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(74) Agents: **ADAMS, Matthew, D.** et al.; A J Park, 6th Floor
Huddart Parker Building, PO Box 949, 6015 Wellington
(NZ).

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(71) Applicant (for all designated States except US): **FISHER
& PAYKEL APPLIANCES LIMITED** [NZ/NZ]; 78
Springs Road, East Tamaki, 1701 Auckland (NZ).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MCGILL, Ian,**
Campbell [NZ/NZ]; 88 Kohimarama Road, Kohimarama,
1005 Auckland (NZ). **TIAN, Zhuang** [NZ/NZ]; 11 Astoria
Place, 1705 Auckland (NZ).

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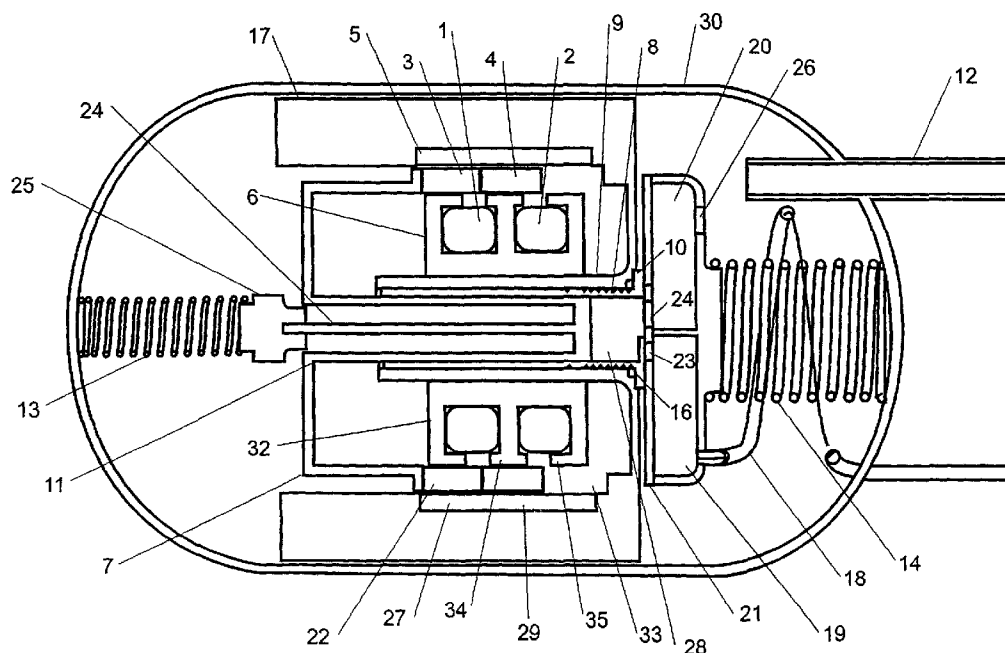
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(54) Title: LINEAR MOTOR CONTROLLER



(57) Abstract: A free piston gas compressor comprising a cylinder (9), a piston (11) reciprocable within the cylinder (9) and a reciprocating linear electric motor derivably coupled to the piston having at least one excitation winding (1, 2). A measure of the reciprocation time of the piston (11) is obtained, any change in the reciprocation time is detected and the power input to said excitation winding (1, 2) is adjusted in response to any detected change in reciprocation time.



WO 03/044365 A1



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