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QUIET FAN

Title (de)
LEISES GEBLÄSE

Title (fr)
VENTILATEUR SILENCIEUX

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Abstract (en)
[origin: WO2009015469A2] The invention illustrates the assembly of a fan structure comprising a transmission shaft to each end of the shaft of which a ball bearing is fitted. In addition, a spring is incorporated between these two components, between the rotor and the stator, stabilizing the centrifugal force in order to achieve better rotational dynamic balancing on the propulsion of its axis. In fact, with this type of assembly it is possible greatly to reduce the bowing-related problems that are encountered in later-model standard assemblies in which a fan impeller is attached to one end of the driving shaft thus accentuating the problems due to loadings that may exceed the elastic limit of the materials used thus introducing irreparable mechanical deformation.

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