Title (en)
CABLE CAR OR CHAIR LIFT WITH AN ELECTRIC DRIVE

Publication
EP 0181243 B1 19881228 (FR)

Application
EP 85401957 A 19851008

Priority
FR 8415865 A 19841015

Abstract (en)
[origin: US4641584A] A detachable chair or gondola lift is disclosed wherein an alternator is driven by a rope bull-wheel. The alternator supplies a synchronous motor for driving friction wheels or other mechanisms for driving the cars in an end station of the chair or gondola lift. The electrical connection between the alternator and the synchronous motor ensures synchronous rotation of the motor. The alternator can be connected to the bull-wheel by a multiplier gear, the bull-wheel being either a tension bull-wheel or a driving bull-wheel. In the case of a tension bull-wheel, the alternator is mounted on the bull-wheel support carriage to avoid a flexible mechanical transmission. The alternator can be coupled to the high speed shaft of a driving bull-wheel reducer gear, for example, by a trapizoidal belt transmission. At low speed, the excitation of the alternator is increased to preserve the synchronism of the movements. Such excitation is accomplished by an auxiliary power source, or by self excitation by suitable permanent magnets and filters.

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B61B 12/02

IPC 8 full level
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CPC (source: EP US)
B61B 12/022 (2013.01 - EP US); **B61B 12/105** (2013.01 - EP US)

Cited by
CN105896899A; EP0275403A1; EP0454596A1; FR2661147A1; CN106080615A

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