

Title (en)  
Vehicle door

Title (de)  
Fahrzeugtür

Title (fr)  
Porte de véhicule automobile

Publication  
**EP 1031690 B1 20040102 (FR)**

Application  
**EP 00400133 A 20000119**

Priority  
FR 9902177 A 19990222

Abstract (en)  
[origin: EP1031690A1] Wide side access to vehicle is obtained by omitting central pillar, rear edge of front door (10), hinged at front, adjoining front edge of rear (sliding) door, when both are closed. Without central pillar, front door lock is placed on upper or lower edge, engaging with fixing point in top or bottom of door frame (12), i.e. coach work box sections forming edge of roof (12S) or door sill (12I). Locks are at both these positions. Sill-level lock is fixed in base (14I) of door casing, and embodies rotating bolt plate (22), with two-stage latching, engaging vertical hasp-bar (16) fixed on top of sill case (12I). When door closes fully, it operates push-button switch (32) in door frame which energizes second, electrical lock (30) within door frame top (14S). Lock expels bolt (28) into recess (26) in frame (12S). Bolt is chamfered to ease entry and final sealing. Relative positions of two locks can be reversed.

IPC 1-7  
**E05B 65/22**; **E05B 47/02**; **E05B 65/20**

IPC 8 full level  
**E05B 47/02** (2006.01); **E05B 65/20** (2006.01); **E05B 85/22** (2014.01); **E05B 63/14** (2006.01)

CPC (source: EP)  
**E05B 81/04** (2013.01); **E05B 83/38** (2013.01); **E05B 85/22** (2013.01); **E05B 63/143** (2013.01)

Cited by  
DE102004041742A1; DE102007054000A1; DE10323150A1; DE10323150B4; US7320495B2; US9884542B2; WO2004103749A1; WO2015117211A1

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

DOCDB simple family (publication)  
**EP 1031690 A1 20000830**; **EP 1031690 B1 20040102**; AT E257207 T1 20040115; DE 60007468 D1 20040205; DE 60007468 T2 20041021; ES 2213546 T3 20040901; FR 2790028 A1 20000825; FR 2790028 B1 20010608

DOCDB simple family (application)  
**EP 00400133 A 20000119**; AT 00400133 T 20000119; DE 60007468 T 20000119; ES 00400133 T 20000119; FR 9902177 A 19990222