

Title (en)

Apparatus for assembling and dismantling spring/shock absorber units for vehicle suspensions

Title (de)

Vorrichtung für den Zusammenbau oder das Zerlegen von Feder/Stossdämpfer-Einheiten für Fahrzeugaufhängungen

Title (fr)

Dispositif pour l'assemblage et démontage d'unités ressort/amortisseur pour suspensions de véhicule

Publication

EP 1046469 A3 20010314 (EN)

Application

EP 00108416 A 20000418

Priority

IT TO990325 A 19990423

Abstract (en)

[origin: EP1046469A2] Apparatus for assembly and dismantling spring/shock absorber units for vehicle suspensions includes an elongate structure comprising a slidable stem (11) of an actuator device (5) and two abutment members (13, 15) intended to engage respective portions of a spring (M) of a spring/shock absorber (G) one of which (15) is connected to the stem (11). A pair of engagement elements (18, 28) disposed on the opposite sides from the abutment members (13, 15) with respect to the unit (G) are able to engage opposite portions of the spring (M), one of such elements (28) being connected to the stem (11). The engagement elements (18, 28) are movable transversely of the general axis (A) so that they can be introduced between a pair of turns of the spring (M). The spring/shock absorber unit can be engaged by the apparatus (1) with its axis (H) spaced from the general axis (A) and with the shock absorber (S) alongside the actuator (5) so that there is a completely free manoeuvring space at the end of the spring/shock absorber unit (G) opposite the actuator (5). <IMAGE>

[origin: EP1046469A2] The apparatus (1) is disposed with its axis (H) significantly spaced from the general axis (A) of its elongated structure in such a way that the shock absorber (G) lies alongside an actuator cylinder (5), of the structure, so that there is a completely free maneuvering space at the end of the unit opposite the cylinder.

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B25B 27/30

IPC 8 full level

B25B 27/30 (2006.01)

CPC (source: EP)

B25B 27/304 (2013.01)

Citation (search report)

- [XY] US 5507470 A 19960416 - AMSTUTZ PETER [CA]
- [Y] DE 2853090 A1 19800612 - KLANN HORST
- [A] US 5172462 A 19921222 - HA TAE-HONG [KR]
- [A] EP 0629474 A1 19941221 - WEITNER WERNER [DE]
- [Y] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 09 30 September 1997 (1997-09-30)

Cited by

JP2014104531A; CN114952720A; CN104416531A; CN113997245A; FR2834660A1; CN108747315A; US7114228B2; WO03057414A1

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