

Title (en)
PRETENSIONER DRIVER

Title (de)
GURTSTRAFFER-ANTRIEB

Title (fr)
DISPOSITIF DE COMMANDE DE PRETENDEUR

Publication
EP 1286869 A1 20030305 (EN)

Application
EP 01946736 A 20010604

Priority
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Abstract (en)
[origin: WO0192069A1] A pretensioner (10) for a seat belt (12) employs a strap (30) fixed about a pulley (34) and also fixed at an opposite end (36) to a housing (18). Upon pretensioner activation, an actuator (20) is propelled across 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 slideable and rotary engagement of the geared pulley (34) with a geared hub (38). The geared hub (38) co-axially and rotatably communicates with a seat belt retractor spool (46) wherein a seat belt retractor spool shaft (40) axially extends through hub (38) and spool (46). Activation of the pretensioner (10) therefore results in ignition of a gas generant (22) that produces sufficient gas pressure to drive the actuator (20), thereby effecting rotary movement in the pulley (34), the hub (38), the shaft (40), and the spool (46) to thereby tension the seat belt.

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