

Title (en)
Passenger transport system

Title (de)
Personen-Fördersystem

Title (fr)
Système de transport de passagers

Publication
EP 0556595 B1 19960327 (DE)

Application
EP 93101052 A 19930125

Priority
CH 46392 A 19920217

Abstract (en)
[origin: US5501295A] A cableless elevator system for very high buildings includes several vertical travel shafts with apparatus at the floors for horizontal travel of the elevator cars between shafts. Several cars can move in the same shaft at the same time. Vertically extending shaft wall strips positioned between the shafts have horizontal guide channels and vertical rolling tracks formed therein. During vertical travel, upper and lower guide rollers on the cars engage the rolling tracks and the cars are moved by a combination of a linear drive and a friction drive. The friction drive utilizes battery powered electrical motors to drive the lower guide rollers. The linear drive has linear motor stators attached to the shaft rear wall and permanent magnets on the cars. During horizontal movement, the upper and lower guide rollers engage the horizontal guide channels and the lower rollers move the car. The vertical strips include pieces at the horizontal guide channels which close gaps in the rolling tracks during vertical movement of the cars and are pivoted to open the horizontal guide channels for horizontal movement of the cars.

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B66B 1/14; **B66B 9/02**

IPC 8 full level
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CPC (source: EP US)
B66B 9/00 (2013.01 - EP US); **B66B 9/02** (2013.01 - EP US)

Cited by
WO2012045606A1; DE102004025664A1; EP0846646A1; AT407037B; DE102019205898A1; CN101973473A; US6189657B1; US9487377B2

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