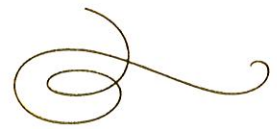


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The Director

of the United States Patent and Trademark Office has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this United States

Patent

grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America, and if the invention is a process, of the right to exclude others from using, offering for sale or selling throughout the United States of America, products made by that process, for the term set forth in 35 U.S.C. 154(a)(2) or (c)(1), subject to the payment of maintenance fees as provided by 35 U.S.C. 41(b). See the Maintenance Fee Notice on the inside of the cover.

Andres Ibarra

DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE



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(12) **United States Patent**
Montinaro et al.

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(54) **METHOD FOR DEPOSITING LAYER OF CERAMIC MATERIAL ONTO A METALLIC SUPPORT FOR SOLID OXIDE FUEL CELLS**

(52) **U.S. Cl.**
CPC *H01M 4/8853* (2013.01); *C25D 9/08* (2013.01); *C25D 21/12* (2013.01); *H01M 8/1226* (2013.01); *H01M 2004/8684* (2013.01)

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(58) **Field of Classification Search**
CPC H01M 8/1226; H01M 4/8853; C25D 9/08; C25D 21/12

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(73) Assignee: **SOFCPOWER S.P.A.**, Mezzolombardo (Trento) (IT)

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 61 days.

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(21) Appl. No.: **14/911,637**

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(86) PCT No.: **PCT/IB2014/063901**

§ 371 (c)(1),
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(57) **ABSTRACT**

(65) **Prior Publication Data**

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A method for depositing a layer of material on a metallic support for fuel cells or electrolysis cells includes the steps of preparing the surface of the metallic support, preparing an apparatus for an electrolytic bath, with the relative actuation means of the apparatus, including an aqueous solution with the cations necessary to obtain at least one material, dipping the metallic support into the electrolytic bath, and commanding the actuation means of the electrolytic bath so as to selectively carry out the electrochemical deposition of at least one layer of material on the metallic support, the layer of material includes an anti-corrosion protective ceramic material and/or a ceramic material with catalytic properties.

(30) **Foreign Application Priority Data**

Aug. 13, 2013 (IT) VR2013A0200

9 Claims, 2 Drawing Sheets

(51) **Int. Cl.**
H01M 4/88 (2006.01)
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(Continued)

