

Title (en)
CHOKE FOR A POWER ELECTRONICS SYSTEM

Title (de)
DROSSEL FÜR LEISTUNGSELEKTRONIK

Title (fr)
BOBINE D'ARRÊT POUR UN SYSTÈME ÉLECTRONIQUE DE PUISSANCE

Publication
EP 4189713 A1 20230607 (DE)

Application
EP 21751794 A 20210728

Priority
• DE 102020120430 A 20200803
• EP 2021071141 W 20210728

Abstract (en)
[origin: WO2022028980A1] The invention relates to a choke for a power electronics system. The choke has an inductance in the region of 10 μ H to 2 mH and a current carrying capacity of 1 A or more. The choke comprises an amorphous core material (1) and at least one winding (6). The winding (6) is designed as an outer winding surrounding the amorphous core material (1) and made of copper or a copper alloy. The amorphous core material (1) has a saturation magnetostriction in the region of 10⁻⁷ and 10⁻⁵ and/or a static coercivity of max. 30 A/m.

IPC 8 full level
H01F 37/00 (2006.01); **H01F 1/153** (2006.01); **H01F 3/10** (2006.01); **H01F 3/14** (2006.01); **H01F 27/25** (2006.01); **H01F 27/28** (2006.01); **H01F 41/02** (2006.01)

CPC (source: EP)
H01F 1/15308 (2013.01); **H01F 3/14** (2013.01); **H01F 27/25** (2013.01); **H01F 27/2895** (2013.01); **H01F 37/00** (2013.01); **H01F 41/0226** (2013.01); **H01F 2003/103** (2013.01)

Citation (search report)
See references of WO 2022028980A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
DE 102020120430 A1 20220203; EP 4189713 A1 20230607; WO 2022028980 A1 20220210

DOCDB simple family (application)
DE 102020120430 A 20200803; EP 2021071141 W 20210728; EP 21751794 A 20210728