

Title (en)

Device for opening or closing a door, especially a fire-door.

Title (de)

Vorrichtung zum Öffnen oder Schliessen einer Tür, insbesondere einer Feuertür.

Title (fr)

Dispositif d'ouverture ou de fermeture d'une porte, en particulier d'une porte coupe-feu.

Publication

EP 0044031 A1 19820120 (DE)

Application

EP 81105295 A 19810708

Priority

- DE 3026550 A 19800712
- DE 3041309 A 19801103

Abstract (en)

1. Means for opening a door (1), more especially a fire door, having an operating cylinder which can be actuated pneumatically or hydraulically and of which the cylinder housing (10) is fixed on the door frame, the wall or the like and of which the piston rod (21) consisting of a tube is fixed on the door (1) and which is coupled with a pressure medium source (9), so that when pressure medium is supplied, pressure medium forcing the piston rod (21) out of the cylinder housing (10) passes into the space (18) between the piston (20) and the bottom wall of the cylinder housing (10), that end region of the cylinder housing (10) which faces away from the bottom wall of the cylinder housing (10) being sealed off with respect to the piston rod (21), wherein the tubular piston rod (21), in its end region adjacent the piston (20), comprises at least one inlet opening (23, 24) for the admission of pressure medium and, in its end region remote from the piston (20), an outlet opening (29) for the discharge of pressure medium and connected to one side of a valve (27) to be opened by means of a handle or release lever (2) of the door (1), wherein a pipe line (26) connected to the piston rod (21) is provided an open end of which line is guided through the piston (20) while its other end is led out of that end region of the piston rod (21) which is remote from the piston (20), sealed off from the internal space thereof, and is connected to the other end of the valve (27), so that, with opening of the valve (27), compressed air flows from the outlet opening (25) through the pipe line (26) into the space (18) between piston (20) and bottom wall of the cylinder housing (10) and, with closing of the valve (22), compressed air is vented from the space (18) through the pipe line (26), and wherein that end region of the cylinder housing (10) which is remote from the bottom wall of the cylinder housing (10) comprises an inlet (12) for feeding pressure medium to the annular space (19) between cylinder housing (10) and piston rod (21).

Abstract (de)

Eine Vorrichtung zum Öffnen einer Tür (1) enthält einen pneumatischen oder hydraulischen Arbeitszylinder, dessen Zylindergehäuse (10) mit der Wand oder der Türzarge und dessen rohrförmige Kolbenstange (21) mit der Tür (1) verbunden ist. Dem Ringraum (19) zwischen Zylindergehäuse (10) und Kolbenstange (21) kann ein Druckmittel zugeführt werden, das durch mindestens eine nahe dem Kolben (20) vorgesehene Einlaßöffnung (23, 24) in den Innenraum der rohrförmigen Kolbenstange (21) eintritt. Der Innenraum ist mit einer Seite eines durch den Griff- oder Auslösehebel (2) betätigbaren Ventils (27) verbunden, dessen andere Seite über eine sich durch die Kolbenstange (21) erstreckende Leitung (26) in Verbindung mit dem Raum zwischen Bodenwand des Zylindergehäuses (10) und Kolben (20) steht.

IPC 1-7

E05F 15/02

IPC 8 full level

E05F 15/02 (2006.01); **E05F 15/56** (2015.01)

CPC (source: EP)

E05F 15/50 (2015.01); **E05F 15/56** (2015.01); **E05Y 2900/134** (2013.01)

Citation (search report)

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CN110685532A; EP0309599A1; FR2522084A1

Designated contracting state (EPC)

AT BE CH DE FR GB IT NL SE

DOCDB simple family (publication)

EP 0044031 A1 19820120; **EP 0044031 B1 19840215**; DE 3162286 D1 19840322

DOCDB simple family (application)

EP 81105295 A 19810708; DE 3162286 T 19810708