

## Title (en)

Railway vehicle with at least one interchangeable end module

## Title (de)

Schienenfahrzeug mit wenigstens einem austauschbaren Endmodul

## Title (fr)

Véhicule ferroviaire comportant au moins un module d'extrémité interchangeable

## Publication

**EP 0888946 A1 19990107 (FR)**

## Application

**EP 98440143 A 19980701**

## Priority

FR 9708552 A 19970702

## Abstract (en)

The steel end frame (2), bolting on to the vehicle (1), accepts a completely equipped, prefabricated driver's cab (3), quick-release connections for all mechanical and electrical controls and circuits being provided at the vehicle interface. A propulsion unit (4) is mounted under the cab. The frame front also supports impact-absorbing buffers designed to undergo plastic deformation in two stages (9,10), an underslung cow-catcher (5) and an automatic coupling (8) with its own impact absorber (11). The whole extension is enclosed in a removable fairing (7), flush-fitting to the main vehicle body.

## Abstract (fr)

La présente invention concerne un véhicule ferroviaire (1) muni d'au moins un module d'extrémité (2), sous forme d'une cabine de pilotage ou d'un module d'intercirculation entre deux extrémités de véhicules successifs, ce module étant pourvu d'une peau (7) réalisant une enveloppe esthétique de l'extrémité et assurant l'isolation et l'étanchéité de cette dernière. Véhicule ferroviaire caractérisé en ce que ledit module d'extrémité (2) est un module structurel pré-assemblé, interchangeable et indépendant et est fixé de manière démontable sur le véhicule (1). L'invention est plus particulièrement applicable dans le domaine de la construction de véhicules ferroviaires, notamment d'autorails. <IMAGE>

## IPC 1-7

**B61D 17/06**; **B61D 15/06**; **B61C 17/04**

## IPC 8 full level

**B61C 17/04** (2006.01); **B61D 15/06** (2006.01); **B61D 17/06** (2006.01)

## CPC (source: EP)

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## Citation (applicant)

- FR 2698840 A1 19940610 - DIETRICH & CIE DE [FR]
- FR 2747633 A1 19971024 - ALSTOM DDF [FR]
- EP 0533582 A1 19930324 - ALSTHOM GEC [FR]
- DE 4343800 A1 19950629 - TRANSTEC GMBH [DE]
- FR 2694255 A1 19940204 - DIETRICH & CIE DE [FR]

## Citation (search report)

- [XD] EP 0533582 A1 19930324 - ALSTHOM GEC [FR]
- [XD] DE 4343800 A1 19950629 - TRANSTEC GMBH [DE]
- [A] FR 2715904 A1 19950811 - SARDOU MAX [FR]
- [A] EP 0655565 A1 19950531 - GEC ALSTHOM TRANSPORT SA [FR]
- [A] DE 4440425 A1 19960509 - GOERLITZ WAGGONBAU GMBH [DE], et al
- [A] REVUE GENERALE DES CHEMINS DE FER, no. 11, November 1993 (1993-11-01), PARIS, FR, pages 59 - 63, XP000414426

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## DOCDB simple family (application)

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