

Title (en)  
ELECTRIC VEHICLE (EV) FAST RECHARGE STATION AND SYSTEM

Title (de)  
SCHNELLE AUFLADESTATION UND SYSTEM FÜR ELEKTROFAHRZEUG

Title (fr)  
STATION ET SYSTÈME DE RECHARGE RAPIDE DE VÉHICULE ÉLECTRIQUE (VE)

Publication  
**EP 4164918 A4 20240710 (EN)**

Application  
**EP 21852396 A 20210803**

Priority  
• US 202016984817 A 20200804  
• US 2021044321 W 20210803

Abstract (en)  
[origin: WO2022031689A1] Provided is an electric vehicle (EV) charging station for fast charging [e.g. 5 to 15 minutes] charging an electric vehicle (EV). The EV charging station can be configured to charge multiple EVs and multiple conventional fuel type vehicles at the same time. The EV charging station includes a power source; an electrical service receiving power from the power source; a primary electric reservoir receiving power from the electrical service; a secondary electric reservoir receiving power from the primary electric reservoir; and a first EV charger receiving power from the secondary electric reservoir.

IPC 8 full level  
**B60L 53/50** (2019.01); **B60L 53/31** (2019.01); **B60L 53/53** (2019.01); **B60L 53/55** (2019.01); **B60L 53/63** (2019.01); **B60L 53/67** (2019.01); **H02J 7/02** (2016.01); **H02J 7/22** (2006.01)

CPC (source: EP GB)  
**B60L 53/11** (2019.02 - EP GB); **B60L 53/14** (2019.02 - EP GB); **B60L 53/30** (2019.02 - GB); **B60L 53/31** (2019.02 - EP); **B60L 53/32** (2019.02 - GB); **B60L 53/53** (2019.02 - EP GB); **B60L 53/54** (2019.02 - EP GB); **B60L 53/55** (2019.02 - EP GB); **B60L 53/56** (2019.02 - GB); **B60L 53/63** (2019.02 - EP); **B60L 53/67** (2019.02 - EP); **Y02T 10/70** (2013.01 - EP GB); **Y02T 10/7072** (2013.01 - EP GB); **Y02T 10/72** (2013.01 - EP GB); **Y02T 90/12** (2013.01 - EP GB); **Y02T 90/14** (2013.01 - EP)

Citation (search report)  
• [XA] US 2012212174 A1 20120823 - ISHIKAWA HIROFUMI [JP], et al  
• [XI] US 2015069970 A1 20150312 - SARKAR REUBEN [US], et al  
• [XI] US 2018297477 A1 20181018 - STANFIELD JAMES RICHARD [US]  
• [A] US 2012074901 A1 20120329 - MOHAMMED TIM [US]  
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• See also references of WO 2022031689A1

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

DOCDB simple family (publication)  
**WO 2022031689 A1 20220210**; **WO 2022031689 A9 20220310**; AU 2021322105 A1 20230216; AU 2021322105 B2 20240704; CA 3189118 A1 20220210; CN 116133891 A 20230516; EP 4164918 A1 20230419; EP 4164918 A4 20240710; GB 202300471 D0 20230301; GB 2611926 A 20230419; JP 2023536728 A 20230829; MX 2023000558 A 20230213

DOCDB simple family (application)  
**US 2021044321 W 20210803**; AU 2021322105 A 20210803; CA 3189118 A 20210803; CN 202180060188 A 20210803; EP 21852396 A 20210803; GB 202300471 A 20210803; JP 2023506528 A 20210803; MX 2023000558 A 20210803