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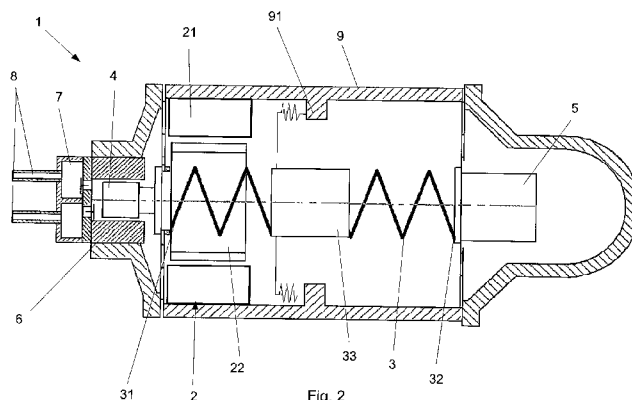
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(54) Title: LINEAR COMPRESSOR



(57) Abstract: The present invention refers to a linear compressor based on resonant oscillating mechanism, which comprises an oscillating arrangement essentially formed by at least one linear motor (2) defined by a movable portion (22) and a fixed portion (21), at least a resonance spring (3), at least one piston (4) and at least one balancing body (5), wherein the movable portion (22) of the linear motor (2) is cooperatively associated with the piston (4), defining a piston - motor assembly. The piston - motor assembly is operatively associated to the end (31) of the resonant spring (3) and at least one balancing body (5) is functionally associated with the end (32) of the resonant spring (3). This construction allows the attenuation of the vibration that the resonant oscillating mechanism applies to the compressor housing through the cancellation of the forces generated by the motor and the forces generated by the compression of gas in the cylinder.