

Title (en)  
PRETENSIONER DRIVE

Title (de)  
STRAFFVORRICHTUNG

Title (fr)  
PRE-TENDEUR

Publication  
**EP 1286868 A4 20050302 (EN)**

Application  
**EP 01941902 A 20010605**

Priority  
• US 0118074 W 20010605  
• US 20937600 P 20000605

Abstract (en)  
[origin: WO0194164A1] A pretensioner (10) for a seat belt (12) employs a strap (30) fixed about a geared pulley (34) and also fixed at an opposite end (36) to a housing (18). Upon pretensioner activation, an actuator (20) is propelled through a rectangular passage (72) thereby impelling a portion (31) of the strap (30) extending across the passage (72). Torque created by the strap (30) about the pulley (34) effects rotary advancement of the geared pulley (34) with a geared clutch (37). The geared clutch (37) co-axially and rotatably communicates with a seat belt retractor spool (46) by a spool shaft (40) which axially extends through the clutch (37). Activation of the pretensioner (10) therefore results in ignition of a gas generant (16) that produces sufficient gas pressure to drive the actuator (20) through the linear passage (72), thereby effecting rotary movement of the pulley (34), the clutch (37), the shaft (40), and the spool (46) for tensioning the seat belt.

IPC 1-7  
**B60R 22/46**

IPC 8 full level  
**B60R 22/46** (2006.01)

CPC (source: EP)  
**B60R 22/4633** (2013.01); **B60R 2022/468** (2013.01)

Citation (search report)  
• [A] US 5443222 A 19950822 - MOEDINGER THOMAS [DE], et al  
• [A] EP 0361075 A1 19900404 - AUTOLIV DEV [SE]  
• See references of WO 0194164A1

Designated contracting state (EPC)  
AT BE DE GB

DOCDB simple family (publication)  
**WO 0194164 A1 20011213**; **WO 0194164 A9 20021010**; EP 1286868 A1 20030305; EP 1286868 A4 20050302; JP 2003535751 A 20031202; JP 3792649 B2 20060705

DOCDB simple family (application)  
**US 0118074 W 20010605**; EP 01941902 A 20010605; JP 2002501698 A 20010605