

Title (en)

THERMALLY APPLIED COATING FOR PISTON RINGS, CONSISTING OF MECHANICALLY ALLOYED POWDERS

Title (de)

THERMISCH AUFGETRAGENE BESCHICHTUNG FÜR KOLBENRINGE AUS MECHANISCH LEGIERTEN PULVERN

Title (fr)

REVETEMENT APPLIQUE PAR VOIE THERMIQUE, DESTINE A DES SEGMENTS DE PISTON ET CONSTITUE DE POUDRES ALLIEES MECANIQUEMENT

Publication

**EP 1322794 A2 20030702 (DE)**

Application

**EP 01976101 A 20010817**

Priority

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- EP 0109514 W 20010817

Abstract (en)

[origin: WO0224970A2] The invention relates to a wear-resistant coating used for bearing surfaces and flanks of piston rings in internal combustion engines. The wear-resistant inventive coating is obtained by mechanically alloying powders which form a metallic matrix with hard material dispersoids and lubricant material dispersoids. The coating is then thermally applied to the workpieces, especially by means of high velocity oxygen fuel spraying (HVOF). The workpieces coated are bearing surfaces and parts of flanks pertaining to piston rings in internal combustion engines.

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**C23C 4/06**

IPC 8 full level

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