

Title (en)

ALLOY WITH ION BOMBARDED SURFACE FOR ENVIRONMENTAL PROTECTION

Title (de)

LEGIERUNG MIT IONENBESCHOSSENER OBERFLÄCHE FÜR UMWELTSCHUTZ

Title (fr)

ALLIAGE À SURFACE TRAITÉE PAR BOMBARDEMENT IONIQUE POUR PROTECTION ENVIRONNEMENTALE

Publication

EP 2619345 B1 20190220 (EN)

Application

EP 11764922 A 20110922

Priority

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- US 2011052790 W 20110922

Abstract (en)

[origin: WO2012040484A2] An article may include a substrate that comprises a nickel alloy. The substrate may include a modified subsurface region and a bulk region. The modified subsurface region may include a first composition and the bulk region may include a second composition different than the first composition. The modified subsurface region may include at least one of a reactive element or a noble metal, and the modified subsurface region comprises a thickness of less than about 0.3 μm measured in a direction substantially normal to a surface of the substrate. The modified subsurface region may be formed by depositing a layer including at least one of the reactive element or the noble metal in a layer on a surface of the substrate and introducing the at least one of the reactive element or the noble metal into the modified subsurface region using ion bombardment.

IPC 8 full level

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CPC (source: EP US)

C22F 1/10 (2013.01 - US); **C23C 26/00** (2013.01 - US); **C23C 28/02** (2013.01 - EP US); **C23C 28/023** (2013.01 - EP US); **C23C 30/00** (2013.01 - EP US); **Y10T 428/12611** (2015.01 - EP US); **Y10T 428/12944** (2015.01 - EP US)

Citation (examination)

US 2006127695 A1 20060615 - GLEESON BRIAN [US], et al

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