

Title (en)

PEDAL WITH LOCKING AND UNLOCKING MECHANISM

Title (de)

PEDAL MIT VER- UND ENTRIEGELUNGSMECHANISMUS

Title (fr)

PÉDALE DOTÉE D'UN MÉCANISME DE VERROUILLAGE ET DE DÉVERROUILLAGE

Publication

EP 3806966 A4 20220209 (EN)

Application

EP 18923127 A 20180618

Priority

US 2018038113 W 20180618

Abstract (en)

[origin: WO2019245524A1] Embodiments relate to a pedal secured to a main drive and switchable between a locked mode where the pedal does not rotate relative to the main drive shaft and a released mode where the pedal rotates relative to the main drive shaft. The main drive shaft adjoins to a platform (e.g., a crank arm of a bicycle) or another system. When the user's foot or footwear is engaging the pedal, the pedal is placed in a released mode whereas when the user's foot or footwear is disengaged from the pedal, the pedal is placed in a locked mode. Embodiments also relate to a rod secured to the pedal in a rotatable manner and a cuff coupled to the rod to support retention of the user's foot or footwear in a manner that supports feet of different sizes and form factors.

IPC 8 full level

A63B 22/00 (2006.01); **A63B 71/00** (2006.01); **B62M 3/00** (2006.01); **B62M 3/08** (2006.01)

CPC (source: EP US)

A63B 71/0054 (2013.01 - EP); **B62M 3/086** (2013.01 - EP US); **A63B 2209/00** (2013.01 - EP US); **A63B 2220/51** (2013.01 - EP); **A63B 2220/801** (2013.01 - EP); **A63B 2220/805** (2013.01 - EP); **A63B 2220/833** (2013.01 - EP); **A63B 2225/093** (2013.01 - EP)

Citation (search report)

- [A] US 4898048 A 19900206 - SAMPSON ERIC A [US]
- [A] WO 8904791 A1 19890601 - GOOD JOHN M [US]
- [A] EP 0983185 A1 20000308 - ALVAREZ ORDAS [FR]
- [A] DE 4022736 A1 19920123 - LOOK SA [FR]
- See references of WO 2019245524A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2019245524 A1 20191226; EP 3806966 A1 20210421; EP 3806966 A4 20220209

DOCDB simple family (application)

US 2018038113 W 20180618; EP 18923127 A 20180618