

Title (en)

Component of an internal combustion engine with a tribological exposed element

Title (de)

Bauteil eines Verbrennungsmotors mit einem tribologisch beanspruchten Bauelement

Title (fr)

Composant d'un moteur à combustion interne avec un élément soumis tribologiquement

Publication

EP 1387082 A3 20050921 (DE)

Application

EP 03007079 A 20030328

Priority

DE 10234588 A 20020730

Abstract (en)

[origin: EP1387082A2] Injection system or injection valve of a combustion engine comprises a tribological stressed component (10), especially an injection needle, having a surface region (12) which moves relative to a counter body (11) and is provided with an inorganic hard material coating (14).

IPC 1-7

F02M 61/16; F02M 61/18; F02M 61/12; F01L 3/04; C23C 16/34; C23C 16/513; C23C 14/06; C23C 16/02

IPC 8 full level

F02M 61/16 (2006.01)

CPC (source: EP US)

F02M 61/166 (2013.01 - EP US); **F02M 2200/02** (2013.01 - EP US); **F02M 2200/9038** (2013.01 - EP US)

Citation (search report)

- [XY] DE 10038954 A1 20020228 - SIEMENS AG [DE]
- [Y] EP 0504441 A1 19920923 - HITACHI LTD [JP]
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Cited by

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT SE SI SK TR

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