

Title (en)  
ELEVATOR HAVING A SUSPENSION

Title (de)  
AUFZUG MIT EINEM TRAGMITTEL

Title (fr)  
ASCENSEUR AVEC UN MOYEN DE SUPPORT

Publication  
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Application  
**EP 08839287 A 20081015**

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Abstract (en)  
[origin: WO2009050182A2] The invention relates to an elevator comprising a cab (3), a counterweight (8), a suspension (12) working together with the cab and the counterweight, and a wheel (4.1, 4.2, 4.3, 4.4) at least partially wound around by the suspension, wherein the suspension comprises a tie beam arrangement made of two tie beams (14) and a shell (13) encasing the tie beam arrangement, said shell comprising a longitudinal structure in an area of an outer surface (13.1) partially winding around the wheel (4.1, 4.2, 4.3, 4.4), and wherein the ratio of the width (B) of the suspension to the height (H) thereof is greater than one and less than or equal to three ( $1 < B/H = 3$ ). The wheel comprises a groove (15) for guiding the suspension on the sides, in which the suspension is at least partially received, and the groove floor (15.1) thereof being formed flat. The shell (13) is coated, at least in areas, on the outer surface (13.1) thereof, wherein the coating optionally has a friction-reducing, friction-increasing, and/or wear-reducing effect.

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Cited by  
US2013206516A1; US9126805B2; FR3143046A1

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