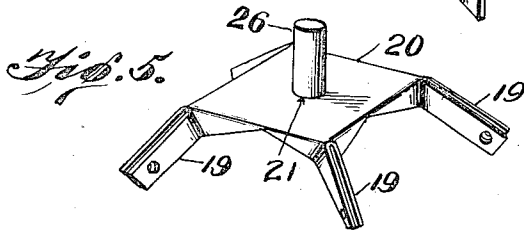
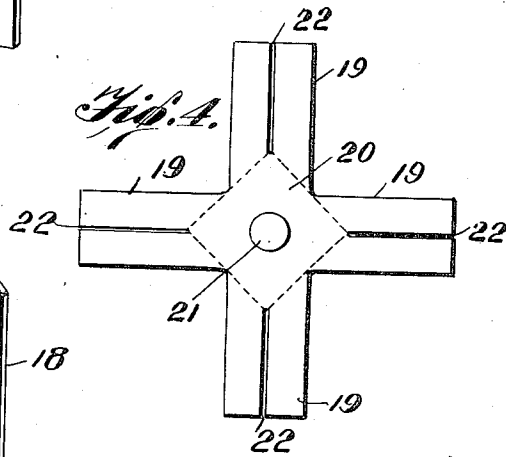
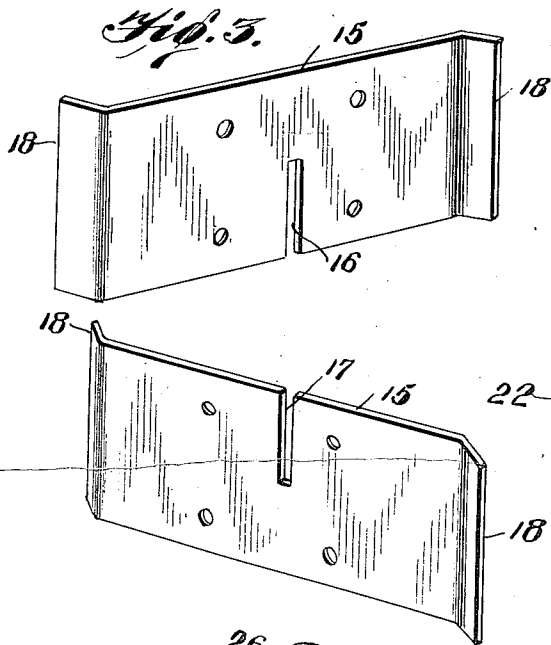
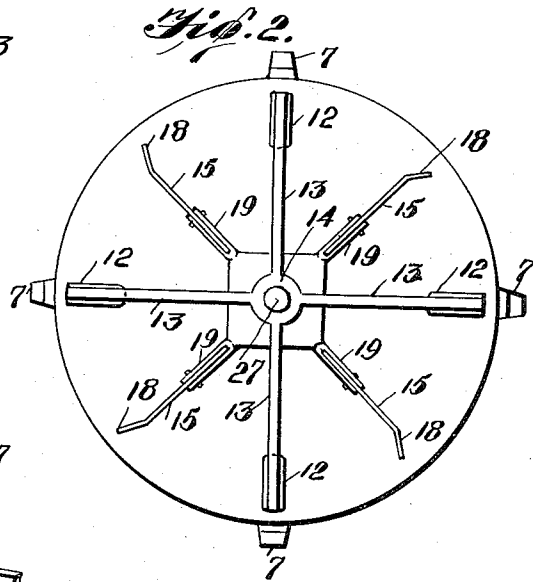


FAN.

1,005,572.

Patented Oct. 10, 1911.



Inventor

JAMES G. PARKERSON, Jr.

Witnesses

Mr. L. M. Cathron.

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UNITED STATES PATENT OFFICE.

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FAN.

1,005,572.

Specification of Letters Patent. Patented Oct. 10, 1911.

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To all whom it may concern:

Be it known that I, JAMES G. PARKERSON, Jr., a citizen of the United States, residing at La Fayette, in the parish of Lafayette and State of Louisiana, have invented certain new and useful Improvements in Fans, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to fans especially adapted for ventilating and the principal object of the same is to provide novel blades for the fan that will distribute air currents in all directions and also to provide novel
15 brackets for rigidly holding the blades in radiating relation.

