

Title (en)
Door actuating device.

Title (de)
Türbetätigungsanlage.

Title (fr)
Dispositif de manoeuvre de porte.

Publication
EP 0163861 A2 19851211 (DE)

Application
EP 85104405 A 19850412

Priority
DE 3420631 A 19840602

Abstract (en)
1. Door-actuating arrangement, especially for doors in vehicles for conveying passengers, with a pressure medium-operated door drive means (22, 24) having the following features : (a) the door drive means (22, 24) has at least one actuating piston (22) having at least one active surface in the opening direction (opening surface) (21) and at least one active surface in the closing direction (closing surface) (23) of the door ; (b) a valve device (10, 26) controlling the pressure supply to the active surfaces (21 and 23) is provided which, for each active surface (21 or 23), has a blockable connecting path to its supply side ; (c) at least one setting device (17 or 29) actuated by means of a pressure medium is associated with each connecting path and controls the passage thereof ; (d) the door-actuating arrangement has a first emergency switch-off device (9, 14) and/or a second emergency switch-off device (3, 10, 26) with an emergency stopcock (3) controlling the connection between the supply side of the valve device (10, 26) and a pressure source (1) ; (e) the first emergency switch-off device (9, 14) contains a device (14) for monitoring the door resistance and emits an emergency signal when a door resistance of a predetermined magnitude occurs ; (f) on actuation of the emergency stopcock (3) of the second emergency switch-off device (3, 10, 26) the connection between the pressure source (1) and the supply side of the valve device (10, 26) is interrupted ; characterised by the features : (g) the valve device (10, 26) is so constructed that when pressure is supplied simultaneously to its setting devices (17, 29) both of its connecting paths are open ; (h) the valve device (10, 26) has associated with it an emergency valve device (third 3/2-way valve 5) which can be controlled by means of the emergency signal ; (i) the emergency valve device (third 3/2-way valve 5) i a) is connected at a first inlet (30) with the supply side of the valve device (10, 26) and at its outlet to the setting devices (17, 29) thereof, and is so constructed that on receiving the emergency signal it connects its outlet with its first inlet (30) and/or i b) has a second inlet (32) which is connected to the emergency stopcock (3) and which it connects with its outlet when there is no emergency signal present.

Abstract (de)
In einer Türbetätigungsanlage mit einem druckmittelbetätigten Türantrieb und einer Tür-Steuereinrichtung mit einer Notabschalteneinrichtung ist es bekannt, bei einer Notabschaltung den Türantrieb in beiden Betätigungsrichtungen drucklos zu machen. Zu diesem Zweck wird eine in der bekannten Türbetätigungsanlage enthaltene Ventileinrichtung über eine geeignete Stelleinrichtung und ein dieser vorgeschaltetes UND-Glied entsprechend gestellt. Das UND-Glied ist störanfällig, kompliziert und aufwendig. Zur Behebung dieses Nachteils schlägt die Erfindung vor, bei einer Notabschaltung den Türantrieb (21, 22, 23, 24) über eine Notsteuereinrichtung (5) in beiden Betätigungsrichtungen gleichzeitig mit Druck zu beaufschlagen und dadurch die Notabschaltwirkung, eine Einklemmkraft an der Tür aufzuheben oder unschädlich zu machen, sicherzustellen.

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E05F 15/02

IPC 8 full level
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CPC (source: EP)
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