

Title (en)
CHARGING STATION FOR A VEHICLE-MOUNTED ENERGY STORE

Title (de)
LADESTATION FÜR EINEN FAHRZEUGSEITIGEN ENERGIESPEICHER

Title (fr)
STATION DE CHARGE POUR ACCUMULATEUR D'ÉNERGIE EMBARQUÉ

Publication
EP 4017756 A1 20220629 (DE)

Application
EP 20771452 A 20200826

Priority
• DE 102019214662 A 20190925
• EP 2020073801 W 20200826

Abstract (en)
[origin: WO2021058221A1] The invention relates to a charging station (1) for charging an energy store (2) of an electrically driven vehicle (3), in particular an electric bus, via an at least two-pole charging interface to the vehicle (3). Here, the vehicle (3) has a vehicle-mounted contact element (4) for each charging post. The charging station (1) comprises a contact head (5), which has a station-mounted contact element (6) for each charging post, and an actuating device (7) for adjusting the contact head (5) by a stroke height (H) between an upper inoperative position and a lower charging position. If the actuating device (7) has an actuating rod (8) and an actuating drive which is coupled to said actuating rod, wherein the actuating rod (8) has a lower end (12), to which the contact head (5) is connected, and an upper end (13), and wherein the actuating rod (8) is formed between the lower end (12) and the upper end (13) without articulations and has a length (L) which is greater than the stroke height (H), the complexity and manufacturing costs of a charging station (1) can be reduced.

IPC 8 full level
B60L 5/36 (2006.01); **B60L 5/42** (2006.01); **B60L 53/14** (2019.01); **B60L 53/16** (2019.01); **B60L 53/30** (2019.01); **B60L 53/35** (2019.01)

CPC (source: EP)
B60L 5/36 (2013.01); **B60L 5/42** (2013.01); **B60L 53/14** (2019.02); **B60L 53/16** (2019.02); **B60L 53/32** (2019.02); **B60L 53/35** (2019.02); **B60L 2200/18** (2013.01); **Y02T 10/70** (2013.01); **Y02T 10/7072** (2013.01); **Y02T 90/12** (2013.01); **Y02T 90/14** (2013.01)

Citation (search report)
• [XIY] CZ 2012635 A3 20131030 - FAIVELEY TRANSP LEKOV A S [CZ]
• [Y] EP 3142889 A1 20170322 - SYLVAN ASCENT INC [US], et al
• [Y] US 2017210238 A1 20170727 - BUEHS FLORIAN [DE], et al
• [Y] JP H0731009 A 19950131 - MITSUI CONSTR
• [A] CN 102611152 A 20120725 - SUZHOU LEBET E BUS TECHNOLOGY CO LTD
• See also references of WO 2021058221A1

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 102019214662 A1 20210325; EP 4017756 A1 20220629; WO 2021058221 A1 20210401

DOCDB simple family (application)
DE 102019214662 A 20190925; EP 2020073801 W 20200826; EP 20771452 A 20200826