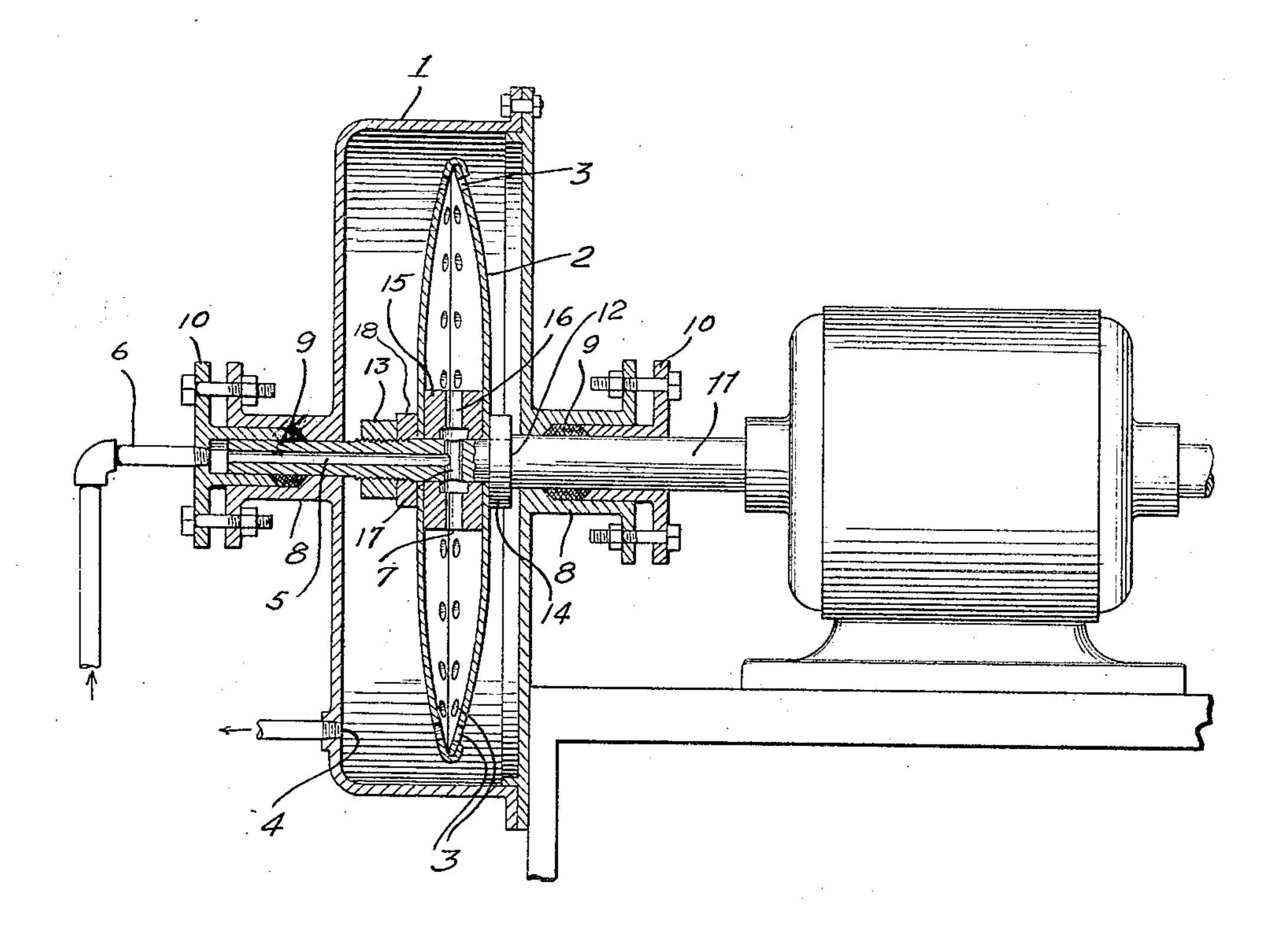
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BLOWER

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BLOWER.

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1924.

which represents a central transverse section chine.

of my improved device. Referring to the drawing, the improved hereinabove described has been successfully 20 shown in the present embodiment as a hollow—were mounted to operate at the same speed 25 adjacent to the periphery of the rotor 2 or at measure of the specific gravity of the gas. 30 the rotor through a conduit 5 in shaft 11 blower of the type hereinabove described having an opening 6 outside of the casing may advantageously be applied to other uses. 1 and an opening 7 inside the rotor 2 and Having thus described my invention, 85 communicating with the interior thereof and what I claim as new and desire to secure by with the outlets 3. Packing 9 surrounding Letters Patent is:

40 the rotor being spaced from the shoulder 12 clined toward each other and with portions 45 communicating with transverse passages 17 ing a conduit positioned to afford comin the shaft 11 which in turn communicates munication between the recess in said holwith longitudinal conduit 6 therein. A low shaft and the interior of the blower. spacer 18 is interposed between an outer In testimony whereof, I have signed my dished members forming the walls of the March, 1927. rotor are joined at or near their peripheries in any suitable manner as by crimping, welding or the like.

The present invention relates to an im- In operation, if it is desired to compress provement in blowers, one object being to air for example, it will be admitted through 55 provide a device of this general character the conduit 5 into the interior of the rotor 2. which can be utilized for the compression The latter will rotate at the required speed 5 of fluids such as gases, air and the like, with and, by operation of centrifugal force, the a minimum of heat and turbulence. This air therein will be discharged through the application is a division of my pending ap-outlet openings 3 into the casing 1 thereby 60 plication, Serial No. 716,223, filed May 27, building up pressure therein. Both the inlet conduit and the outlet opening of the An embodiment of my invention is illus- casing will be controlled by valves or other trated in the drawing accompanying the suitable devices, depending on the results depresent specification, the single figure of sired in connection with the use of the ma- 65

One use to which a blower of the type blower comprises a casing 1 and a rotatable applied is in connection with a specific member 2 mounted therein on a shaft 11 ro-gravity determining apparatus in which it 70 tatable by a motor or other suitable means was desired to measure directly the specific in bearings 8, said rotatable member being gravity of a gas. In this device two blowers rotor composed of co-operating dished side and in such a way with respect to other inmembers provided with outlet openings 3 strumentalities that the pressure developed 75 arranged adjacent to the periphery thereof. by the gas blower divided by the pressure The casing 1 also has an outlet 4 preferably developed by the air blower would be a a point or place in the wall of the casing 1 In such an instrument, it is desirable for where a predetermined pressure is effected obvious reasons to obtain the gas and air so by operation of the rotor. The gas or other pressures with a minimum of turbulence and fluid to be compressed is introduced into heat in the blower. It is believed that a

said shaft is held in place by caps 10. A rotor for blowers and the like, compris-The rotor 2 is secured on shaft 11 by any ing a hollow shaft, a pair of opposed wall suitable means such as a shoulder 12 at one forming members mounted thereon and pro- 90 side of the rotor and a nut 13 at the other vided with peirpheral openings and arside and threaded on said shaft, one side of ranged with their peripheral edges inby a spacing member 14. The walls or of the peripheral edge of one wall overlapdished side members of the rotor are main- ping and bent down over the peripheral 95 tained in spaced relation by a centrally po- edge of said other wall, and a spacer censitioned spacer 15 provided with passages 16 trally disposed between said walls and hav-

portion of the rotor 2 and the nut 13. The name to this specification this 2nd day of

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