

Title (en)

Automatic open/close operation system for train door

Title (de)

Automatisches Steuerungssystem für das Öffnen/ Schliessen von einer Tür eines Zuges

Title (fr)

Système de commande automatique pour l'ouverture/la fermeture d'une porte d'un train.

Publication

EP 0855324 A3 20000301 (EN)

Application

EP 98100745 A 19980116

Priority

JP 909797 A 19970122

Abstract (en)

[origin: EP0855324A2] An automatic train door open/close system includes a person recognition apparatus 1 for recognising the presence of person near the train door 4, implementing timetable control means 21 for controlling the operation of the train based on a train timetable, means 22 for detecting a timing for closing the door based on the person recognition apparatus at the departure of the train, a control output editing means 23 for outputting open/close control signals to the train door by editing control information on the door close operation, and a detected result display apparatus 3 for indicating whether or not the timing for closing the door is detected. When a timing for closing the cannot be detected by any reason, such as crowded passengers or the like, this condition is informed to the train operator, and a manual door close operation is proposed after confirming the condition near the door. Safety of the passengers is thus ensured. <IMAGE>

IPC 1-7

B61D 19/02; **E05F 15/00**

IPC 8 full level

B61D 19/02 (2006.01); **F01L 1/04** (2006.01); **F01L 13/00** (2006.01)

CPC (source: EP)

B61D 19/026 (2013.01)

Citation (search report)

- [AD] PATENT ABSTRACTS OF JAPAN vol. 016, no. 169 (M - 1239) 23 April 1992 (1992-04-23)
- [AD] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 07 31 July 1996 (1996-07-31)
- [A] PATENT ABSTRACTS OF JAPAN vol. 013, no. 258 (M - 838) 15 June 1989 (1989-06-15)
- [A] PATENT ABSTRACTS OF JAPAN vol. 015, no. 267 (M - 1133) 8 July 1991 (1991-07-08)

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CN109779441A; US2015298711A1; EP1382506A1; EP2778014A1; FR3003224A1; CN104044609A; US8818583B2; WO2004078552A1; US9926148B2; US10934113B2; US10032380B2; US10614718B2

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EP 0855324 A2 19980729; **EP 0855324 A3 20000301**; **EP 0855324 B1 20030409**; DE 69813052 D1 20030515; DE 69813052 T2 20040304; JP H10203361 A 19980804

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EP 98100745 A 19980116; DE 69813052 T 19980116; JP 909797 A 19970122