Title (en)

FOLDABLE VEHICULAR COUPLER AND VEHICLE

Title (de

FALTBARE FAHRZEUGKUPPLUNG UND FAHRZEUG

Title (fr)

COUPLEUR DE VÉHICULE PLIABLE ET VÉHICULE

Publication

EP 3992054 B1 20230719 (EN)

Application

EP 19907492 A 20191125

Priority

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Abstract (en

[origin: EP3992054A1] A foldable coupler including a coupler head (1); a rotating arm mechanism (2) with a first arm and a second arm rotatably connected with the first arm; and a folding mechanism (3), including a driving mechanism (31) and a force transfer component (32); the driving mechanism (31) being mounted on the second arm (22), the force transfer component (32) being rotatably mounted on the first arm (21); the driving mechanism (31) being connected with the force transfer component (32) to transfer a driving force to the first arm (21) through the force transfer component (32), so that the first arm (21) and the second arm (22) rotate relative to each other; wherein the first arm (21) is connected to a vehicle body (4), and the second arm (22) is connected to the coupler head (1); or, the first arm (21) is connected to the coupler head (1), and the second arm (22) is connected to the vehicle body (4). A vehicle with the foldable coupler is also disclosed. The foldable coupler not only realizes the automatic folding, the number of driving elements is decreased, and the intermediate control process is simplified greatly.

IPC 8 full level

B61G 1/00 (2006.01); B61G 7/00 (2006.01); B61G 7/08 (2006.01)

CPC (source: EP)

**B61G 7/08** (2013.01)

Cited by

EP4393788A1; WO2024141429A1; EP4299406A1; WO2024003261A1

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