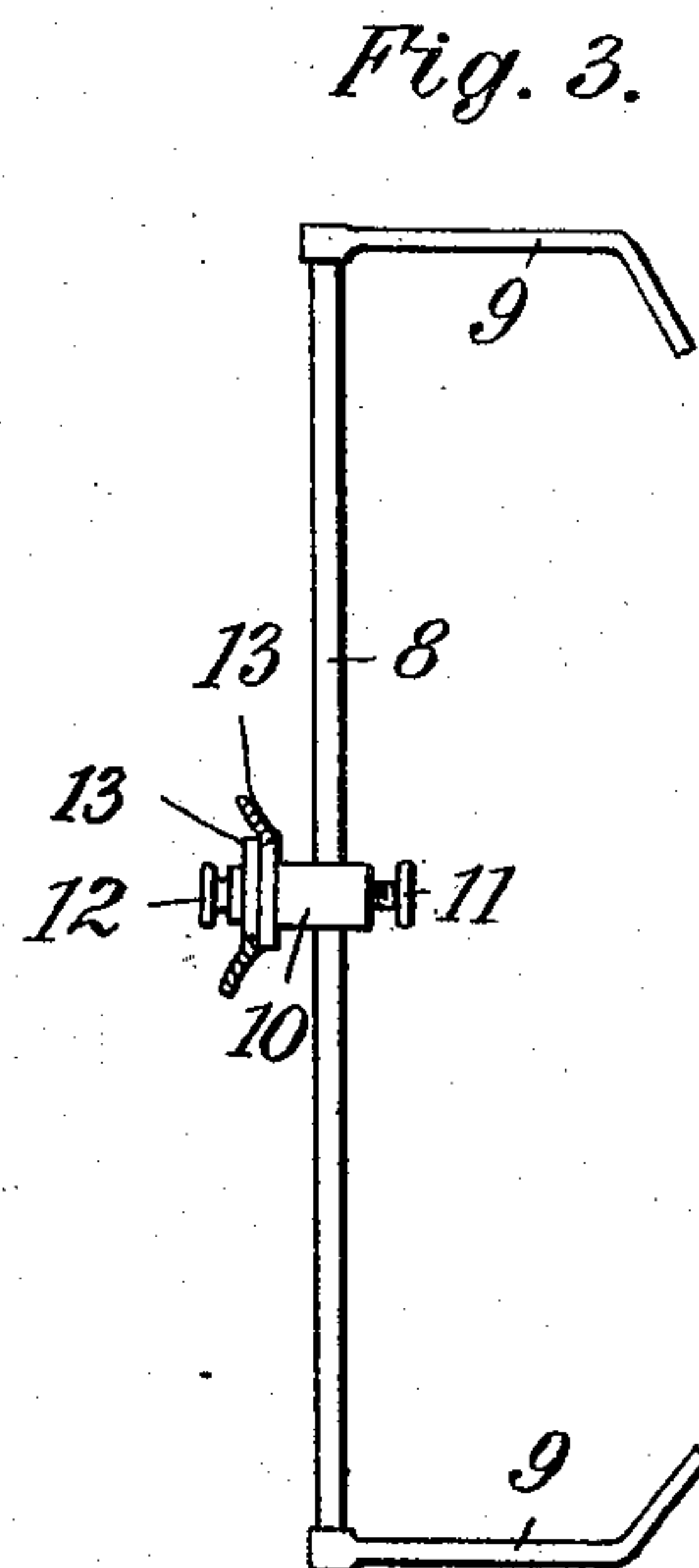
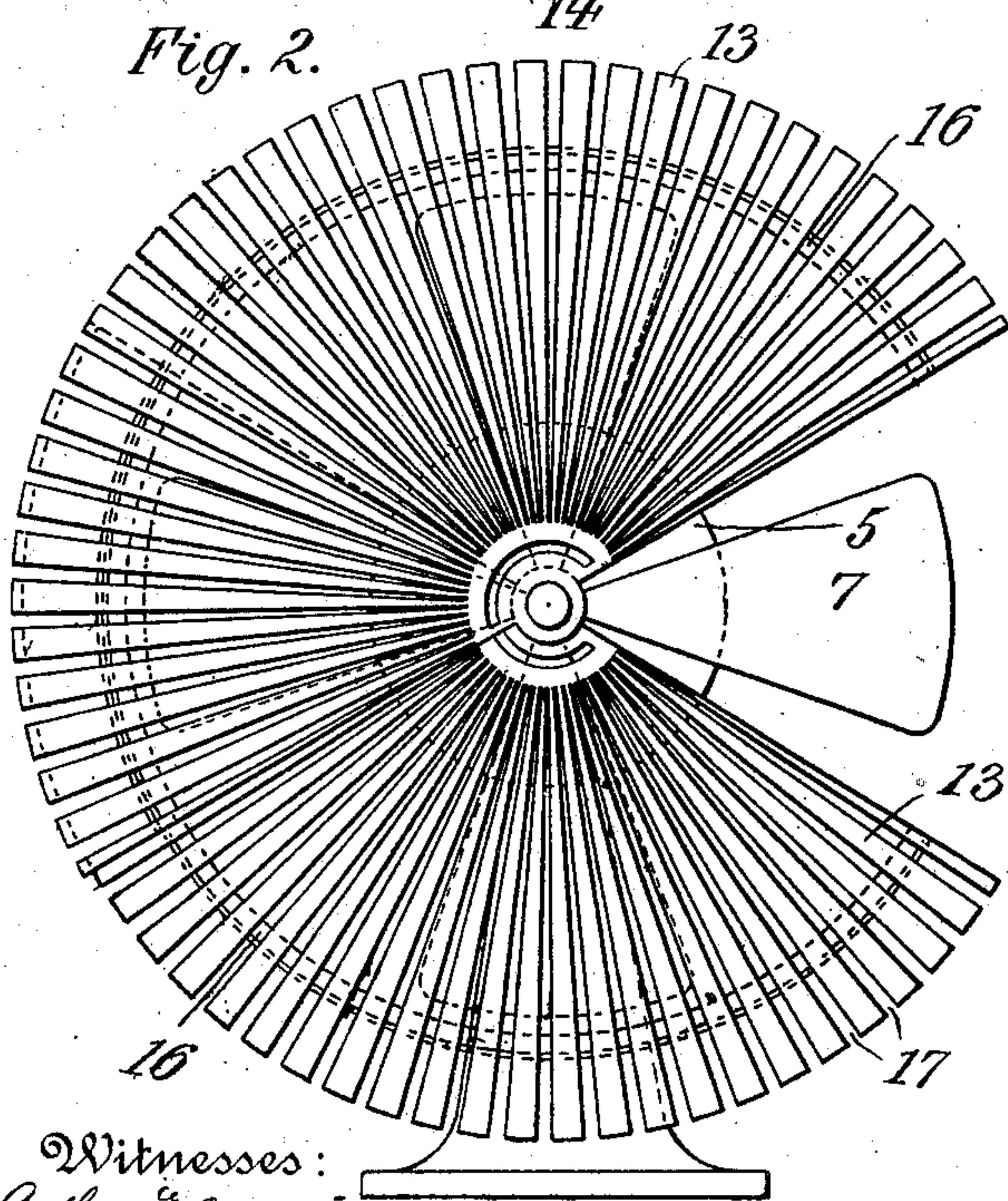
