

Title (en)

AN AUTOMATIC LOAD RESPONSIVE WINCH

Publication

**EP 0521109 A4 19940810 (EN)**

Application

**EP 91907622 A 19910321**

Priority

- AU PJ922490 A 19900321
- US 9101804 W 19910321

Abstract (en)

[origin: WO9114646A1] An automatic load responsive winch includes a base (43), a winch drum (14, 110) rotatably mounted on the base, and a rotatable drive shaft (12, 100) for driving the winch drum. At least two gear trains are mounted on driven shafts (44, 45, 102, 104, 106) and are linked between the drive shaft and the drum for rotating the drum in response to rotation of the drive shaft. One of the two gear trains produces a different drum speed than the other gear train. When a variable torque load is applied to one of the shafts via the drum, a mechanism (26) is displaceable vertically with respect to one of the shafts in response to changes in torque load. The mechanism includes a means (29, 30) for engaging one of the gear trains at a first vertical position of the mechanism and for disengaging the one gear train at a second vertical position to isolate the gear train and provide for rotation of said drum by the other gear train.

IPC 1-7

**B66D 1/24**

IPC 8 full level

**B66D 1/74** (2006.01)

CPC (source: EP)

**B66D 1/7431** (2013.01); **B66D 1/7484** (2013.01)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 9114646A1

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

**WO 9114646 A1 19911003**; DE 69126426 D1 19970710; DE 69126426 T2 19980212; EP 0521109 A1 19930107; EP 0521109 A4 19940810; EP 0521109 B1 19970604

DOCDB simple family (application)

**US 9101804 W 19910321**; DE 69126426 T 19910321; EP 91907622 A 19910321