

Title (en)

OUTLET VALVE ON A RECIPROCATING ENGINE

Title (de)

AUSLASSVENTIL AN EINEM HUBKOLBENMOTOR

Title (fr)

SOUPAPE D'ÉCHAPPEMENT POUR UN MOTEUR À PISTON ALTERNATIF

Publication

**EP 2276913 B1 20111109 (DE)**

Application

**EP 09732571 A 20090408**

Priority

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- DE 102008018875 A 20080414

Abstract (en)

[origin: WO2009127348A1] An outlet valve on a reciprocating engine comprises a moveable valve body comprising a valve shaft and valve plate, said plate having a ring shaped seat region made of a first alloy that is different from a second alloy forming the base body of the valve plate in the form of a nickel based alloy. The first alloy is made of a nickel or cobalt based alloy, having a higher abrasion resistance compared to the second alloy. A region of the valve plate (3) forming the plate bottom (5) is formed by a third alloy and a circumferential region directly proximate thereto is formed by a fourth alloy, each of said alloys being made of a nickel-based alloy with a high resistance against hot gas corrosion. An edge region of the valve plate (3) proximate to the circumferential region comprises a fifth alloy, also a nickel based alloy with high corrosion resistance, extending underneath the seating region (4) and lining the seat region completely.

IPC 8 full level

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