

Title (en)

Electrolyte composition and method for the electropolishing treatment of Nickel-Titanium alloys and/or other metal substrates including tungsten, niob and tantal alloys

Title (de)

Elektrolytzusammensetzung und Verfahren zur Elektropolierbehandlung von Nickel-Titan-Legierungen und/oder anderen Metallsubstraten mit Wolfram-, Niob- und Tantallegierungen

Title (fr)

Composition électrolytique et procédé pour le traitement de polissage électrolytique d'alliages de nickel-titane et/ou d'autres substrats métalliques comprenant des alliages de tungstène, niobate et tantale

Publication

**EP 2878713 A1 20150603 (EN)**

Application

**EP 13005538 A 20131128**

Priority

EP 13005538 A 20131128

Abstract (en)

The present invention relates to an electrolyte composition and an electropolishing method in the presence of said composition, which is directed towards the surface treatment of medical devices. The electrolyte composition comprises methanesulfonic acid and a surface selective (anode specific) masking agent. The medical devices in question are formed from high-strength medical grade alloys, wherein the metals comprising said alloys are selected from a group of Nickel, Titanium, Cobalt, Chromium, Tantalum, Niobium, Tungsten, and whereas said alloys may contain one or more of said metals.

IPC 8 full level

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CPC (source: EP)

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Citation (applicant)

S. A. SHABALOVSKAYA: "Surface, corrosion and biocompatibility aspects of Nitinol as an implant material", BIO-MED. MATER. ENG., vol. 12, 2002, pages 69 - 109, XP002331496

Citation (search report)

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Designated contracting state (EPC)

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