

Title (en)

Fan guard having channel to direct cooling air to a piston cylinder

Title (de)

Gebläseschutzvorrichtung mit Kanal zum Lenken von Kühlluft zu einem Kolben-Zylinder

Title (fr)

Grille de protection avec canal pour guider l'air de refroidissement vers un cylindre de piston

Publication

EP 1657440 A1 20060517 (EN)

Application

EP 05023696 A 20051028

Priority

US 98675204 A 20041112

Abstract (en)

A pump includes a housing, a shaft supported by the housing, a piston assembly, a fan blade, and a fan guard. The piston assembly includes a piston cylinder and is operably coupled to the shaft. The fan blade is operable to generate cooling flow. The fan guard is mounted to the housing and includes a channel configured to direct at least a first portion of the cooling flow to the piston cylinder.

IPC 8 full level

F04B 39/06 (2006.01)

CPC (source: EP US)

F04B 39/066 (2013.01 - EP US)

Citation (search report)

- [X] WO 0169083 A2 20010920 - THOMAS INDUSTRIES INC [US], et al
- [X] WO 0138743 A1 20010531 - THOMAS INDUSTRIES INC [US], et al
- [X] US 4186317 A 19800129 - SISK HOLLIS D [US]
- [A] US 2004217661 A1 20041104 - FRANK PETER L [US], et al

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CN107110136A; US10323629B2

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EP 05023696 A 20051028; CA 2523995 A 20051019; CN 200510120180 A 20051110; US 98675204 A 20041112