

Title (en)

APPARATUS FOR ADJUSTING AND RELEASING A FIRE DAMPER AND AN APPARATUS FOR OPERATING A FIRE DAMPER

Publication

**EP 0214960 B1 19890906 (EN)**

Application

**EP 85901446 A 19850301**

Priority

FI 8500018 W 19850301

Abstract (en)

[origin: WO8605107A1] An apparatus for adjusting and releasing a fire damper, and an apparatus for operating the fire damper. The adjusting and releasing apparatus is particularly suited for opening and closing a plate-type fire damper installed in a ventilation duct, and the operating apparatus (21) is suited to be employed as a remote manipulator for the fire damper. The fire damper comprises a housing (3) and a closing plate (4) located therein, which closing plate is used for closing the ventilation duct. The closing plate (4) is geared to the housing (3) by means of an axis (5). At both ends of the axis (5) there are attached locking springs (6). The adjusting and releasing apparatus comprises a catch (8) attached to the closing plate (4), which catch is a circle-segment shaped plate provided with notches (9) at the edge, and the adjusting and releasing member (10) of the closing plate (4) of the fire damper, which member is provided with an arrester moving within a sleeve-like frame. By aid of a notch provided in the catch (8), the arrester locks the closing plate (4) of the fire damper into desired position. In connection with the arrester there is provided a spring (17) manufactured of a metal which changes, its form within a certain temperature range. By aid of the spring (17), the fire damper is closed automatically in a given temperature of the air flow. The operating apparatus (21) comprises a tubular shell (22) with a moving shaft fitted therein. The first end of the shaft is connected to the adjusting and releasing apparatus, and the other end is furnished with a manual press key (34). Inside the shell (22) there is located a piston connected to the shaft, and a cylinder chamber connected to a pressure control connection (29). Inside the shell (22) there can also be installed a coil which is coupled to an electric control connection (31).

IPC 1-7

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IPC 8 full level

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CPC (source: EP)

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