No. 886,548. PATENTED MAY 5, 1908.

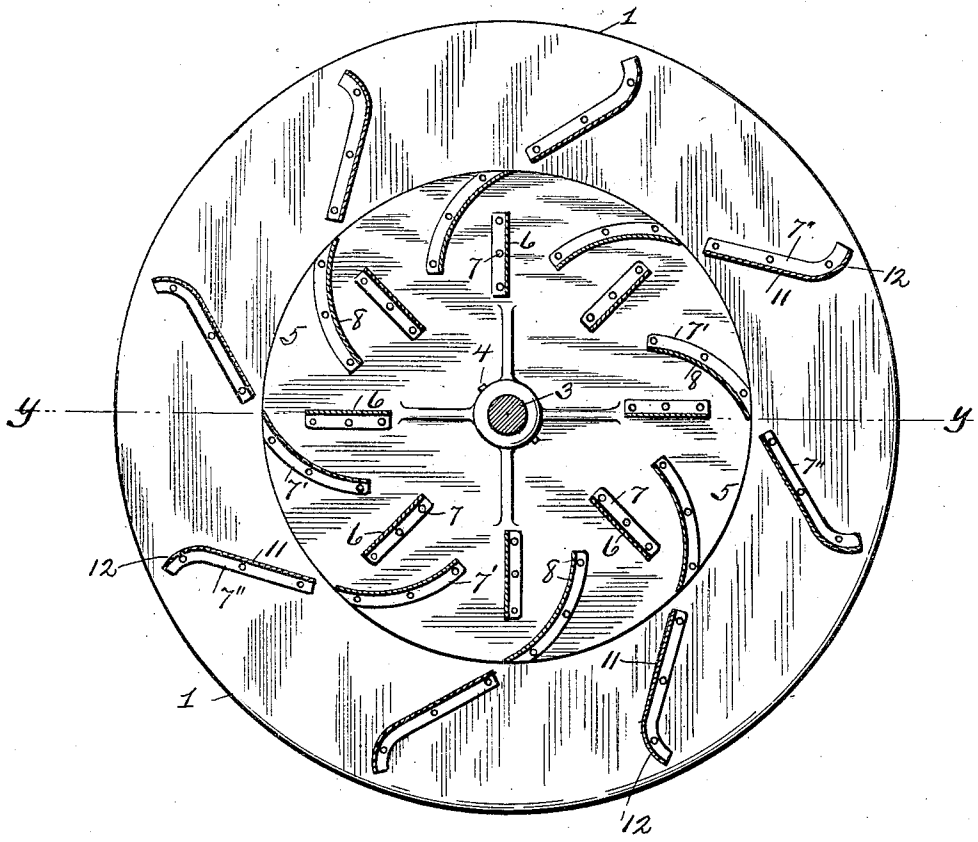
W. SNEE.

POWER MOTOR.

APPLICATION FILED JUNE 7, 1907.

2 SHEETS—SHEET 1.

Fig. 1



Witnesses:
Wm. G. Walter
E. Kerrigan

Inventor:
William Snee.
by his Attorney.
H. E. Harrison.

No. 886,548. PATENTED MAY 5, 1908.

