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(71) Applicant (for all designated States except US): **WIND-FUEL MILLS PTY LTD** [AU/AU]; Suite 703, 37 Pitt Street, Sydney, NSW 2000 (AU).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **LLOYD, Robert** [AU/AU]; 7 Karalee Road, Galston, NSW 2159 (AU).

(74) Agent: **SPRUSON & FERGUSON**; GPO Box 3898, Sydney, NSW 2001 (AU).

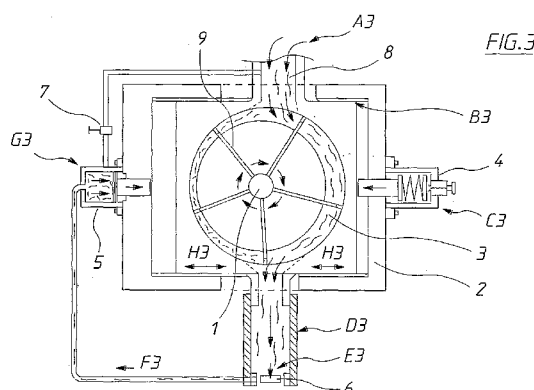
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(54) Title: GENERATION AND USE OF HIGH PRESSURE AIR



(57) Abstract: The invention provides a device for generating high pressure air. The device comprises a block having an external surface and an internal surface, said internal surface defining an internal cavity in said block. A rotor located inside said cavity is capable of rotating about under the influence of wind energy. The block is capable of moving relative to the rotor in a direction orthogonal to the axis of rotation of the rotor so as to vary the position of the rotor within the cavity. A plurality of vanes extend from the rotor, and are coupled to the rotor in such a manner that, in every position that the block is capable of adopting relative to the rotor, the rotor is capable of rotating within the cavity while maintaining a seal between each vane and the internal surface of the block. There is a gas inlet channel and a gas outlet channel on an opposite side of the block to the gas inlet channel. The device also comprises a position controller for causing the block to move relative to the rotor so as to vary the position of the rotor within the cavity.