Title (en)

COMMON MODE CHOKE

Title (de)

GLEICHTAKTDROSSEL

Title (fr)

BOBINE D'ARRÊT EN MODE COMMUN

Publication

EP 4042458 A1 20220817 (DE)

Application

EP 20785719 A 20200930

Priority

- DE 102019215514 A 20191010
- EP 2020077281 W 20200930

Abstract (en)

[origin: WO2021069266A1] The invention relates to a common mode choke (1). The common mode choke (1) has a toroidal core (2), which is in particular magnetically permeable, and a coil. The common mode choke has at least one further coil, wherein the coil and the further coil are each arranged in the region of the toroidal core (2) in such a way that a magnetic flux passing through the coils can detect the toroidal core (2). According to the invention the toroidal core (2) surrounds a preferably cylindrical through-opening (4). For every turn of a coil each coil has at least one or only one electrical internal conductor (31-34), in particular a busbar, the internal conductor (31-34) being arranged in the through-opening (4). The internal conductors (31-34) arranged in the through-opening (4) together form a shape, preferably a cross-sectional shape, corresponding to the through-opening (4), so that together they fill the through-opening (4).

IPC 8 full level

H01F 27/28 (2006.01); **H01F 17/00** (2006.01); **H01F 17/06** (2006.01)

CPC (source: CN EP)

H01F 17/06 (2013.01 - EP); **H01F 17/062** (2013.01 - CN); **H01F 27/2823** (2013.01 - CN); **H01F 27/2847** (2013.01 - EP); **H01F 27/2895** (2013.01 - CN); **H01F 27/306** (2013.01 - CN); **H01F 27/36** (2013.01 - CN); H01F 2017/0093 (2013.01 - EP); H01F 2017/065 (2013.01 - EP); H01F 2017/067 (2013.01 - CN)

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

DOCDB simple family (publication)

DE 102019215514 A1 20210415; CN 114450763 A 20220506; EP 4042458 A1 20220817; WO 2021069266 A1 20210415

DOCDB simple family (application)

DE 102019215514 A 20191010; CN 202080070880 A 20200930; EP 2020077281 W 20200930; EP 20785719 A 20200930