Title (en)

### Hydraulic lift

Title (de)

Hydraulischer Aufzug

Title (fr)

Ascenseur hydraulique

Publication

## EP 2199244 A1 20100623 (EN)

Application EP 09

# EP 09179422 A 20091216

Priority

IT GE20080106 A 20081219

Abstract (en)

Hydraulic lift, comprising: a fixed tubular riser (17) which is mounted, at its ends, by means of suitable connections between the floor (4) of the lift cabin travel shaft and the ceiling (12) of said shaft and communicates at its ends with unions (18, 19) for supplying and discharging a hydraulic fluid; at least one fixed cylindrical piston (121) which is positioned halfway along the height concentrically with said tubular riser (17); at least one fixed diaphragm (221) which is situated at the height of said cylindrical piston (121) and which divides said tubular riser (17) into two chambers (26; 126) which are not interconnected; a cylinder (16) coaxial with said tubular riser (17) and defining a cylindrical cavity (20; 120) sealingly housing said fixed cylindrical piston (121); said cylinder (16) having a length equal to about half the length of said tubular riser (17) and said cylinder (16) being able to slide relative to said fixed piston (121) from one end to the other of said tubular riser (17); communication apertures (23; 24) on the two sides of said fixed piston (121) able to connect said two chambers (26, 126) of the tubular riser to said cylindrical cavity (20; 120) of the said movable cylinder (16); means for supplying alternately the pressurised fluid into said two chambers (26; 126) of the tubular riser (17) so as to cause said on the ceiling (12) of the travel shaft of the lift cabin (1); at least one first pair of idle pulleys (11) which are each fixed to an anchoring point situated on the ceiling (12) of the travel shaft of the lift cabin (1); at least one second pair of idle pulleys (13) mounted on said movable cylinder in diametrically opposite positions relative thereto; at least one pair of cables (2) for suspending a cabin (1), which are secured at one end to the ceiling (12) and driven around said second pair of idle pulleys (13) and from the latter pass around said first pair of idle pulleys (11) and are then secured to the structure of the cabin (1), and means (15) for counterbalancing

### IPC 8 full level

B66B 9/04 (2006.01)

CPC (source: EP)

B66B 9/04 (2013.01)

Citation (search report)

- [X] EP 0254840 A2 19880203 GEBAUER AG [CH]
- [X] DE 3002577 A1 19810730 MASCHF AUGSBURG NUERNBERG AG [DE]
- [X] JP 2001063939 A 20010313 OIL DRIVE KOGYO KK
- [X] WO 0071456 A1 20001130 WITTUR AG [CH], et al

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