

Title (en)  
AN ELECTRIC VEHICLE DC-DC BOOST CONVERTER

Title (de)  
BOOST-GLEICHSPANNUNGSWANDLER FÜR ELEKTROFAHRZEUG

Title (fr)  
CONVERTISSEUR ÉLÉVATEUR COURANT CONTINU-COURANT CONTINU DE VÉHICULE ÉLECTRIQUE

Publication  
**EP 3983256 A1 20220420 (EN)**

Application  
**EP 20822115 A 20200612**

Priority  
• AU 2019902046 A 20190612  
• AU 2020050599 W 20200612

Abstract (en)  
[origin: WO2020248023A1] Apparatus and method for charging an electric vehicle. A controller in a reconfigured second state for charging the electric vehicle, selectively couples at least one of the vehicle's charging port terminals to at least one of the connection points of the at least two drive circuits of the motor of the electric vehicle. The controller also controls at least one of the other of the at least two drive circuits to allow at least one of an inductive winding in a drive circuit to be energised to regulate at least one of a charging current or a charging voltage to a DC energy source such as a traction battery of the electric vehicle.

IPC 8 full level  
**B60L 50/50** (2019.01); **B60L 50/60** (2019.01); **B60L 53/10** (2019.01); **H02J 7/00** (2006.01); **H02M 3/155** (2006.01); **H02M 3/158** (2006.01)

CPC (source: AU EP KR)  
**B60L 50/60** (2019.01 - EP KR); **B60L 53/12** (2019.01 - KR); **B60L 53/122** (2019.01 - AU); **B60L 53/22** (2019.01 - EP);  
**B60L 53/24** (2019.01 - EP KR); **H02J 7/007** (2013.01 - EP KR); **H02J 7/2434** (2020.01 - AU KR); **H02J 50/10** (2016.02 - AU KR);  
**H02M 1/0095** (2021.05 - EP); **H02M 1/10** (2013.01 - EP); **H02M 3/158** (2013.01 - KR); **H02M 3/1584** (2013.01 - AU KR);  
**H02M 7/53871** (2013.01 - KR); **B60L 2210/14** (2013.01 - AU KR); **B60Y 2200/91** (2013.01 - KR); **H02J 7/14** (2013.01 - EP);  
**H02J 7/2437** (2020.01 - AU); **H02J 2207/20** (2020.01 - EP KR); **H02J 2310/48** (2020.01 - AU EP KR); **H02M 3/158** (2013.01 - EP);  
**H02M 7/53871** (2013.01 - EP); **Y02T 10/70** (2013.01 - KR); **Y02T 10/7072** (2013.01 - KR)

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)  
**WO 2020248023 A1 20201217**; EP 3983256 A1 20220420; EP 3983256 A4 20230315; KR 20220108759 A 20220803

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**AU 2020050599 W 20200612**; EP 20822115 A 20200612; KR 20227001174 A 20200612