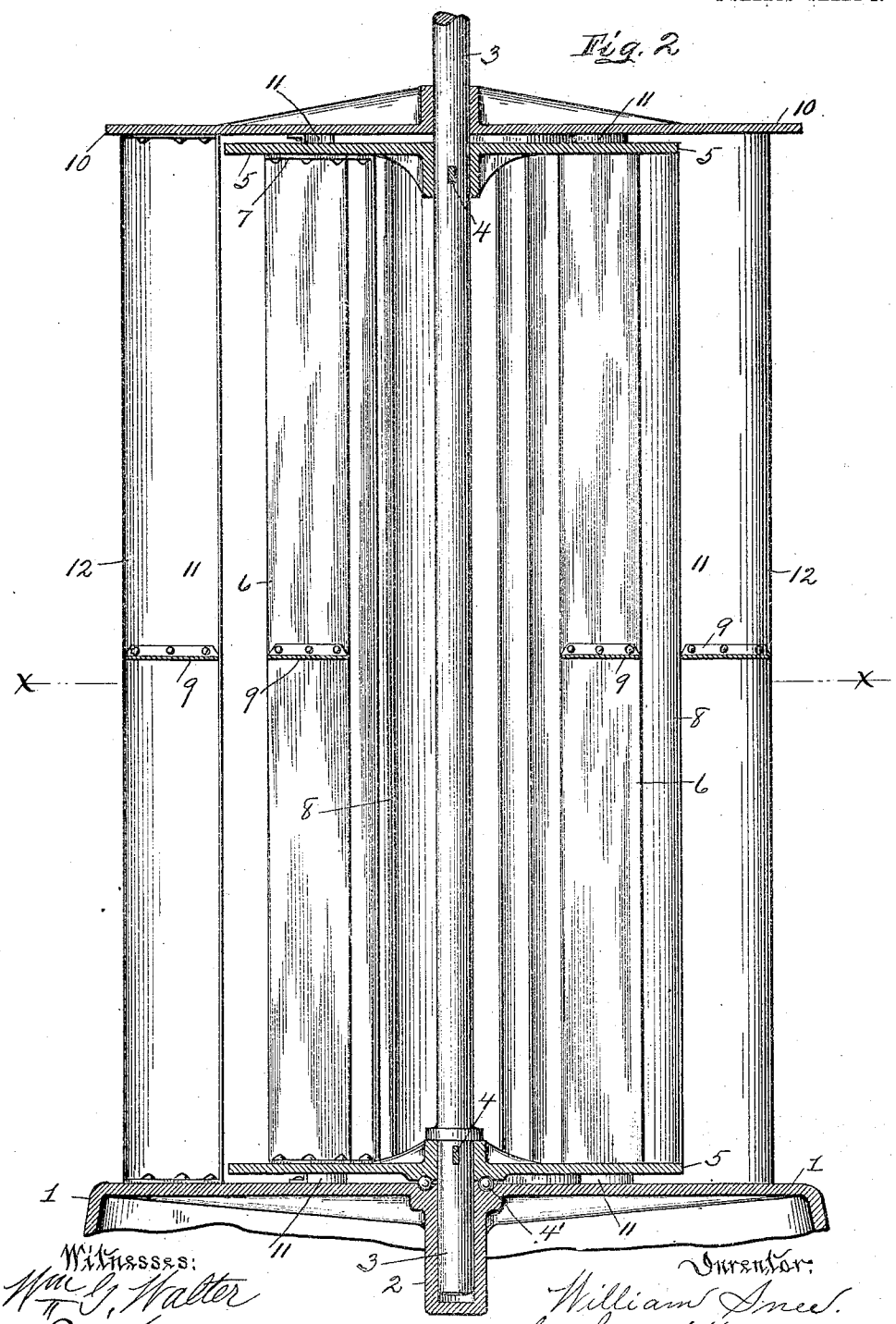
W. SNEE.

POWER MOTOR.

APPLICATION FILED JUNE 7, 1907.

2 SHEETS—SHEET 2.

Fig. 2.



Witnesses:
Wm. G. Walter
E. J. Corrigan

Inventor:
William Snee.
by his Attorney,
K. E. Harrison.

UNITED STATES PATENT OFFICE.

WILLIAM SNEE, OF WEST ELIZABETH, PENNSYLVANIA, ASSIGNOR TO JOHN A. SNEE, OF WEST ELIZABETH, PENNSYLVANIA.

POWER-MOTOR.

No. 886,548. Specification of Letters Patent. Patented May 5, 1908.

Application filed June 7, 1907. Serial No. 377,742.

