

Title (en)  
BICYCLE BOTTOM BRACKET GEAR MECHANISM WITH CLUTCH DEVICES WHICH ARE COUPLED TO ONE ANOTHER

Title (de)  
FAHRRADTRETLAGERGETRIEBE MIT MITEINANDER GEKOPPELTEN KUPPLUNGSVORRICHTUNGEN

Title (fr)  
MÉCANISME D'ENGRENAGE DE BRAQUET INFÉRIEUR DE BICYCLETTE À DISPOSITIFS D'EMBRAYAGE QUI SONT ACCOUPlés ENTRE  
EUX

Publication  
**EP 4323265 A1 20240221 (DE)**

Application  
**EP 22721741 A 20220408**

Priority  
• DE 102021109204 A 20210413  
• EP 2022059454 W 20220408

Abstract (en)  
[origin: WO2022218862A1] A bicycle bottom bracket gear mechanism (1), with at least one gear mechanism shaft (3, 5, 7), on which gearwheels (27, 34) which are coupled to in each case one switchable clutch device (29) are arranged. The clutch devices can be switched over between an engaged state (31) and a disengaged state (33). In the engaged state, a clutch device connects the gearwheel, which is coupled to it, to the respective gear mechanism shaft (3, 5, 7) fixedly for conjoint rotation in at least one rotational direction of the respective gear mechanism shaft; in the disengaged state of the clutch device, the gearwheel is freely rotatable with respect to the respective gear mechanism shaft. At least one switching device (35, 37) is provided for switching over the clutch devices of a gear mechanism shaft. Here, each gear mechanism shaft, on which gearwheels which are coupled to one switchable clutch device each are arranged, is assigned a different switching device. Each switching device has at least two switching positions (39, 41, 101) and can be transferred by means of a switching movement (38, 45) from one of the switching positions into another one of the switching positions. Each of the switching positions of a switching device corresponds to a different combination of the engaged and disengaged states of the clutch devices of the gear mechanism shaft which is assigned to it. Starting from one of the switching positions of a switching device, every other one of the switching positions of said switching device can be reached by precisely one switching movement.

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