

## Title (en)

SEMI-AUTOMATIC STATION FOR EXCHANGING THE TRACTION BATTERY OF AN ELECTRIC OR HYBRID VEHICLE

## Title (de)

HALBAUTOMATISCHE STATION ZUM AUSTAUSCHEN DER TRAKTIONSBATTERIE EINES ELEKTRO-ODER HYBRIDFAHRZEUGS

## Title (fr)

STATION SEMI-AUTOMATIQUE D'ECHANGE DE BATTERIE DE TRACTION POUR VEHICULE ELECTRIQUE OU HYBRIDE

## Publication

**EP 2776292 A1 20140917 (FR)**

## Application

**EP 12783982 A 20121106**

## Priority

- FR 1160063 A 20111107
- EP 2012071945 W 20121106

## Abstract (en)

[origin: WO2013068357A1] The invention notably relates to a method and device allowing an operator to exchange a discharged traction battery (113) of an electric or hybrid vehicle (3) for a recharged traction battery (114). The device comprises a pit in which are located lifting means (21) for lifting the vehicle, which comprise means (219) for immobilizing the vehicle in a reference position with respect to the direction longitudinal to the vehicle (X) and means (219, 220, 221) for immobilizing the vehicle in a reference position with respect to the direction transverse to the vehicle (Y). The device also comprises means for immobilizing the vehicle in a reference position with respect to the vertical direction (Z) and lifting means (24) for raising and lowering means for unlocking the discharged battery from the vehicle or locking the recharged battery to the vehicle.

## IPC 8 full level

**B60S 5/06** (2006.01); **B60K 1/04** (2006.01)

## CPC (source: EP KR US)

**B60L 53/80** (2019.01 - EP US); **B60S 5/06** (2013.01 - KR); **B60K 2001/0472** (2013.01 - KR); **B60Y 2200/91** (2013.01 - KR); **B60Y 2200/92** (2013.01 - KR); **Y02T 10/70** (2013.01 - EP); **Y02T 10/7072** (2013.01 - EP); **Y02T 90/12** (2013.01 - US); **Y10T 29/4973** (2015.01 - EP US); **Y10T 29/53539** (2015.01 - EP US)

## Citation (search report)

See references of WO 2013068357A1

## Cited by

CN108116256A

## Designated contracting state (EPC)

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## DOCDB simple family (publication)

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## DOCDB simple family (application)

**FR 1160063 A 20111107**; CN 201280062407 A 20121106; EP 12783982 A 20121106; EP 2012071945 W 20121106; KR 20147015148 A 20121106; US 201214356493 A 20121106