

Title (en)
PHOTOVOLTAIC DEVICE FOR A DRIVABLE WHEEL OF A BICYCLE AND BICYCLE

Title (de)
PHOTOVOLTAIKVORRICHTUNG FÜR EIN LAUFRAD EINES FAHRRADS UND FAHRRAD

Title (fr)
DISPOSITIF PHOTOVOLTAÏQUE POUR UNE ROUE POUVANT ÊTRE ENTRAÎNÉE D'UNE BICYCLETTE ET BICYCLETTE

Publication
EP 4168299 A1 20230426 (DE)

Application
EP 21735662 A 20210622

Priority
• DE 102020116490 A 20200623
• EP 2021067025 W 20210622

Abstract (en)
[origin: WO2021259942A1] A photovoltaic device for a drivable wheel of a bicycle has: • - a string having a plurality of photovoltaic cells (8) which are electrically connected in series, the string being able to be mechanically coupled to the drivable wheel, wherein • - a first photovoltaic cell (8a) of the photovoltaic cells (8) of the string has a first outer shape (101) and a second photovoltaic cell (8b) of the photovoltaic cells (8) has a second outer shape (102), the first outer shape (101) and the second outer shape (102) differing from each other and a first photoactive area (103) of the first photovoltaic cell (8a) being equal in size to a second photoactive area (104) of the second photovoltaic cell (8b), and/or – a charge controller (7) is electrically coupled to the string on the input side, the charge controller (7) being configured to transform a first electrical voltage of the photovoltaic cells (8) to a second electrical voltage, the second voltage serving to charge an energy storage device and/or the charge controller (7) being configured to operate the photovoltaic cells (8) in the MPP.

IPC 8 full level
B62M 6/85 (2010.01); **B62M 6/90** (2010.01)

CPC (source: EP)
B62M 6/85 (2013.01); **B62M 6/90** (2013.01)

Citation (search report)
See references of WO 2021259942A1

Designated contracting state (EPC)
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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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