

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/m³; 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)

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