

Title (en)
SOLID STATE BLOWER

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Application
EP 80901052 A 19801117

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Abstract (en)
[origin: WO8002445A1] A pumping device for gases or liquids having a housing and a substantially planar resilient impeller mounted to the housing to be free to move perpendicular to the impeller plane. Apparatus for driving the impeller and acting at least one point in the impeller is provided which acts to propagate a travelling flexure wave along the impeller in the plane of the impeller to pump gas or liquid. In the preferred embodiment of the invention, the impeller is an elongated blade (18) and is driven by a piezoelectric bending element (28) movable back and forth by a controlled alternating voltage power supply (39). The blade or diaphragm may be contained in a channel or duct, so that the undulating motion of the blade against the walls of the duct act as a valving means.

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