

Title (en)

Coolable coating

Title (de)

Kühlbares Schichtsystem

Title (fr)

Revêtement refroidissable

Publication

**EP 1462613 A1 20040929 (DE)**

Application

**EP 03006962 A 20030326**

Priority

EP 03006962 A 20030326

Abstract (en)

The coolable coating system (1) consisting of a coating on a base uses cooling passages (10) which are least partially adjoin the coating. At least two cooling passages cross. The coolable coating system extends in a radial direction, and at least one cooling passage has an angle of 0 degrees in relation to the radial direction, an angle of 90 degrees, or an angle between 0 and 90 degrees to the radial direction. At least one cooling passage is located at least partially inside the coating.

Abstract (de)

Auch Schichtsysteme mit Schutzbeschichtungen für den Heissgaseinsatz müssen gekühlt werden. Jedoch ist die Kühlung vielfach nicht ausreichend, da die Kühlkanäle relativ weit von der Außenoberfläche des Schichtsystems entfernt angeordnet sind. Ein erfindungsgemäßes gekühltes Schichtsystem (1) weist Kühlkanäle (10) auf, die sich kreuzen. <IMAGE>

IPC 1-7

**F01D 5/28**; **F01D 5/18**

IPC 8 full level

**F01D 5/18** (2006.01); **F01D 5/28** (2006.01)

CPC (source: EP US)

**F01D 5/187** (2013.01 - EP US); **F01D 5/288** (2013.01 - EP US)

Citation (search report)

- [XA] GB 803650 A 19581029 - BIRMINGHAM SMALL ARMS CO LTD
- [X] US 2002141872 A1 20021003 - DAROLIA RAMGOPAL [US], et al
- [A] US 6214248 B1 20010410 - BROWNING JANEL KOCA [US], et al
- [A] US 2641439 A 19530609 - WILLIAMS SAMUEL B
- [A] EP 1215183 A1 20020619 - UNITED TECHNOLOGIES CORP [US]

Cited by

EP3179039A1; EP3179043A1; EP2431572A1; US10731483B2; DE102011055246B4; WO2013143886A1; US7744348B2; US8210815B2

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