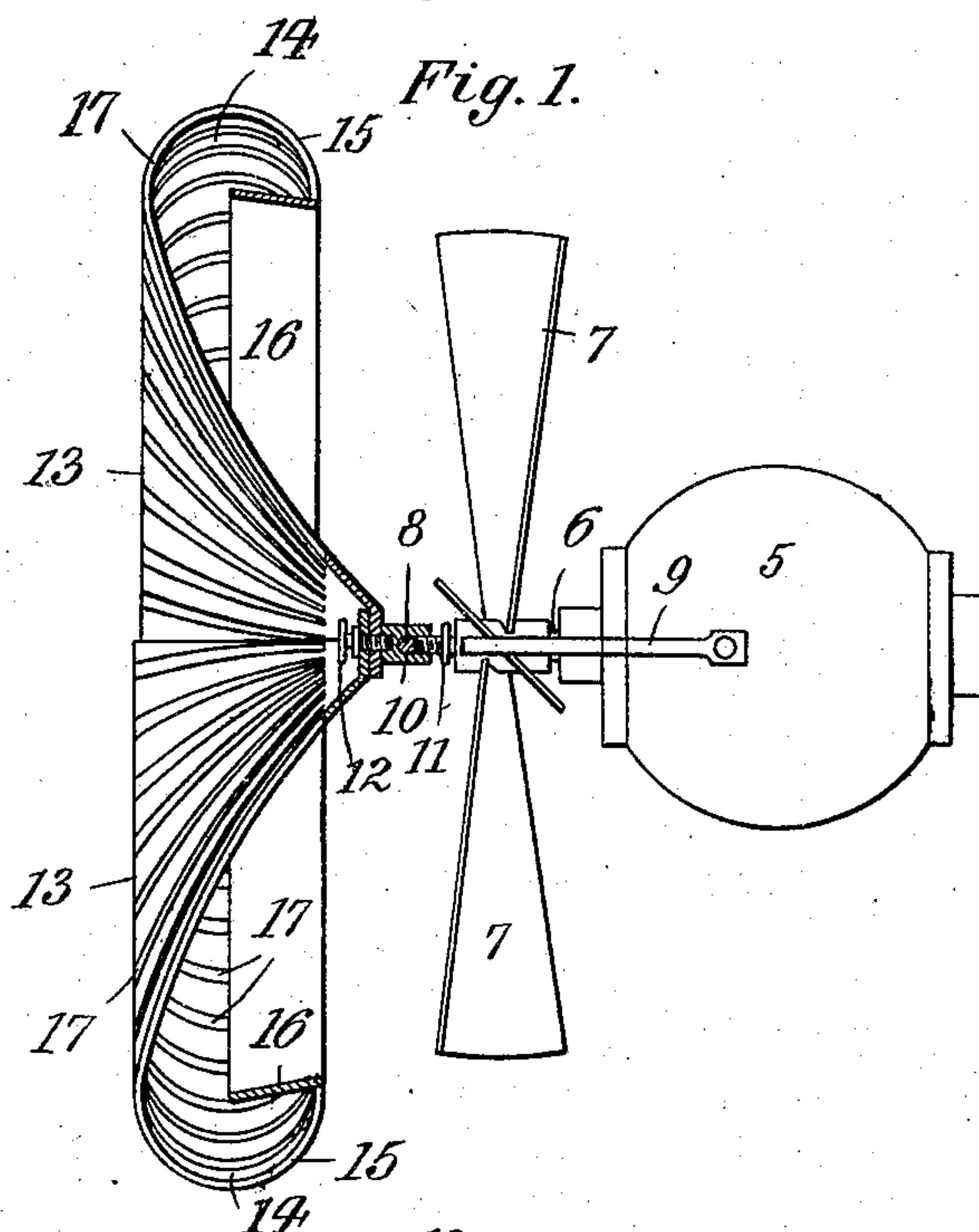


