

Title (en)

SIDE TIPPING WAGON WITH IMPROVED TIP MECHANISM

Title (de)

SEITLICH KIPPFÄHIGER WAGGON MIT VERBESSERTER KIPPVORRICHTUNG

Title (fr)

WAGON A BASCULE LATERALE DOTE D'UN MECANISME AMELIORE

Publication

**EP 1303434 A1 20030423 (EN)**

Application

**EP 01923288 A 20010221**

Priority

- US 0140157 W 20010221
- US 21982900 P 20000721

Abstract (en)

[origin: WO0208041A1] A side tipping wagon (20) includes a single cylinder (32) related to a structure (36) at a mid point in the wagon. The structure encloses the cylinder, preferably by dividing the wagon into separate portions. The structures aids in the overall rigidity of the wagon during tipping.

IPC 1-7

**B61D 9/02**; **B61D 9/06**; **B60P 1/16**

IPC 8 full level

**B60P 1/16** (2006.01); **B61D 9/02** (2006.01); **B61D 9/06** (2006.01)

CPC (source: EP)

**B60P 1/165** (2013.01); **B61D 9/02** (2013.01); **B61D 9/06** (2013.01)

Citation (search report)

See references of WO 0208041A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**WO 0208041 A1 20020131**; AU 4999801 A 20020205; EP 1303434 A1 20030423; PL 364025 A1 20041129

DOCDB simple family (application)

**US 0140157 W 20010221**; AU 4999801 A 20010221; EP 01923288 A 20010221; PL 36402501 A 20010221