

Title (en)
COPPER POROUS BODY, COPPER POROUS COMPOSITE MEMBER, METHOD FOR PRODUCING COPPER POROUS BODY, AND METHOD FOR PRODUCING COPPER POROUS COMPOSITE MEMBER

Title (de)
PORÖSER KUPFERKÖRPER, PORÖSES KUPFERVERBUNDELEMENT, VERFAHREN ZUR HERSTELLUNG DES PORÖSEN KUPFERKÖRPERS UND VERFAHREN ZUR HERSTELLUNG DES PORÖSEN KUPFERVERBUNDELEMENTS

Title (fr)
CORPS POREUX EN CUIVRE, ÉLÉMENT COMPOSITE POREUX EN CUIVRE, PROCÉDÉ DE PRODUCTION DE CORPS POREUX EN CUIVRE, ET PROCÉDÉ DE PRODUCTION D'ÉLÉMENT COMPOSITE POREUX EN CUIVRE

Publication
EP 3450061 A4 20191002 (EN)

Application
EP 17789225 A 20170407

Priority
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• JP 2017014522 W 20170407

Abstract (en)
[origin: EP3450061A1] The porous copper body of the disclosure includes a skeleton having a three-dimensional network structure, in which a porosity is in a range of 50% to 90% and a porosity-normalized electrical conductivity $\tilde{\sigma}$ N which is defined by dividing a electrical conductivity of the porous copper body, measured by a 4-terminal sensing, by an apparent density ratio of the porous copper body is 20% IACS or higher.

IPC 8 full level
B22F 3/11 (2006.01); **B22F 1/062** (2022.01); **C22C 1/04** (2006.01); **C22C 9/00** (2006.01)

CPC (source: EP KR US)
B22F 3/11 (2013.01 - EP US); **B22F 3/1112** (2013.01 - KR); **B22F 3/1143** (2013.01 - EP KR US); **B22F 3/23** (2013.01 - US); **B22F 7/002** (2013.01 - KR); **B22F 9/20** (2013.01 - US); **B22F 1/062** (2022.01 - EP KR US); **B22F 7/062** (2013.01 - EP US); **B22F 7/08** (2013.01 - EP US); **B22F 2301/10** (2013.01 - KR); **B22F 2998/10** (2013.01 - EP US); **B22F 2999/00** (2013.01 - EP US); **C22C 1/0425** (2013.01 - EP US); **C22C 1/08** (2013.01 - EP US); **C22C 9/00** (2013.01 - EP US)

Citation (search report)
• [E] EP 3308883 A1 20180418 - MITSUBISHI MATERIALS CORP [JP]
• [E] EP 3308882 A1 20180418 - MITSUBISHI MATERIALS CORP [JP]
• [E] EP 3308884 A1 20180418 - MITSUBISHI MATERIALS CORP [JP]
• [E] EP 3210698 A1 20170830 - MITSUBISHI MATERIALS CORP [JP]
• [X] JP 2000192107 A 20000711 - KOGI CORP
• [X] EP 0721994 A2 19960717 - SUMITOMO ELECTRIC INDUSTRIES [JP]
• [A] TANG Y ET AL: "Feasibility study of porous copper fiber sintered felt: A novel porous flow field in proton exchange membrane fuel cells", INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, ELSEVIER SCIENCE PUBLISHERS B.V., BARKING, GB, vol. 35, no. 18, 1 September 2010 (2010-09-01), pages 9661 - 9677, XP027235624, ISSN: 0360-3199, [retrieved on 20100731]
• See references of WO 2017187938A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
EP 3450061 A1 20190306; **EP 3450061 A4 20191002**; CN 108602127 A 20180928; JP 2017197811 A 20171102; JP 6733286 B2 20200729; KR 20190002422 A 20190108; TW 201806751 A 20180301; US 2019076927 A1 20190314; WO 2017187938 A1 20171102

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EP 17789225 A 20170407; CN 201780008127 A 20170407; JP 2016089358 A 20160427; JP 2017014522 W 20170407; KR 20187023139 A 20170407; TW 106112787 A 20170417; US 201716081527 A 20170407