No. 867,680.

PATENTED OCT. 8, 1907.

O. SELG.
FAN.

APPLICATION FILED MAY 2, 1907.



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UNITED STATES PATENT OFFICE.

OTTO SELG, OF NEW YORK, N. Y.

FAN.

No. 867,680.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, OTTO SELG, a citizen of the United States, residing at New York city, (Manhattan,) county and State of New York, have invented new and useful Improvements in Fans, of which the following is a specification.

This invention relates to an improved fan and more particularly to novel means for deflecting the air blast and causing it to spread over an increased area.

10 In the accompanying drawing: Figure 1 is a plan of my improved fan, showing the deflector in section; Fig. 2 a front elevation thereof, and Fig. 3 a detail of the deflector attaching means.

Within the housing 5 of an electric fan turns the shaft 15 6, carrying the vanes 7, as usual. In front of vanes 7, there extends an upright rod 8 secured to housing 5 by upper and lower arms 9. Rod 8 is embraced by a socket 10 which is rotatably mounted thereon and may be locked in position by a clamp screw 11. To the 20 front of socket 10 there is secured by clamp screw 12, a deflector or air distributor composed of two overlapping sections 13, 13, set in advance of each other, so that they may be independently turned on their axis. Each section 13 is made flaring or semi-bell-shaped, 25 and is provided at the curved part of its periphery with a rear pocket or air trap 14. This pocket is formed between the rearwardly curved rim 15 of section 13 and a flange 16 projecting forwardly from such rim. Slots or perforations 17 in sections 13, and extend-

ing also over rim 15, permit the free passage of air there- 30 through. Flange 16 is, however, imperforate, so that the air flowing into pocket 14, will be deflected and pass through openings 17 in various directions over a wide area.

It will be seen that by causing sections 13 to overlap to 35 a greater or less extent, the sector-shaped opening thus formed may be varied in size and location, so that the direction and volume of the blast is under full control. So also, by turning socket 10 on rod 8, the deflector may be set at various angles to the axis of the fan. 40

I claim:

1. A fan provided with a deflector composed of slotted sections, means for independently turning said sections, means for locking said sections, and means for setting said sections at various inclinations to the axis of the 45 fan, substantially as specified.

2. A fan provided with a deflector composed of a slotted body having a rearwardly extending slotted rim, and an imperforate flange extending forwardly from said rim, 50 substantially as specified.

3. A fan provided with a housing, a rod secured thereto, a socket adjustably engaging said rod, a slotted curved deflector secured to the socket, and an imperforate flange on the rear side of said deflector, substantially as specified.

Signed by me at New York city, (Manhattan,) N. Y., 55 this first day of May, 1907.

OTTO SELG.

Witnesses:

WILLIAM SCHULZ,
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