

Title (en)  
ELEVATOR DEVICE

Title (de)  
AUFZUGSVORRICHTUNG

Title (fr)  
DISPOSITIF ELEVATEUR

Publication  
**EP 1172321 B1 20090121 (EN)**

Application  
**EP 00904099 A 20000222**

Priority  
JP 0001008 W 20000222

Abstract (en)  
[origin: EP1172321A1] In an elevator apparatus, a car is raised and lowered by a gear-less type driving machine in which a traction sheave is directly rotated by a motor. The driving machine is disposed at an upper portion in a hoistway. A portion of the driving machine is disposed inside an area on which the car is projected in its raising and lowering direction. <IMAGE>

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

CPC (source: EP)  
**B66B 11/0045** (2013.01)

Cited by  
US2009071760A1; EP1516844A4; US8172041B2; US7458308B2

Designated contracting state (EPC)  
DE FR NL

DOCDB simple family (publication)  
**EP 1172321 A1 20020116; EP 1172321 A4 20060419; EP 1172321 B1 20090121**; CN 1178843 C 20041208; CN 1348427 A 20020508;  
DE 60041439 D1 20090312; WO 0162654 A1 20010830

DOCDB simple family (application)  
**EP 00904099 A 20000222**; CN 00806619 A 20000222; DE 60041439 T 20000222; JP 0001008 W 20000222