

Title (en)  
Communication bellows between cars of a rail vehicle

Title (de)  
Faltenbalg zwischen den Wagen eines Schienenfahrzeugs

Title (fr)  
Soufflet d'intercirculation entre voitures d'un véhicule ferroviaire

Publication  
**EP 2082942 A1 20090729 (FR)**

Application  
**EP 09150940 A 20090120**

Priority  
FR 0850442 A 20080124

Abstract (en)  
The bellow has an outer skin (22) presenting a succession of outgoing undulations (56), and an inner skin (24) presenting a succession of entering undulations (58) arranged opposite to the outgoing undulations of the outer skin. The skins define a closed sound insulation space (25) between them, where the inner skin is linked to the outgoing undulations of the outer skin. The outer and inner skins present a closed section and are linked with the few undulations (56, 58) with respect to remaining undulations (56, 58) of the skins separated from each other. An independent claim is also included for an intercommunication zone with two end walls of two successive cars of a rail vehicle, where each wall delimits a passage opening.

Abstract (fr)  
L'invention concerne un soufflet d'intercirculation, du type comportant : - au moins une peau extérieure (22) présentant une succession d'ondulations rentrantes (56) ; - au moins une peau intérieure (24) présentant une succession d'ondulations sortantes (58) disposées en regard des ondulations rentrantes (56) de la peau extérieure (22), - les deux peaux (20, 22) délimitant entre elles un espace d'isolation phonique (25), la peau intérieure (24) étant liée en au moins certaines des ondulations rentrantes (56) de la peau extérieure (22), caractérisé en ce que les peaux extérieure (22) et intérieure (24) sont liées entre elles par seulement certaines ondulations (56, 58) en regard, d'autres ondulations (56, 58) des deux peaux (22, 24) restant séparées les unes des autres.

IPC 8 full level  
**B61D 17/22** (2006.01)

CPC (source: EP KR US)  
**B61D 17/04** (2013.01 - KR); **B61D 17/20** (2013.01 - KR); **B61D 17/22** (2013.01 - EP KR US)

Citation (search report)

- [XY] FR 2786452 A1 20000602 - FAIVELEY TRANSPORT [FR]
- [Y] FR 2865984 A1 20050812 - HUTCHINSON [FR]
- [A] EP 0293051 A1 19881130 - ASCAN AS [DK]
- [A] EP 0336809 A1 19891011 - CAOUTCHOUC MANUF PLASTIQUE [FR], et al
- [A] DE 19721285 A1 19981126 - GEBR HENNIG GMBH [DE]

Cited by  
CN102463862A; EP3118081A1; US11407433B2; EP2335995A1; US10518594B2; WO2018024289A1; WO2017009069A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**EP 2082942 A1 20090729; EP 2082942 B1 20180711**; AR 070233 A1 20100325; CA 2650765 A1 20090724; CA 2650765 C 20160315; CN 101492059 A 20090729; CN 101492059 B 20131030; ES 2677597 T3 20180803; FR 2926772 A1 20090731; FR 2926772 B1 20100813; JP 2009173278 A 20090806; KR 101540016 B1 20150728; KR 20090082138 A 20090729; PL 2082942 T3 20181231; RU 2009102246 A 20100810; RU 2489288 C2 20130810; US 2009193999 A1 20090806; US 8166889 B2 20120501

DOCDB simple family (application)  
**EP 09150940 A 20090120**; AR P090100202 A 20090123; CA 2650765 A 20090121; CN 200910005098 A 20090123; ES 09150940 T 20090120; FR 0850442 A 20080124; JP 2009013497 A 20090123; KR 20090005667 A 20090122; PL 09150940 T 20090120; RU 2009102246 A 20090123; US 35831309 A 20090123