

Title (en)  
Elevator

Title (de)  
Aufzug

Title (fr)  
Ascenseur

Publication  
**EP 2390221 A1 20111130 (EN)**

Application  
**EP 11171675 A 20030219**

Priority  
• EP 03815967 A 20030219  
• JP 0301801 W 20030219

Abstract (en)  
An elevator comprises: a car (1) ascending and descending inside a hoistway; a counterweight (20) ascending and descending inside said hoistway interdependently with said car (1); a car rope (21) by which said car (1) and said counterweight (20) are suspended inside said hoistway; and a hoisting machine (22a, 22b) mounted to said counterweight (20) for raising and lowering said car (1) and said counterweight (20) by moving said car rope (21), wherein said elevator further comprises: a hoisting machine rope (27a, 27b) having an upper end portion connected directly or indirectly to a ceiling of said hoistway, a lower end portion connected to a floor surface of said hoistway, and an intermediate portion wound onto said hoisting machine (22a, 22b).

IPC 8 full level  
**B66B 7/06** (2006.01); **B66B 11/00** (2006.01); **B66B 17/12** (2006.01)

CPC (source: EP)  
**B66B 11/0055** (2013.01); **B66B 11/009** (2013.01); **B66B 17/12** (2013.01)

Citation (applicant)  
WO 0053520 A1 20000914 - HITACHI LTD [JP], et al

Citation (search report)  
• [XY] WO 9943592 A1 19990902 - OTIS ELEVATOR CO [US]  
• [XYI] EP 0565516 A1 19931013 - HAGEL WERNER [AT]  
• [XYI] JP H0356399 A 19910311 - HITACHI LTD, et al  
• [Y] US 6085874 A 20000711 - UCHINO YASUNOBU [JP], et al

Cited by  
WO2016005612A1

Designated contracting state (EPC)  
DE

DOCDB simple family (publication)  
**EP 1595840 A1 20051116; EP 1595840 A4 20110413; EP 1595840 B1 20130814**; CN 1741950 A 20060301; EP 2390221 A1 20111130; JP WO2004074157 A1 20060601; WO 2004074157 A1 20040902

DOCDB simple family (application)  
**EP 03815967 A 20030219**; CN 03825922 A 20030219; EP 11171675 A 20030219; JP 0301801 W 20030219; JP 2004568473 A 20030219