

Title (en)

DISENGAGEABLE BELT DRIVE ASSEMBLIES FOR PAVEMENT SAWS

Title (de)

AUSRÜCKBARE RIEMENTRIEBANORDNUNGEN FÜR PFLASTERSÄGEN

Title (fr)

ENSEMBLES TRANSMISSION PAR COURROIE DEBRAYABLE POUR SCIES DE PAVAGE

Publication

EP 1943438 A1 20080716 (EN)

Application

EP 06719859 A 20060126

Priority

- US 2006003196 W 20060126
- US 73367105 P 20051103

Abstract (en)

[origin: WO2007053168A1] A clutchless belt drive system for pavement saw. The saw having an engine (16) mounted to a frame (12) via a pivot mount (14) . The engine drives a first pulley (20) , which is fixed relative to the engine. The first pulley drives a belt (22) , which in turn drives a second pulley (24) . The second pulley drives a saw blade (26) . An actuator (18) connected to the frame and to the engine so that the actuator extension rotates the engine in a first direction about the pivot mount, driving the first pulley against the belt and tautening the belt about the first pulley and the second pulley, and so that actuator retraction rotates the engine in a second direction counter to the first direction, releasing the first pulley from the belt and relaxing belt tension. A shroud (28) encircles the belt in a plane perpendicular to the line defined by the center of the first pulley and the center of the second pulley. The shroud is positioned so that when the belt tension is relaxed, the belt contacts the shroud and the resulting friction decelerates the belt.

IPC 8 full level

F16H 7/08 (2006.01); **F16H 7/14** (2006.01)

CPC (source: EP)

B23D 47/12 (2013.01); **B28D 1/045** (2013.01); **F16H 7/0827** (2013.01); **F16H 7/14** (2013.01)

Citation (search report)

See references of WO 2007053168A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 2007053168 A1 20070510; WO 2007053168 A8 20091126; CN 101300437 A 20081105; EP 1943438 A1 20080716

DOCDB simple family (application)

US 2006003196 W 20060126; CN 200680040951 A 20060126; EP 06719859 A 20060126