Claims

1. An elevator installation (1) comprising a car (2) and a counterweight (4) interconnected by one or more suspension ropes (6) engaging a traction sheave (12) which is driven by a motor (10), and configured to enhance traction between the suspension ropes (6) and the traction sheave (12) independently of the counterweight (4) for temporary transportation of an overload, wherein the motor (10) windings are switchable from parallel to series configuration.

2. An elevator installation (1) according to claim 1, further comprising an actuator (24) applying force (F_c) to a compensation rope (6) suspended between the car (2) and the counterweight (4).

3. An elevator installation (1) according to claim 1 wherein the suspension ropes (6) between the car (2) and the counterweight (4) follow a path over the traction sheave (12) and a deflection pulley (14) whereby the deflection pulley (14) is displaceable.

4. An elevator installation (1) according to claim 1 wherein the suspension ropes (6) between the car (2) and the counterweight (4) follow a path over the traction sheave (12) and a deflection pulley (14) further comprising an additional pulley (30) between the sheave (12) and the deflection pulley (14).

5. An elevator installation (1) according to claim 1, further comprising a pressure exertion device (40) to exert a pressure on the suspension ropes (6) as they engage the traction sheave (12) over a wrap angle (α).

6. An elevator installation (1) according to claim 5 wherein the pressure exertion device (40) comprises a tensioned, closed-loop belt (42) entrained over one or more rollers (44).

7. An elevator installation (1) according to claim 1, further comprising a traction sheave liner (48) between the traction sheave (12) and the suspension ropes (6).

8. An elevator installation (1) according to claim 1 wherein the counterweight (4) is

designed so that its total mass is equal to or greater than the sum of the mass of the empty elevator car (2) plus 50% of the nominal rated load so that during temporary transportation of the overload the elevator is underbalanced.