

Title (en)

WORM GEAR FOR ELECTRIC POWER STEERING DEVICE

Title (de)

SCHNECKENGETRIEBE ZUR ELEKTRISCHEN SERVOLENKUNG

Title (fr)

ENGRENAGE À VIS SANS FIN POUR DISPOSITIF DE DIRECTION À ÉNERGIE ÉLECTRIQUE

Publication

**EP 2018307 A1 20090128 (EN)**

Application

**EP 06770299 A 20060512**

Priority

US 2006018525 W 20060512

Abstract (en)

[origin: WO2007133205A1] A gear for an electric power steering device for reducing the rotation speed of an electric motor for steering assist with a reduction gear mechanism and transmitting the rotation to a steering mechanism, the gear being incorporated and used in the reduction gear mechanism, wherein at least the teeth of the gear are formed from a resin composition of a non-reinforced type comprising (a) a polyamide resin having a carboxyl group at least at a terminal end; (b) 0.5-5 wt.% a polycarbodiimide compound, and (c) 3-15 wt.% an elastic material modified with a reactive functional group.

IPC 8 full level

**B62D 5/04** (2006.01)

CPC (source: EP)

**B62D 5/0409** (2013.01); **C08L 77/00** (2013.01); **F16H 1/16** (2013.01); **F16H 55/06** (2013.01)

Citation (search report)

See references of WO 2007133205A1

Designated contracting state (EPC)

DE FR GB IT

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

**WO 2007133205 A1 20071122**; CN 101223071 A 20080716; EP 2018307 A1 20090128; JP 2009536891 A 20091022

DOCDB simple family (application)

**US 2006018525 W 20060512**; CN 200680016373 A 20060512; EP 06770299 A 20060512; JP 2009509531 A 20060512