

(12) **United States Patent**
Salmi

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(54) **ROPE WHEEL ASSEMBLY, COMPENSATOR AND ELEVATOR ARRANGEMENT**

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(57) **ABSTRACT**

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A rope wheel assembly of an elevator includes a frame, a plurality of rope wheels for guiding ropes of the elevator, and a plurality of bearings. The rope wheels are mounted coaxially on the frame such that they are rotatable relative to the frame as well as relative to each other. The rope wheel assembly includes a central shaft passing through the rope wheels, which central shaft is non-rotatable relative to the frame, and the rope wheel assembly includes a hollow cylinder surrounding the central shaft, the hollow cylinder being mounted on the central shaft rotatably relative to the central shaft, each said rope wheel being mounted on the cylinder rotatably relative to the cylinder. The rope wheel assembly includes a bearing axially between rope wheels that are next to each other via which bearing they are supported on each other in axial direction. A compensator and an elevator arrangement implementing the rope wheel assembly are also disclosed.

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(52) **U.S. Cl.**

CPC **B66B 15/02** (2013.01); **F16C 19/14** (2013.01); **F16C 33/6637** (2013.01); **F16H 57/0471** (2013.01)

(58) **Field of Classification Search**

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See application file for complete search history.

20 Claims, 3 Drawing Sheets

