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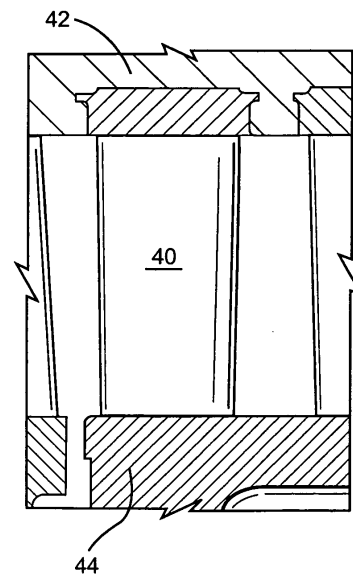
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(54) **Stator vane with inner and outer shroud**

(57) Vibration induced compressor vane failure from tip leakage vortex bursting is eliminated or minimized. By securing the vane at opposite ends to inner and outer stationary casings (44, 42), tip leakage is entirely avoided hence avoiding the mechanism for inducing vibration. By contouring the inner surface of the flow path to converge the flow in a downstream direction with a cantilevered compressor vane having a vane tip spaced from the inner casing surface, airflow lift off is precluded or minimized maintaining the flow attached to the flowpath surfaces with consequent avoidance of tip vortex induced vibration.



**Fig. 3**

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Application Number  
EP 06 25 1185

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Place of search Munich		Date of completion of the search 21 April 2009	Examiner Teusch, Reinhold
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