



Abstract

Elevator Car Door Coupling

A coupling for causing an elevator car door (13) to engage an elevator hoistway door (48) includes a pair of vanes (33,34), each end of each vane being pivoted on a link (22,23) connecting it with the other vane, the links being disposed for rotation between said two vanes on the elevator car door thereby forming a parallelogram. The vanes extend vertically between four rollers (40-43) which rotate about horizontal axles (44-47) disposed at the top of the hoistway door, and which provide rotationally stiff coupling. A solenoid actuator (14) can move one vane up to cause the parallelogram to shrink into an uncoupled position. When the actuator is energized, a spring (49) causes the parallelogram to spread so that the vanes are wedged between the rollers and the two doors are coupled together.