

Title (en)

A safety device in hydraulically operated working-platform elevators.

Title (de)

Sicherheitseinrichtung für hydraulisch angetriebene Hubvorrichtungen mit Arbeitsplattform.

Title (fr)

Dispositif de sécurité pour élévateurs, avec plate-forme de travail, actionnés hydrauliquement.

Publication

EP 0047726 A2 19820317 (EN)

Application

EP 81850151 A 19810907

Priority

SE 8006230 A 19800908

Abstract (en)

A safety device in working-platform elevators and the like. The elevator comprises two interconnected booms (4 and 7), the lower one (4) of which is mounted to a chassis-mounted stand (3). The working platform or personnel carrier (10) which is connected to the upper boom, is maintained in position by upper and lower parallel arms (11 and 12). These arms are interconnected by a link (13). The upper boom movements relative to the lower boom is controlled by a hydraulic piston-and-cylinder unit (15). The device is automatically activated upon occurrence of a predetermined angle between the upper boom (7) of the elevator and ground level or is manually operated via controls from the platform. The device comprises a linkage system comprising four link arms (17, 18, 19, 20) interconnecting the hydraulic piston-and-cylinder unit valve with a segment (21). The latter is actuated either by an abutment member (22) on the upper boom or by an actuating means operated from the platform. Movement of the segment resulting from such actuation is transferred via the linkage system to the valve, and the lower boom is lowered. The safety device ensures that the elevator booms cannot assume positions beyond the intended operational range of the elevator and that electric faults and the like cannot prevent lowering of the platform.

IPC 1-7

B66F 17/00; B66F 11/04

IPC 8 full level

B66F 9/24 (2006.01); **B66F 17/00** (2006.01)

CPC (source: EP)

B66F 17/006 (2013.01)

Cited by

EP0117120A3; US4643273A; JPS60169342A; DE4407695A1; EP1291314A3; DE19712406A1; DE19712406B4; SG82672A1; FR2527581A1; US6405114B1; EP0099636B1

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