

Title (en)  
BICYCLE GEARBOX

Title (de)  
FAHRRADGETRIEBE

Title (fr)  
BOITE DE VITESSES POUR CYCLES

Publication  
**EP 3784556 A1 20210303 (FR)**

Application  
**EP 19723323 A 20190419**

Priority  
• FR 1870491 A 20180427  
• EP 2019060244 W 20190419

Abstract (en)  
[origin: WO2019206836A1] The present invention relates to a gearbox (1) for cycles (100) comprising: – at least a first (T1) and a second (T2) epicyclic geartrain, an epicyclic geartrain (T1, T2, T3) comprising: – a plurality of sun gears (11, 12, 17, 18, 22, 23) , and, a plurality of planet pinions (13, 14, 19, 20, 24, 25) associated with each sun gear (11, 12, 17, 18, 22, 23), said pluralities of planet pinions (13, 14, 19, 20, 24, 25) being mounted on a planet carrier (15, 26) and, - a peripheral annulus gear (16, 21, 27) configured to mesh with the planet pinions (13, 14, 19, 20, 24, 25) associated with a sun gear (11, 12, 17, 18, 22, 23), in which the gearbox (1) also comprises a clutch device (40) arranged between the first (T1) and the second (T2) epicyclic geartrains, in which a clutch pinion (41) is rotationally coupled to the planet carrier (15) and is configured to be able to move axially between a first position of engagement in which it is claw-coupled to a sun gear (12) of the first epicyclic geartrain (T1) and a second position of engagement in which it is claw-coupled to a sun gear (17) of the second epicyclic geartrain (T2), the clutch pinion (41) also being configured to be in a disengaged intermediate position.

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Citation (search report)  
See references of WO 2019206836A1

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