Title (en)

DEVICE FOR INTERRUPTING LOWERING MOVEMENTS OF MOTOR-DRIVEN HOISTING GEARS AT PATIENT-LIFTING UNITS

Publication

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Application

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SE 8502026 A 19850426

Abstract (en)

[origin: EP0198946A2] The present invention relates to a device for interrupting lowering movements of motor-driven hoisting gears at patient-lifting units, whereby the hoisting gear (5) comprises an anchoring member (7) through which the hoisting gear is fixed onto a frame (3) or similar, and a displacement member (9) which is connected to the anchoring member and raisable and lowerable in relation thereto by means of a motor (17), whereby sitting and/or lying means (6) for patients is mounted on the displacement member through a bracket (21). In order to eliminate the risk of patients being caught between the sitting and/or lying means and an obstacle, e.g. a bed, and prevent the patient-lifting unit from being lifted from the floor and/or tipping because the sitting and/or lying means proceeds downwards after bumping into the obstacle, e.g. the bed, the bracket (21) is journalled on the displacement member (9) through a device (30, 32) permitting relative movements between said bracket and displacement member such that the displacement member, during lowering thereof by means of the motor (17) may proceed some distance further downwards after the sitting and/or lying means (6) has run into an obstacle (2), whereby sensing and control means (33) is provided to sense the change of position occuring between the displacement member and bracket when the displacement member proceeds further downwards while the bracket is prevented therefrom by the sitting and/or lying means bumping into said obstacle and whereby the sensing and control means is provided to control the motor to stop in dependence of said change of position and thereby interrupt continued downward movement of the displacement member.

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IPC 8 full level

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US6643861B2; US6643860B2; US6397409B1; EP0945115A3; KR20190036153A; EP0267888A3; FR2727296A1; EP3053565A1; EP0273888A3; US4875555A; GB2425361A; GB2425361B; US7971295B2; WO9001916A1; WO2011077369A1; US8085146B2; WO2006106083A1; WO2021082432A1

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