

Title (en)  
CAPSTAN WINCH

Title (de)  
SPILLHASPEL

Title (fr)  
TREUIL DU TYPE DIT A CABESTAN

Publication  
**EP 1546017 A1 20050629 (FR)**

Application  
**EP 03775495 A 20030826**

Priority  
• FR 0350040 W 20030826  
• FR 0210649 A 20020828

Abstract (en)  
[origin: US7175163B2] The invention concerns a so-called capstan winch ( 1 ) comprising drums ( 2, 3 ) driving a cable (C) and provided with a peripheral wall ( 22, 32 ) around which are strung independent peripheral rings ( 40-45, 50-55 ). Said rings are provided with a peripheral groove designed to receive the cable (C) and are made of an elastic material so as to allow both the cable (C) to be driven and a relative sliding movement between the peripheral rings ( 40-45, 50-55 ) and the peripheral wall ( 22, 32 ), the relative sliding movement being of amplitude substantially equal to longitudinal deformation of the cable (C), when it is subjected to tension stresses. The two drums ( 2, 3 ) can be axially offset relative to each other (p/2) and their axes of rotation ( $\Delta_1$ ,  $\Delta_2$ ), may form a non-null angle of inclination. The invention is particular applicable to deep sea oil exploration.

IPC 1-7  
**B66D 1/74**

IPC 8 full level  
**B66D 1/74** (2006.01)

CPC (source: EP US)  
**B66D 1/7405** (2013.01 - EP US)

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)  
**US 2006022182 A1 20060202; US 7175163 B2 20070213**; AT E481351 T1 20101015; AU 2003283521 A1 20040319; CA 2496944 A1 20040311; CA 2496944 C 20120814; DE 60334228 D1 20101028; EP 1546017 A1 20050629; EP 1546017 B1 20100915; FR 2843953 A1 20040305; FR 2843953 B1 20050408; WO 2004020323 A1 20040311

DOCDB simple family (application)  
**US 52566305 A 20050722**; AT 03775495 T 20030826; AU 2003283521 A 20030826; CA 2496944 A 20030826; DE 60334228 T 20030826; EP 03775495 A 20030826; FR 0210649 A 20020828; FR 0350040 W 20030826