

Title (en)

SAFETY DEVICE FOR AN ELEVATOR SYSTEM COMPRISING A NUMBER OF ELEVATOR CARS INSIDE A SHAFT

Title (de)

SICHERHEITSEINRICHTUNG FÜR AUFZUGSSYSTEM MIT MEHREREN AUFZUGSKABINEN IN EINEM SCHACHT

Title (fr)

DISPOSITIF DE SECURITE DESTINE A UN SYSTEME D'ASCENSEUR COMPORTANT PLUSIEURS CABINES DANS UNE CAGE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2004043842A1] The invention concerns an elevator installation comprising at least one shaft, wherein at least two cars can move along a common path, and a shaft data system, which is designed to determine the positions and the speeds of the cars and which is connected to an electrical safety system. The invention aims at providing an elevator installation equipped with large transport capacity, using simple construction means, while reliably avoiding all car collision. Therefor, independently of the control units, an emergency stoppage of at least one car is triggered by means of the safety system if the distance between a first car and a second car or end-of-travel is less than a pre-definable critical distance and the parachute of at least one car can be triggered if the distance between said car and the car or a neighbouring end-of-travel is less than a predefined minimum distance. The control units of at least one set of cars of one path are interconnected and form as a whole a collective control unit.

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Citation (search report)

See references of WO 2004043841A1

Citation (third parties)

Third party :

US 1896776 A 19330207 - JAMES HENRY D

Cited by

DE102014017487A1; DE102014017486A1; WO2010072714A1; US8813919B2; DE102019104339A1; CN102264622A; US8439167B2; US8297409B2; WO2013092274A1; US9296590B2; WO2016083115A1; US10710841B2; WO2020169399A1; WO2016083114A1; US10464782B2; EP3599208A1; EP2794449B1

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