To all whom it may concern:

Be it known that I, WILLIAM SNEE, a citizen of the United States, residing at West Elizabeth, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Power-Motors; and I do 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 use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to an improved power motor; and it comprises a series of vertically-arranged deflecting-blades arranged at regular intervals about a circle, each of said blades being tangent to an inscribed circle, a rotary wheel arranged within the circle of the deflecting blades, said wheel having a plurality of series of propeller-blades, the inner series arranged radially and the outer at an angle and intermediate thereof, to direct the motive power approximately at right angles toward said radial blades; and the invention further consists in the certain details of construction and combination of parts as will be fully described hereinafter.

The object of this present invention is to provide a power motor that may be operated by water or air currents, or by the undulated motion of the waves of the sea, or any regular or irregular currents of wind or water.

In the accompanying drawings;—Figure 1 is a sectional plan view of my improved power motor, the said section being taken on the line x, x, of Fig. 2. Fig. 2 is a central sectional elevation of the same, the section being taken on the line y, y, of Fig. 1.

To put my invention into practice, I form from cast metal, or other suitable material, a bed plate 1, preferably annular in form and of a suitable size and form of construction, the said bed plate having at its center, a bearing 2, for the reception of the lower end of a vertically-arranged shaft 3, carrying a rotatable power wheel of peculiar construction, the said wheel resting upon ball bearings 4′ to reduce the friction on the parts. This rotatable power or propelling wheel consists of a plurality of series of vertically-arranged blades, the one, or inner set 6 placed in radial form at regular intervals about a circle, and the outer series 8, (which are preferably dished or curved in cross section) intermediate and extending beyond the periphery or outer edges of said inner series, each blade of which is adapted to deflect the motive power toward and against the inner blades 6, at approximately right angles. These blades 6 and 8, are attached at the top and bottom to two disks or plates 5, by rivets passing through flanges 7 and 7′, the said plates being securely attached to the central shaft 3, by keys 4 passing through hubs formed integral with said plates.

Attached to the bed plate 2 and to another plate 10, of similar form and located above the inner rotatable wheel, are a series of stationary deflecting blades 11, placed at regular intervals about a circle, said blades being of flat metal, dished or curved in cross section at their outer edges, and arranged similar to those 8, of the propeller—that is, approximately tangent to an inscribed circle. These deflecting blades 11 may be of the same or a greater or less number of those of the propeller wheel. The inner edges of these stationary deflecting-blades 11 are slightly removed from those (8) of the propeller, in such manner that the latter may be free to revolve. These outer deflecting-blades 11 are attached to the bed plate 1, and top plate 10, by means of rivets passing through flanges 7″ formed integral (or otherwise) with said blades.

If it is desired to use the motor in air currents, the apparatus is placed in an exposed position, where the wind or air currents may have free access thereto; or if it is desired to operate the motor with water currents or wave undulation, the apparatus is partly or altogether submerged in the water.

The propelling power entering the wide openings between the deflecting-blades 11 is directed against the radial blades 6, at approximately right angles to the same. The said motive power may enter the apparatus from any direction, and by reason of the angle of inclination of the deflectors 11 and 8, the power will exert itself on the propelling-blades when both filling in and emptying from the apparatus, or from an undulating volume of water, or from pulsating action of either air or water.

Various slight modifications and changes may be made in the details of construction without departing from the spirit of the invention. Therefore I do not wish to confine

myself to the exact construction shown and described, but wish to claim all such modified forms as would come properly within the general scope of the invention.

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

1. A power motor, comprising an inner rotatable wheel having a series of radially-disposed propeller-blades, a series of intermediate deflecting-blades projecting between the radially-disposed propeller-blades and arranged to direct the motive power toward the same, in combination with a series of stationary deflecting-blades arranged tangent to an inscribed circle.

2. A power motor, comprising an inner rotatable wheel having a series of radially-disposed propeller-blades, a series of intermediate deflecting-blades projecting between and beyond the outer periphery of the radially-disposed propeller-blades and arranged to direct the motive power toward the same, in combination with a series of stationary deflecting-blades arranged tangent to an inscribed circle.

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

WILLIAM SNEE.

Witnesses:
WM. G. WALTER,
F. J. KERRIGAN.