

Title (en)
PRETENSIONER DRIVE

Title (de)
ANTRIEB FÜR EINEN SICHERHEITSGURTSTRAFFER

Title (fr)
MECANISME D'ENTRAINEMENT DE PRETENDEUR

Publication
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Application
EP 01941726 A 20010531

Priority
• US 0117553 W 20010531
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Abstract (en)
[origin: WO0192138A1] A pretensioner (10) for a seat belt (12) utilizes a perforated strap (34) loosely coiled about a hub (38) wherein the hub (38) is, in normal operation of a vehicle, rotatable with a webbing reel shaft (40). A plurality of protrusions (42) are circumferentially spaced about the hub and mesh with the perforated strap (34) upon activation of the pretensioner (10). The pretensioner (10) contains a first passage (44) and a second passage (46) for the respective containment of the hub (38) and an actuator (20), wherein each passage is formed perpendicular and in volumetric intersection with the other. The pretensioner (10) also contains a gas generant composition (22) in combustive communication with the actuator (20). Upon ignition, the gas pressure produced by the pyrotechnic (22) propels the actuator (32) into the strap (34), thereby effecting rotary advancement of the hub (38) and the shaft (40), and thus pretensioning the seat belt (12) wound about a spool (11) of a seat belt retractor (14), wherein the spool (11) is rotatably engaged with a second portion of the shaft (40) and thus provided in coaxial relation with the hub (38).

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• See references of WO 0192138A1

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