

Title (en)  
SINTERED ALLOY AND METHOD FOR PRODUCING SAME

Title (de)  
SINTERLEGIERUNG UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)  
ALLIAGE FRITTÉ ET PROCÉDÉ DE PRODUCTION

Publication  
**EP 3822379 B1 20220706 (EN)**

Application  
**EP 19834991 A 20190710**

Priority

- JP 2018131364 A 20180711
- JP 2019027344 W 20190710

Abstract (en)  
[origin: EP3822379A1] Provided is a sintered alloy, including, by mass, 13.86 to 27.72 % of Cr; 6.47 to 20.33 % of Ni; 0.85 to 11.05 % of Cu; 0.46 to 2.77 % of Si; 0.15 to 1.95 % of P; 0.2 to 1.0 % of C; and a remainder of Fe and an unavoidable elements as an overall composition; having a density of 6.8 to 7.4 Mg/m<sup>3</sup>; and having a metal structure containing an iron alloy matrix with a pore dispersed within the iron alloy matrix and a carbide dispersed in the iron alloy matrix, the iron alloy matrix having crystal grains with an average crystal particle size of 10 to 50 μm.

IPC 8 full level  
**C22C 33/02** (2006.01); **B22F 3/10** (2006.01); **B22F 3/11** (2006.01); **C22C 9/00** (2006.01); **C22C 38/00** (2006.01); **C22C 38/02** (2006.01); **C22C 38/42** (2006.01); **C22C 38/44** (2006.01); **C22C 38/46** (2006.01); **C22C 38/48** (2006.01); **C22C 38/50** (2006.01)

CPC (source: EP US)  
**B22F 3/1103** (2013.01 - EP); **C22C 9/00** (2013.01 - EP); **C22C 33/0285** (2013.01 - EP US); **C22C 38/002** (2013.01 - EP); **C22C 38/02** (2013.01 - EP); **C22C 38/40** (2013.01 - EP); **C22C 38/42** (2013.01 - EP); **C22C 38/44** (2013.01 - EP); **C22C 38/50** (2013.01 - EP); **B22F 2998/10** (2013.01 - EP); **B22F 2999/00** (2013.01 - EP)

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**EP 3822379 A1 20210519; EP 3822379 A4 20210825; EP 3822379 B1 20220706**; CN 112368409 A 20210212; CN 112368409 B 20220726; JP 7248027 B2 20230329; JP WO2020013227 A1 20210802; WO 2020013227 A1 20200116

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**EP 19834991 A 20190710**; CN 201980045440 A 20190710; JP 2019027344 W 20190710; JP 2020530226 A 20190710