

Title (en)  
COOLED HIGH-CURRENT SYSTEM

Title (de)  
GEKÜHLTES HOCHSTROMSYSTEM

Title (fr)  
SYSTÈME À INTENSITÉ ÉLEVÉE REFROIDI

Publication  
**EP 4324079 A1 20240221 (DE)**

Application  
**EP 22722776 A 20220413**

Priority  
• DE 102021203801 A 20210416  
• EP 2022059950 W 20220413

Abstract (en)  
[origin: WO202219083A1] The invention relates to an electric drive comprising a cooled high-current system, wherein the electric drive comprises at least one electric machine and at least one converter with at least one energy system which is designed to supply the at least one electric machine with energy. The energy system comprises a busbar system which is coupled to a direct current power source in an electrically conductive manner, at least one capacitor which is coupled to the busbar system in an electrically conductive manner, at least one semiconductor switch which is coupled to the busbar system in an electrically conductive manner, and at least one phase connection which is coupled to the at least one semiconductor switch in an electrically conductive manner. At least one part of the at least one energy system is coupled to at least one part of the electric machine in a thermally conductive manner in order to dissipate heat from the at least one part of the at least one energy system.

IPC 8 full level  
**H02K 9/22** (2006.01); **H02K 11/00** (2016.01); **H02K 11/33** (2016.01)

CPC (source: EP US)  
**H02K 5/15** (2013.01 - US); **H02K 9/19** (2013.01 - US); **H02K 9/223** (2021.01 - EP); **H02K 9/227** (2021.01 - US); **H02K 11/0094** (2013.01 - EP); **H02K 11/33** (2016.01 - EP); **H02M 7/003** (2013.01 - US); **H05K 7/20927** (2013.01 - US); **H02K 2203/09** (2013.01 - EP)

Citation (search report)  
See references of WO 202219083A1

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Designated extension state (EPC)  
BA ME

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KH MA MD TN

DOCDB simple family (publication)  
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