A preferred and practical embodiment of the invention is shown in the accompanying drawings wherein—

20 Figure 1 is a central vertical sectional view of the improved fan. Fig. 2 is a top plan view thereof. Fig. 3 is a detail perspective view of the blades of the fan, said blades being disconnected. Fig. 4 is a top
25 plan view of the blank of the top bracket for the blades. Fig. 5 is a detail perspective view of the bracket formed from the blank shown in Fig. 4.

The improved fan comprising a casing 6, preferably cylindrical, equipped with supporting feet 7. A motor 8 is centrally arranged in casing 6 and has a drive shaft 9 projecting through the top of said casing. The motor 8 has feed wire connections 10
35 with a source of electricity, not shown. Regularly spaced standards 11 have flat inwardly projecting feet 12 fastened to the top of casing 6, the upper ends of said standards carrying the arms 13 that radiate
40 from a central bearing plate 14.

The improved fan has been shown as provided with four blades, said blades being formed of two flat elongated strips of metal 15, one having a central vertical slot 16 that
45 extends from its lower edge, and the other being provided with a slot 17 that extends from its upper edge. The ends of the strips are bent in opposite directions and at an abrupt angle thereto to provide deflecting
50 wings 18. The two strips 15 are interlocked by means of their slots 16 and 17 to provide the radiating blades and each blade is engaged by the bifurcated corner extensions
19 of the upper and lower flat brackets 20.

55 The brackets 20 are duplicates, and are

formed from single sheets of metal, as shown in Figs. 4 and 5, the flat body portions and the corner extensions being formed by one operation of a stamping or punching machine, the body having a central opening 21 formed therethrough and the corner extension being longitudinally slitted, as indicated at 22, so that they can be readily shaped for engagement with opposite surfaces of the fan blades.

65 A socket 23 has its shank 24 suitably fastened within the central opening of the lower bracket and the motor shaft 9 extends into said socket 23 and is rigidly fastened therein by the key 25. A stub shaft 26 projects from the central opening of the upper bracket and is journaled in the bearing plate 14. A lubricator 27 is carried by plate 14 to supply lubricating material to the bearing therein.

75 It will be clear from the foregoing that the brackets overlap the longitudinal edges of the fan blades at their meeting points and that the bifurcated corner extensions 19 engage opposite surfaces of the said blades, thereby holding said blades against relative movement. It will also be clear that the manner of interlocking the strips forming the blades, permits four blades to be obtained from two strips, and, further, that
85 the angular ends of said blades provide simple means for deflecting the air currents in all directions.

What I claim as my invention is:—

1. A fan comprising a casing, standards 90 carried thereby, radiating arms carried by said standards, a bearing plate, a motor in said casing and having a shaft projecting through the top thereof, an upper bracket, a shaft carried thereby and journaled in
95 said plate, a lower bracket, a socket carried thereby and engaging the motor shaft, fan blades, and outwardly projecting bifurcated arms extending from the corners of said brackets and engaging said blades.

100 2. A fan comprising radiating blades, upper and lower brackets formed of a single sheet of metal shaped to provide flat bodies having corner extensions that are bifurcated to engage opposite surfaces of said blades, a support, fan rotating means carried thereby, a socket projecting from the lower bracket and engaging said fan rotating means, standards carried by said support, arms
105 projecting from the upper ends thereof, a

100

105

110

bearing plate carried by said arms, and a shaft carried by the upper bracket and journaled in said plate.

3. A fan comprising radiating blades, said
5 blades consisting of elongated strips of sheet metal, one strip being provided with a central downwardly extending slot, and the other strip being provided with a central upwardly extending slot, said slots permitting said strips to be interlocked, the ends
10 of said blades being bent to provide flat

deflecting wings, upper and lower brackets engaging said blades to hold the same in radiating relation, and means for rotating said blades.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

JAMES G. PARKERSON, JR.

Witnesses:

URSIN U. THEBERT,
JOHN L. KENNEDY.