

Title (en)

AUTOMATIC TRANSMISSION SYSTEMS FOR HUMANLY POWERED VEHICLES

Title (de)

AUTOMATISCHES GETRIEBE FÜR EIN MIT MUSKELKRAFT ANGETRIEBENES FAHRZEUG

Title (fr)

SYSTEMES DE TRANSMISSION AUTOMATIQUES POUR VEHICULES ENTRAINES PAR L'HOMME

Publication

**EP 1030983 A4 20050629 (EN)**

Application

**EP 97948226 A 19971110**

Priority

US 9720492 W 19971110

Abstract (en)

[origin: WO9924735A1] A shiftable bicycle transmission (30) is automatically shifted by automatically sensing output power torque of the transmission (30), automatically converting sensed output power torque to transmission shifting motion, and automatically shifting the shiftable transmission (30) with that transmission shifting motion. A shiftable bicycle (10) driving power transmission has a transmission shifting element (47, 49), a bicycle output power torque sensor (51), and an output power torque-to-transmission shifting motion converter (1, 2, 3) having an output power torque input coupled to that output power torque sensor (51) and having a transmission shifting motion output. Such transmission shifting element (47, 49) is coupled to the transmission shifting motion output of that converter.

IPC 1-7

**F16H 1/32**; **B62M 11/18**

IPC 8 full level

**B62M 11/16** (2006.01); **B62M 11/18** (2006.01); **F16H 1/32** (2006.01); **F16H 3/44** (2006.01); **F16H 3/66** (2006.01); **F16H 61/02** (2006.01)

CPC (source: EP)

**B62M 11/18** (2013.01); **F16H 3/66** (2013.01)

Citation (search report)

- [X] US 5213548 A 19930525 - COLBERT RALPH G [US], et al
- [A] US 4490127 A 19841225 - MATSUMOTO HIROFUMI [JP], et al
- [A] US 4858494 A 19890822 - HEALY DONALD B [US]
- See references of WO 9924735A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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