

Title (en)  
Compressor piston and process for producing the compressor piston

Title (de)  
Verdichterkolben und sein Herstellungsverfahren

Title (fr)  
Piston de compresseur et son procédé de fabrication

Publication  
**EP 1143143 A3 20021113 (EN)**

Application  
**EP 01108328 A 20010402**

Priority  
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Abstract (en)  
[origin: EP1143143A2] A hollow piston has an end wall that receives pressure in a cylinder bore of a compressor. A reinforcing protrusion is formed on the inner end face of the end wall. The contour of the protrusion, from the radially outside portion toward the radially inside portion, first approaches the outer end face and then departs from the outer end face. Therefore, the piston is light and strong. <IMAGE>

IPC 1-7  
**F04B 27/08**; **F04B 39/00**

IPC 8 full level  
**F04B 27/08** (2006.01)

CPC (source: EP KR US)  
**F04B 27/08** (2013.01 - KR); **F04B 27/0878** (2013.01 - EP US)

Citation (search report)  
• [X] CH 675455 A5 19900928 - BURCKHARDT AG MASCHF  
• [X] US 4829954 A 19890516 - MORGADO RALPH G [US]  
• [X] US 5878652 A 19990309 - KOTTKE RICHARD [DE]  
• [XA] US 1489180 A 19240401 - WEIDELY GEORGE A  
• [X] US 1772187 A 19300805 - MANNING WILLIAM H  
• [X] US 4350083 A 19820921 - GANNAWAY EDWIN L  
• [A] DE 4114985 A1 19921112 - BUEHLER AG [CH]  
• [A] US 4519436 A 19850528 - EBISAWA MASUO [JP], et al  
• [X] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 08 30 June 1998 (1998-06-30)

Cited by  
EP2990645A4; US10167855B2

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