

Title (en)

SAFETY APPARATUS FOR CLOSING AND OPENING A DOOR

Title (de)

SICHERHEITSVORRICHTUNG ZUM SCHLIESSEN UND ÖFFNEN EINER TÜR

Title (fr)

INSTALLATION SECURITAIRE DE FERMETURE ET D'OUVERTURE DE PORTE

Publication

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Application

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Abstract (en)

[origin: WO2011116836A1] The invention relates in particular to an apparatus for automatically closing and opening at least one door (P) in a frame (CAD), said door being controlled by a controller (CTRL) providing a safety mode for retaining the door in an open state and, if need be, a door reopening mode in the event of an obstacle blocking the complete closure of the door into the frame, characterized by: at least one camera (CAM) having a vision axis intersecting at least the plane of the frame and providing an image of a space divided by the plane of the frame; at least one image analysis unit (AN) that isolates the regions of interest of an obstacle in the space; a calculator (CALC) for extracting at least one geometrical characteristic of each region of interest, for classifying the same into at least one closest category of different safety scenarios of known characteristics, and for outputting, to the controller, a safety signal (SEC) which activates the safety mode and which is dependent on the evaluation of a safety alarm value calculated by a formula, in accordance with the category, using at least one weighing of dimensional criteria applied to the geometrical characteristics.

IPC 8 full level

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See references of WO 2011116836A1

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