

Title (en)

LOADING DEVICE FOR A POWERED AMBULANCE COT

Title (de)

LADEVORRICHTUNG FÜR EINE ANGETRIEBENE KRANKENWAGENTRAGE

Title (fr)

DISPOSITIF DE CHARGEMENT DESTINÉ À UNE CIVIÈRE D'AMBULANCE MOTORISÉE

Publication

EP 3613397 B1 20210421 (EN)

Application

EP 19020481 A 20190819

Priority

CZ 2018422 A 20180821

Abstract (en)

[origin: EP3613397A1] A loading device for a powered ambulance cot (1) comprises a sliding guide block (4), an extension arm (3), a linear guide (2) fixedly mounted in the ambulance floor and a fastening system (5). The ambulance cot (1) is guided in the sliding guide block (4) by a main approach ramp (6), side approach ramps (7) and adjacent surfaces (8) in the longitudinal direction, wherein the blocking the movement of the ambulance cot (1) and the unblocking of the sliding guide block (4) occurs after activation of two autonomous locks (9). The unlocked sliding guide block (4) is further guided to the extension arm (3), where it is fixed by an arm lock (18) in the maximum extension position and unlocked by an arm lock lever (19) with a contact surface (27). The extension arm (3) comprises a lever mechanism (17) controlling the position of a locking axis (16) which is guided into a double-action lock (23) of the ambulance cot (1) by a surface (22). The double-acting lock (23) is unlocked when the lever (40) is pulled. The extension arm (3) is slidably mounted on the linear guide (2), which is firmly mounted in the ambulance floor. After insertion into the ambulance, the ambulance cot (1) is fixed by means of front pins (44) and a rear pin (45) in the fastening system (5), which is also firmly mounted in the ambulance floor. The fastening system comprises a front block (28), a rear block (29), and a coupling pull rod (30). The fastening system is unlocked when the ambulance cot (1) is guided by the movement of a control lever (39) which simultaneously unlocks two spring-loaded locking pins (31) in the front block and two locking blocks (36) in the rear block (29), and where the locking blocks (36) are locked automatically by means of a spring-loaded spacer (37) to guide the ambulance cot with the sliding guide block (4) and the extension arm (3) into the fastening system (5). By subsequent compression of the spring-loaded spacer (37), both locking pins (31) and both locking blocks (36) are unblocked, and thereby locked simultaneously, thereby blocking the movement of the ambulance cot (1) in all directions by the fastening system (5).

IPC 8 full level

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