

Title (en)  
COOLED ELECTRICAL ASSEMBLY COMPRISING CHOKE COIL

Title (de)  
GEKÜHLTE ELEKTRISCHE BAUGRUPPE MIT DROSSELSPULE

Title (fr)  
ENSEMBLE ÉLECTRIQUE REFROIDI COMPRENANT UNE BOBINE D'INDUCTION

Publication  
**EP 4145474 A1 20230308 (EN)**

Application  
**EP 21195266 A 20210907**

Priority  
EP 21195266 A 20210907

Abstract (en)  
A cooled electrical assembly comprising at least one choke coil (2) having a plurality of coil turns wound around a choke centre line, a liquid cooling element (4) adapted for cooling the at least one choke coil (2), the liquid cooling element (4) having a first cooling surface (41) that is in heat conducting connection with a first outer surface area (21) of the at least one choke coil (2). The cooled electrical assembly comprises at least one a heat conduction element (6) that is in heat conducting connection with the first cooling surface (41) of the liquid cooling element (4), and with a second outer surface area (22) of the at least one choke coil (2) located on an opposite side of the choke centre line than the first outer surface area (21).

IPC 8 full level  
**H01F 27/22** (2006.01); **H01F 27/28** (2006.01); **H05K 7/20** (2006.01)

CPC (source: EP)  
**H01F 27/22** (2013.01); **H01F 27/2876** (2013.01); **H01F 27/18** (2013.01)

Citation (search report)

- [XY] JP 2009194199 A 20090827 - SUMITOMO ELECTRIC INDUSTRIES
- [XY] JP 2009147041 A 20090702 - SUMITOMO ELECTRIC INDUSTRIES
- [Y] US 2008122566 A1 20080529 - TEGART DON A [CA]
- [Y] US 2013312930 A1 20131128 - YALAMANCHILI VENKAT [US], et al
- [Y] US 2018077792 A1 20180315 - HORIE TAKASHI [JP], et al

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)  
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