

Title (en)  
ELEVATOR DEVICE

Title (de)  
AUFZUGSVORRICHTUNG

Title (fr)  
DISPOSITIF D'ASCENSEUR

Publication  
**EP 1319627 A4 20080903 (EN)**

Application  
**EP 00957123 A 20000912**

Priority  
JP 0006230 W 20000912

Abstract (en)  
[origin: EP1319627A1] In an elevator apparatus, first and second main rope connection portions are disposed on a car so as to be positioned on opposite sides of the car in a vertical plane of projection. First and second car return sheaves are disposed in an upper portion inside a hoistway above the first and second main rope connection portions. A counterweight return sheave is disposed in an upper portion inside the hoistway above a counterweight. A main rope group has: a first main rope, a first end portion of which passes through the first car return sheave and is connected to the first main rope connection portion and a second end portion of which passes through the counterweight return sheave and is connected to the counterweight; and a second main rope, a first end portion of which passes through the second car return sheave and is connected to the second main rope connection portion and a second end portion of which passes through the counterweight return sheave and is connected to the counterweight. <IMAGE>

IPC 1-7  
**B66B 7/00**; B66B 7/06; B66B 11/08

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

CPC (source: EP)  
**B66B 11/0045** (2013.01); **B66B 11/008** (2013.01)

Citation (search report)  
• [YA] EP 0953538 A2 19991103 - TOSHIBA KK [JP]  
• [Y] EP 1018480 A2 20000712 - MITSUBISHI ELECTRIC CORP [JP]  
• See references of WO 0222486A1

Cited by  
EP1818303A1; EP1792867A4; EP1693329A4; US7331424B2

Designated contracting state (EPC)  
CH DE FR LI NL

DOCDB simple family (publication)  
**EP 1319627 A1 20030618**; **EP 1319627 A4 20080903**; **EP 1319627 B1 20091209**; CN 1178844 C 20041208; CN 1387491 A 20021225; DE 60043516 D1 20100121; EP 2042462 A1 20090401; EP 2042462 B1 20110518; JP WO2002022486 A1 20040122; WO 0222486 A1 20020321

DOCDB simple family (application)  
**EP 00957123 A 20000912**; CN 00815406 A 20000912; DE 60043516 T 20000912; EP 09150612 A 20000912; JP 0006230 W 20000912; JP 2002526687 A 20000912