Title (en)

Mobile sealing body of a valve exposed to hot gasses

Title (de)

Beweglicher, heißen Gasen ausgesetzter Verschlusskörper eines Ventiles

Title (fr)

Corps de fermeture d'une soupape amovible et exposé à des gaz chauds

Publication

## EP 2182183 B1 20161214 (DE)

Application EP 09

## EP 09172918 A 20091013

Priority

DE 102008054266 A 20081031

Abstract (en)

[origin: EP2182183A1] The portable sealing body comprises a sealing area subjecting on a valve seat ring. The sealing body exposes hot gases. A surface area of the sealing body consists of first and second materials (1, 2) directly on the sealing area of the body. The second material possesses a high heat conductivity against the first material. The second material is subjected by a thermal spraying method such as melt-bath spraying, arc spraying process, plasma spraying, and flame spraying (powder flame spraying, wire flame spraying, plastic flame spraying and high speed flame spraying). The portable sealing body comprises a sealing area subjecting on a valve seat ring. The sealing body exposes hot gases. A surface area of the sealing body consists of first and second materials (1, 2) directly on the sealing area of the body. The second material possesses a high heat conductivity against the first material. The second material is subjected by a thermal spraying method such as melt-bath spraying, arc spraying, plastic flame spraying body consists of first and second material is subjected by a thermal spraying method such as melt-bath spraying, arc spraying process, plasma spraying, flame spraying (powder flame spraying, wire flame spraying method such as melt-bath spraying, arc spraying process, plasma spraying, flame spraying (powder flame spraying, wire flame spraying, plastic flame spraying and high speed flame spraying), edetonation spraying (flame shock spraying), cold gas spraying, and laser spraying. No second material is available in the sealing area in which the valve seat the valve seat. An adhesion layer is arranged between the first and the second materials and consists of nickel and/or aluminum. The adhesion layer has a thickness of 100 mu m. The second material covers itself under connection of the sealing area in which the sealing body contacts the valve seat ring. The second material consists of nickel and has a thickness of 100 mu m.

IPC 8 full level

F01L 3/04 (2006.01)

CPC (source: EP US)

F01L 3/04 (2013.01 - EP US)

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DE102012216929A1; CN112430811A; DE102012216929B4

Designated contracting state (EPC)

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DOCDB simple family (publication)

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