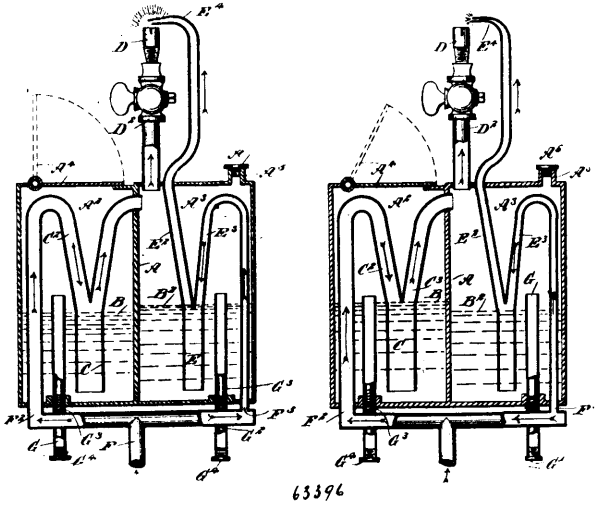


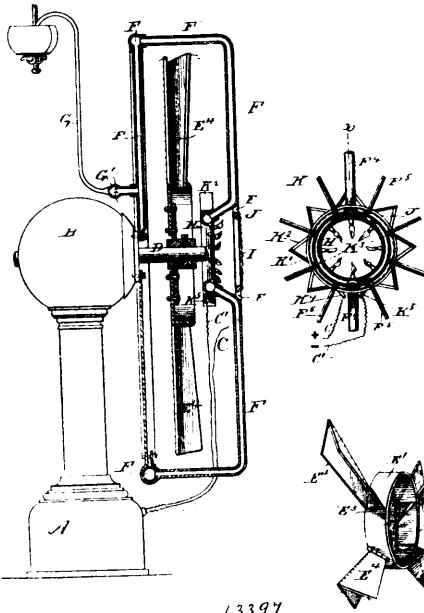
sealing agent or liquid, and such chamber having at each of its ends a bifurcated or Y-shaped tubular formation whose branches at their



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junction provide means whereby a passage is opened for or against the gas current by the utilization of pressure, substantially as and for the purposes herein described and set forth.

**No. 63,397. Apparatus for Heating and Agitating Air.**  
(Appareil à chauffer et agiter l'air.)



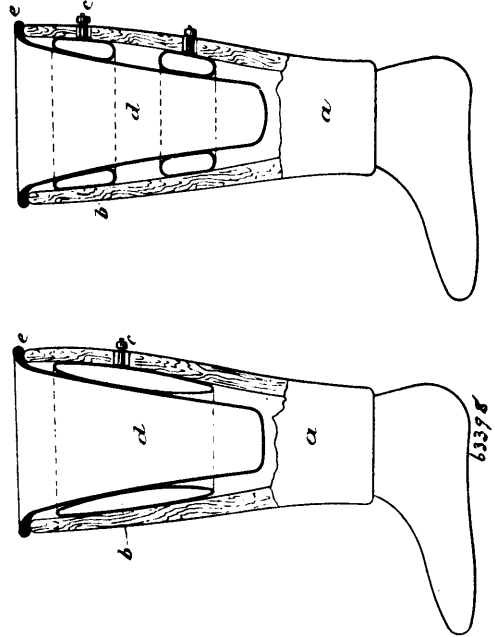
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The Bay State Electric Heat and Light Company, Jersey City, New Jersey, assignee of Edwin F. Porter, Boston, Massachusetts, U.S.A., 7th July, 1899; 6 years. (Filed 5th March, 1898.)

*Claims.*—1st. An air heating and diffusing apparatus, comprising a rotary fan, a burner of oil or gas opposite the centre of said fan, feed pipes or tubes from a source of supply of oil or gas to the burner, a thermo-electric generator connected to said burner, and an electric motor connected to said generator by a metallic circuit, whereby the burner heats the air and the thermo-electric generator causes the motor to rotate the fan, substantially as set forth. 2nd. An apparatus of the character described, comprising a rotary fan, a burner of gas or oil offset from the centre of the fan, a thermo-electric generator energized by heat from said burner, an electric motor, and a metallic circuit connecting the generator and motor, as and for the purpose set forth. 3rd. An apparatus for heating and diffusing air, comprising a rotary fan, a burner offset from the centre of said fan, pipes or tubes forming a protecting guard to the fan and supplying the burner with gas or oil from a source of supply, and a motor rotating the fan from a source of electric energy, as set forth. 4th. An apparatus for heating and diffusing air, comprising a rotary fan having a hub formed by a flat ring closed at the inner end, said ring having triangular apertures, and V-shaped fan blades

connected to said ring to partially enclose the apertures, a burner opposite to said ring, feed tubes to said burner from a source of supply of gas or oil, a thermo-electric generator connected to said burner, and an electric motor connected to the generator by metallic conductors, as set forth.

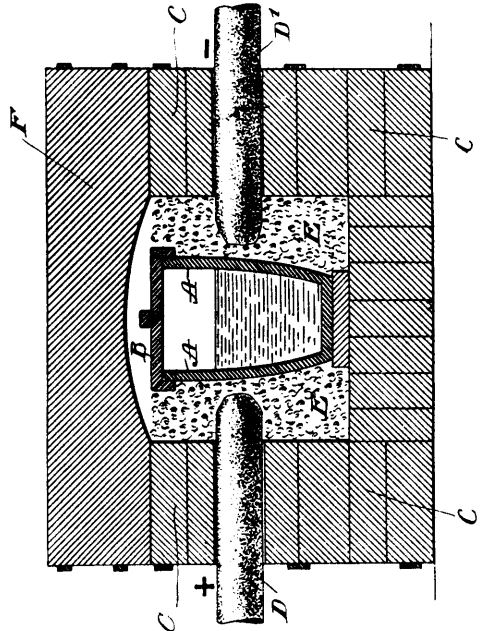
**No. 63,398. Artificial Leg.** (*Jambe artificielle.*)



Niels Faarup, Elsinore, and Paul Christensen, Copenhagen, both in Denmark, 7th July, 1899; 6 years. (Filed 9th September, 1898.)

*Claim.*—1st. In artificial legs, the arrangement of an annular air chamber or tire *b* inside the covering *a* intended to hold the leg, which chamber can be inflated thus lying close around the leg stump and making any further securing unnecessary. 2nd. In artificial legs, the arrangement of the suspension bag inside the excavation for the natural leg into which bag the leg stump is kept in suspended state.

**No. 63,399. Alloy of Titanium.** (*Alliage de titanium.*)



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August Jacques Rossi, James MacNaughton and Walter Dunnaux Edmonds, all of New York City, U.S.A., 7th July, 1899; 6 years. (Filed 23rd August, 1898.)