

Title (en)
MINI FAN

Title (de)
MINILÜFTER

Title (fr)
MINI-VENTILATEUR

Publication
EP 1644642 B1 20120229 (DE)

Application
EP 04732097 A 20040511

Priority
• EP 2004005017 W 20040511
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Abstract (en)
[origin: US2006153677A1] A mini-fan has a drive motor having an external rotor (222) and an internal stator (244). The external rotor (222) is equipped with a rotor shaft (234) that has a necked down portion (258) in the region of its free end (235). The mini-fan (216) has a bearing tube (238) on whose outer side the internal stator (244) is mounted and in whose interior is arranged a bearing arrangement (236) in which the rotor shaft (234) is rotatably supported. A closure arrangement (262) serves to close off the bearing tube (238) in liquid-tight fashion at one end, and is equipped, in the region of the necked down portion (258) of the rotor shaft (234), with at least one resilient securing member (260) that engages into that necked down portion (258) and secures the rotor shaft (234) against being pulled out of the bearing arrangement (236).

IPC 8 full level
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CPC (source: EP US)
F04D 25/062 (2013.01 - EP US); **F04D 29/057** (2013.01 - EP US); **F04D 29/063** (2013.01 - EP US); **F04D 29/646** (2013.01 - EP US)

Cited by
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US 2006153677 A1 20060713; US 8915721 B2 20141223; AT E547632 T1 20120315; DE 202004010890 U1 20040930;
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