

Title (en)

Traction elevator system using a flexible flat rope

Title (de)

Treibscheibenaufzugsystem mit flexiblem Flachseil

Title (fr)

Système d'ascenseur à traction dans lequel un câble plat et souple est utilisé

Publication

**EP 1391413 B2 20220309 (EN)**

Application

**EP 03024661 A 19990219**

Priority

- US 3110898 A 19980226
- US 16941598 A 19981009
- US 21899098 A 19981222
- EP 99936066 A 19990219
- US 9903643 W 19990219

Abstract (en)

[origin: EP1391413A2] A traction elevator system includes a machine having a rotor including permanent magnets and a flat rope engaged with the machine. The flat rope including one or more load-carrying members retained within a common sheath from a non-metallic material.

IPC 8 full level

**B66B 7/06** (2006.01); **B66B 11/04** (2006.01)

CPC (source: EP)

**B66B 11/0438** (2013.01)

Citation (opposition)

Opponent :

- WO 9829327 A1 19980709 - KONE CORP [FI], et al
- GB 1401197 A 19750716 - VOGEL R

Cited by

EP2072447A1; US9428364B2; EP1517850A1

Designated contracting state (EPC)

DE ES FR IT PT

DOCDB simple family (publication)

EP 1391413 A2 20040225; EP 1391413 A3 20061220; EP 1391413 B1 20141224; EP 1391413 B2 20220309; ES 2399413 T1 20130401; ES 2399413 T3 20150128; ES 2399413 T5 20220607

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