

Title (en)
CRUMPLE ELEMENT

Title (de)
KNAUTSCHELEMENT

Title (fr)
ELEMENT DEFORMABLE

Publication
EP 1257455 B1 20051012 (DE)

Application
EP 01905479 A 20010219

Priority
• AT 0100040 W 20010219
• AT 2502000 A 20000218

Abstract (en)
[origin: WO0160676A1] The invention relates to a crumple element (1), for a rail vehicle, arranged in the region of a crumple zone, on at least one end of a vehicle. Said element comprises at least one tubular cavity, exchangeably mounted in the rail vehicle, formed from two sheets (2a, 2b), at least one of which is a shaped sheet (2a', 2b') and which are connected to facing, adjacent fillets (3a, 3b), to form hollow bodies (4a, 4b), running parallel to each other.

IPC 1-7
B61D 15/06; B61F 1/10; B60R 19/18; B62D 21/15

IPC 8 full level
B61D 15/06 (2006.01); **B61F 1/10** (2006.01)

CPC (source: EP US)
B61D 15/06 (2013.01 - EP US); **B61F 1/10** (2013.01 - EP US)

Designated contracting state (EPC)
AT CH DE FR GB LI

DOCDB simple family (publication)
WO 0160676 A1 20010823; AT 408874 B 20020325; AT A2502000 A 20010815; DE 50107683 D1 20060223; EP 1257455 A1 20021120; EP 1257455 B1 20051012; US 2003019390 A1 20030130; US 6688237 B2 20040210

DOCDB simple family (application)
AT 0100040 W 20010219; AT 2502000 A 20000218; DE 50107683 T 20010219; EP 01905479 A 20010219; US 22350102 A 20020819