

Title (en)
SAFETY SYSTEM FOR SAFEGUARDING A MOVING, GUIDED MOTION ELEMENT AGAINST UNWANTED COLLISIONS

Title (de)
SICHERUNGSSYSTEM ZUR ABSICHERUNG EINES SICH BEWEGENDEN, GEFÜHRTEN BEWEGUNGSELEMENTS GEGEN UNGEWOLLTE KOLLISIONEN

Title (fr)
SYSTÈME DE SÉCURITÉ POUR LA SÉCURISATION D'UN ÉLÉMENT MOBILE GUIDÉ, EN DÉPLACEMENT, CONTRE DES COLLISIONS INVOLONTAIRES

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Abstract (en)
[origin: WO2009090097A2] A safety system (1) for safeguarding a moving, guided motion element (4) against unwanted collisions with an object lying on a motion path in the direction of motion (11) of the motion element (4) is proposed, which comprises an object-detection mechanism for locating an object in a region of the motion element (4), wherein said mechanism can be blocked for object recognition by a motion of the motion element (4), and an electronic unit by which the motion of the motion element (4) can be controlled and which is designed to associate a blocked state with the object-detection mechanism when the motion element (4) approaches, an object or motion element triggering no safety mode in said blocked state, wherein shut-off means are provided which transfer at least part of the object-detection mechanism to the blocked state on detection of a shut-off signal coming from the motion element (4). According to the invention, the shut-off means comprise a transmission element for a shut-off signal, which either sits directly on the motion element or which is attuned to a separate optical reflector on the motion element (4) such that a signal of the transmission element can be received by a receiver of the shut-off means only in a pre-defined area of motion of the reflector on the motion element (4).

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Citation (search report)
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Cited by
EP2845985A1; EP3530869A1; US10844646B2

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