

Title (en)

Buffer with a hydraulic damper.

Title (de)

Puffer mit einem hydraulischen Dämpfer.

Title (fr)

Tampon avec un amortisseur hydraulique.

Publication

**EP 0451630 B1 19940105 (DE)**

Application

**EP 91104936 A 19910328**

Priority

DE 4011439 A 19900409

Abstract (en)

[origin: EP0451630A1] The buffer provided with buffer springs (8) and a hydraulic damper (4) has a piston rod (2) guided in a sleeve (1), on the end of which rod a piston (5) displaceable in a cylinder (7) is arranged. When the piston (5) is displaced the damping liquid (21) in the cylinder (7) flows through a gap (14) arranged between piston (5) and cylinder (7) into an equalising chamber (10) provided with a gas cushion (22). The piston (5), by virtue of a recess (18), is designed in such a way that, if the internal pressure increases, the gap (14) is reduced or at least remains constant in the event of an impact. <IMAGE>

IPC 1-7

**B61G 11/12**

IPC 8 full level

**B61G 11/12** (2006.01)

CPC (source: EP)

**B61G 11/12** (2013.01)

Cited by

EP1738985A1; EP1900594A1; US5927523A; US5908123A; EP0933279A1; US6047839A; CN103523045A

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB IT LI NL SE

DOCDB simple family (publication)

**EP 0451630 A1 19911016; EP 0451630 B1 19940105**; AT E99612 T1 19940115; DE 4011439 A1 19911010; DE 4011439 C2 19940120; DE 59100792 D1 19940217

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