

Title (en)
FRAME FOR RAILWAY FREIGHT CARS, ESPECIALLY FOR TANK VEHICLES OR HOPPER CARS

Publication
EP 0389866 A3 19911009 (DE)

Application
EP 90104791 A 19900314

Priority
• DE 3909883 A 19890325
• DE 3940650 A 19891208

Abstract (en)
[origin: EP0389867A2] In order, in a tank wagon whose tank (1) is supported with respect to the supporting structure (3) at both ends in end saddles (2a), (2b) of the supporting structure (3) arranged transversally with respect to the longitudinal direction of the tank wagon, to reduce the loads at the connecting point between the tank (1) and supporting structure (3), in particular during the effect of buffer impacts on the supporting structure (3) and to reduce the buffer forces, the container (1) is held at both cheek ends A, B so as to be freely longitudinally displaceable in each case with respect to the assigned wagon end A and B respectively and is supported in the direction of the transverse centre plane of the tank wagon at its ends A, B against supporting structure-side support points (5a) and (5b) respectively by means of tank-side stop pieces (4a) and (4b) respectively. For the further dissipation of energy, an energy dissipation device (7a) and (7b) respectively, acting in the direction towards the transverse centre plane of the tank wagon, can be arranged (Fig. 5) in each case between the stop element (4a) and the associated support point (5a) as well as between the stop element (4b) and the support point (5b). <IMAGE>

IPC 1-7
B61D 5/06; **B61D 7/02**; **B61F 1/04**

IPC 8 full level
B61D 5/06 (2006.01); **B61D 7/02** (2006.01); **B61F 1/04** (2006.01)

CPC (source: EP)
B61D 5/06 (2013.01); **B61D 7/02** (2013.01); **B61F 1/04** (2013.01)

Citation (search report)
[A] BE 680719 A 19661017

Cited by
CN106740949A; EP1369330A1; EP1738984A1; US6357363B1

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)
EP 0389867 A2 19901003; **EP 0389867 A3 19911009**; **EP 0389867 B1 19940504**; DD 293556 A5 19910905; DE 59005575 D1 19940609; EP 0389866 A2 19901003; EP 0389866 A3 19911009; EP 0389866 B1 19930915; FI 901460 A0 19900323; FI 901461 A0 19900323

DOCDB simple family (application)
EP 90104792 A 19900314; DD 33903090 A 19900323; DE 59005575 T 19900314; EP 90104791 A 19900314; FI 901460 A 19900323; FI 901461 A 19900323