

Title (en)
ORBITAL TRANSMISSION WITH GEARED OVERDRIVE

Title (de)
UMLAUFGETRIEBE MIT VERZAHNTER SCHNELLGANGEINRICHTUNG

Title (fr)
TRANSMISSION PLANETAIRE A SURMULTIPLICATEUR A ENGRENAGE

Publication
EP 1890898 A2 20080227 (EN)

Application
EP 06773264 A 20060615

Priority

- US 2006023335 W 20060615
- US 15311205 A 20050615
- US 15311105 A 20050615

Abstract (en)
[origin: WO2006138447A2] The modular transmission uses only a pair of small and light hydraulic machines of remarkably improved volumetric efficiency with pistons having body portions substantially as long as the axial length of the respective cylinders in which they reciprocate. The two hydraulic machines operate in a closed loop, one being used as a pump driven by the vehicle's engine, and the other used as a motor. Each machine has a fully articulatable swash plate. By computer control, the angles of the swash plates of the two machines are infinitely varied to provide an appropriate optimum ratio of engine/wheel speed for all conditions from start-up, city driving, hill climbing varied according to load and steepness, and over-drive for highway. This complete vehicle operation is attained while the vehicle's engine continues to operate at relatively constant speeds and relatively low RPM.

IPC 8 full level
B60K 17/00 (2006.01); **B60K 17/10** (2006.01); **B60W 30/18** (2012.01); **B60W 30/188** (2012.01); **F16H 37/06** (2006.01); **F16H 39/14** (2006.01); **F16H 61/46** (2010.01); **F16H 61/462** (2010.01); **F16H 47/04** (2006.01)

CPC (source: EP KR)
B60K 17/00 (2013.01 - KR); **B60K 17/105** (2013.01 - EP); **B60W 10/06** (2013.01 - EP); **B60W 30/1882** (2013.01 - EP); **F16H 39/14** (2013.01 - EP); **F16H 61/42** (2013.01 - KR); **F16H 61/421** (2013.01 - EP); **F16H 61/431** (2013.01 - EP); **F16H 61/433** (2013.01 - KR); **F16H 61/462** (2013.01 - EP); **F16H 61/465** (2013.01 - EP); **B60W 2710/0644** (2013.01 - EP); **F16H 47/02** (2013.01 - EP); **F16H 47/04** (2013.01 - EP); **F16H 59/18** (2013.01 - EP); **F16H 59/54** (2013.01 - EP); **F16H 2059/6869** (2013.01 - EP); **F16H 2059/6876** (2013.01 - EP)

Citation (search report)
See references of WO 2006138474A2

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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
WO 2006138447 A2 20061228; **WO 2006138447 A3 20071011**; AU 2006259315 A1 20061228; AU 2006259387 A1 20061228; AU 2006259387 B2 20100218; BR PI0611908 A2 20101005; BR PI0611951 A2 20101013; CA 2609901 A1 20061228; CA 2609901 C 20091103; CA 2609902 A1 20061228; CN 101253351 A 20080827; EP 1890898 A2 20080227; EP 1891356 A2 20080227; EP 1891356 A4 20110608; JP 2008546958 A 20081225; JP 2008546959 A 20081225; KR 100943016 B1 20100218; KR 20080016861 A 20080222; KR 20080016862 A 20080222; MX 2007015507 A 20080304; MX 2007015941 A 20080307; WO 2006138474 A2 20061228; WO 2006138474 A3 20090430

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US 2006023285 W 20060615; AU 2006259315 A 20060615; AU 2006259387 A 20060615; BR PI0611908 A 20060615; BR PI0611951 A 20060615; CA 2609901 A 20060615; CA 2609902 A 20060615; CN 200680021310 A 20060615; EP 06773228 A 20060615; EP 06773264 A 20060615; JP 2008517099 A 20060615; JP 2008517109 A 20060615; KR 20077029350 A 20071214; KR 20077029360 A 20060615; MX 2007015507 A 20060615; MX 2007015941 A 20060615; US 2006023335 W 20060615