Title (en)
Rope length gauge

Title (de)
Seillängengeber

Title (fr)
Capteur de longueur de corde

Publication
EP 1077195 A1 20010221 (DE)

Application
EP 00116347 A 20000728

Priority
DE 19939223 A 19990819

Abstract (en)
The cable (32) dispenser has air gaps (48, 50) between the cable and inner (30) and outer (40) dispensing channels. These are connected by a central chamber (41) into which compressed air is fed via inlets (42, 44).

Abstract (de)
Bei einem Meßseilausgang für das Meßseil (32) eines Seillängengebers ist das Meßseil (32) mit Luftspalt (50;48) nacheinander durch einen inneren und einen äußeren Durchgang (30;40) geführt. Zwischen den beiden Durchgängen (30,40) ist eine Kammer (41) gebildet. Über einen Drucklufteinlaß (42,44) ist Druckluft in diese Kammer (41) einleitbar. Dann tritt durch den äußeren Durchgang um das Meßseil herum ein Druckluftstrom aus, der Schmutz und Nässe von dem Meßseil abbläst. <IMAGE>

IPC 1-7 (main, further and additional classification)
B65H 75/44

IPC 8 full level (invention and additional information)
B65H 57/12 (2006.01); **B65H 75/42** (2006.01); **B65H 75/44** (2006.01)

CPC (invention and additional information)
B65H 57/12 (2013.01); **B65H 75/42** (2013.01); **B65H 75/4402** (2013.01); B65H 2301/5115 (2013.01); B65H 2701/35 (2013.01)

Citation (search report)
- [DY] DE 29716524 U1 19980212 - OELSCH FERNSTEUERGERAETE [DE]
- [Y] DE 3803919 A1 19890817 - INTERATOM [DE]

Designated contracting state (EPC)
AT FI FR IT NL SE

EPO simple patent family
EP 1077195 A1 20010221; EP 1077195 B1 20031008; AT 251587 T 20031015; DE 19939223 C1 20010308

INPADOC legal status

2012-09-28 [PG25 SE] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : SE
- Free text : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES
- Effective date : 20100729

2011-05-31 [PG25 IT] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : IT
- Free text : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES
- Effective date : 20100728

2011-05-31 [PG25 NL] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : NL
- Free text : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES
- Effective date : 20110201

2011-05-31 [PG25 AT] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : AT
- Free text : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES
- Effective date : 20100728

2011-05-31 [PG25 FR] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : FR
- Free text : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES
- Effective date : 20100802

2011-05-31 [PG25 FI] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : FI

- Free text : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES
- Effective date : 20100728

2011-04-22 [REG FR ST] NOTIFICATION OF LAPSE
- Effective date : 20110331

2011-02-16 [REG NL V1] LAPSED BECAUSE OF NON-PAYMENT OF THE ANNUAL FEE
- Effective date : 20110201

2010-04-30 [PGFP IT] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : IT
- Payment date : 20090728
- Year of fee payment : 10

2009-11-30 [PGFP AT] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : AT
- Payment date : 20090723
- Year of fee payment : 10

2009-11-30 [PGFP FI] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : FI
- Payment date : 20090727
- Year of fee payment : 10

2009-11-30 [PGFP NL] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : NL
- Payment date : 20090724
- Year of fee payment : 10

2009-11-30 [PGFP SE] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : SE
- Payment date : 20090727
- Year of fee payment : 10

2009-10-30 [PGFP FR] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : FR
- Payment date : 20090720
- Year of fee payment : 10

2004-09-29 [26N] NO OPPOSITION FILED
- Effective date : 20040709

2004-07-02 [ET] FR: TRANSLATION FILED

2003-12-16 [REG SE TRGR] TRANSLATION OF GRANTED EP PATENT

2003-10-08 [AK] DESIGNATED CONTRACTING STATES:
- Kind Code of Ref Document : B1
- Designated State(s) : AT FI FR IT NL SE

2002-02-21 [REG DE 8566] DESIGNATED COUNTRY DE NOT LONGER VALID

2001-11-14 [AKX] PAYMENT OF DESIGNATION FEES
- Free text : AT FI FR IT NL SE

2001-10-31 [17Q] FIRST EXAMINATION REPORT
- Effective date : 20010917

2001-06-13 [17P] REQUEST FOR EXAMINATION FILED
- Effective date : 20010404

2001-02-21 [AK] DESIGNATED CONTRACTING STATES:
- Kind Code of Ref Document : A1
- Designated State(s) : AT FI FR IT NL SE

2001-02-21 [AX] REQUEST FOR EXTENSION OF THE EUROPEAN PATENT TO:
- Free text : AL;LT;LV;MK;RO;SI