

Title (en)  
Improvements to vehicle-transporting railway cars

Title (de)  
Verbesserungen an Eisenbahnwagen für den Transport von Fahrzeugen

Title (fr)  
Perfectionnements aux wagons ferroviaires pour le transport des véhicules

Publication  
**EP 0983921 A1 20000308 (EN)**

Application  
**EP 99116759 A 19990830**

Priority  
US 14550398 A 19980902

Abstract (en)  
Improvements to vehicle-transporting railway cars comprising movable bridge plate supports which avoid interference with door clearance requirements, and improved end door lock, and a flexible deflector for decreasing air flow about the outer edges of the end doors. The movable bridge plate supports comprise a lower deck bridge plate support which is movable between a retractable position in which it can support the free end of the bridge plate connected to an adjacent car, and an extended position in which it may be pivotally connected to a bridge plate while spanning a door track. An upper deck bridge plate is provided which comprises a movable member and fixed member, with the movable member and fixed member in combination engaging opposite sides of one of a bridge plate for pivotal connection thereto. Each of the lower deck bridge plates includes a support member for engaging the free end of a bridge plate connected to an adjacent car, and includes a foot to support provided by the door track when in extended position. The improved lock includes lubrication conduits extending between external surfaces and lock pin apertures in top and bottom walls which are joined by a channel shaped side wall structure, and further includes circumferential channels within the interior surfaces of the lock pin apertures to, dispose between pin engaging surfaces therein, for distribution of lubricant. The flexible deflector extends inward from each of the side walls where the outer edges of the end doors to decrease or inhibit air flow around the outer edges without contacting the end doors when in closed position. The bridge plate supports, lock, and deflectors all must be sufficiently strong and durable to withstand loads imposed during railway service over extended periods of years, without failure. <IMAGE>

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**B61D 3/18** (2013.01); **B61D 3/187** (2013.01); **B61D 19/005** (2013.01)

Citation (applicant)  

- US 5765486 A 19980616 - BLACK JR JAMES E [US], et al
- US 4936227 A 19900626 - BAKER WILLIAM R [US], et al

Citation (search report)  

- [A] US 4667604 A 19870526 - BAKER WILLIAM R [US]
- [A] US 4686909 A 19870818 - BURLESON ROBERT M [US]
- [A] US 4944234 A 19900731 - HESCH HAROLD E [US]
- [AD] US 4936227 A 19900626 - BAKER WILLIAM R [US], et al

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