Title (en)
Compact cable traction device

Title (de)
Kompaktes Durchlaufseilzuggerät

Title (fr)
Dispositif compact de traction pour câbles

Publication
EP 0677480 B1 20010124 (DE)

Application
EP 95200739 A 19950324

Priority
IT BZ940017 A 19940324

Abstract (en)
[origin: EP0677480A1] The device has a drive disc (1) which is immovably fixed in the frame (6). A tension rod (3) in the frame, as connection between the pressure rollers (4) and the fixed anchor point (5), is movably mounted. The pressure rollers are pressed radially against the periphery of the drive disc or onto the intermediate cable (2) by a force corresponding to the cable tension (T). The drive is provided by a planetary gear incorporated in the drive disc. The annular gap between the drive disc's periphery and the hole in the frame is filled by a number of roller bodies (7). <IMAGE>

IPC 1-7 (main, further and additional classification)
B66D 1/74

IPC 8 full level (invention and additional information)
B66D 1/74 (2006.01)

CPC (invention and additional information)
B66D 1/7415 (2013.01)

Cited by
US6098962A; EP0863105A3

Designated contracting state (EPC)
AT BE CH DE ES FR GB GR LI NL SE

EPO simple patent family
EP 0677480 A1 19951018; EP 0677480 B1 20010124; AT 198864 T 20010215; DE 59508985 D1 20010301; IT 1281929 B1 19980303; IT BZ940017 A1 19950925; IT BZ940017 D0 19940324

INPADOC legal status

2005-01-07 [REG FR ST] NOTIFICATION OF LAPSE

2004-11-30 [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 : 20041130

2004-11-15 [REG CH PL] PATENT CEASED

2004-10-01 [PG25 DE] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : DE
- Free text : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES
- Effective date : 20041001

2004-03-31 [PG25 CH] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : CH
- Free text : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES
- Effective date : 20040331

2004-03-31 [PG25 LI] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : LI
- Free text : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES
- Effective date : 20040331

2003-03-18 [PGFP CH] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : CH
- Payment date : 20030318
- Year of fee payment : 9

2003-02-28 [PGFP FR] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : FR
- Payment date : 20030228

- Year of fee payment : 9

2003-02-26 [PGFP DE] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : DE
- Payment date : 20030226
- Year of fee payment : 9

2002-01-16 [26N] NO OPPOSITION FILED

2001-09-30 [BERE] BE: LAPSED
- Owner name : HABEGGER MASCHINENFABRIK A.G. THUN
- Effective date : 20010331

2001-07-25 [GBV] GB: EP PATENT (UK) TREATED AS ALWAYS HAVING BEEN VOID IN ACCORDANCE WITH GB SECTION 77(7)/1977
- Effective date : 20010124

2001-07-02 [NLV1] NL: LAPSED OR ANNULLED DUE TO FAILURE TO FULFILL THE REQUIREMENTS OF ART. 29P AND 29M OF THE PATENTS ACT

2001-05-11 [ET] FR: TRANSLATION FILED

2001-03-31 [PG25 BE] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : BE
- Free text : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES
- Effective date : 20010331

2001-03-24 [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 : 20010324

2001-03-01 [REF] CORRESPONDS TO:
- Document : DE 59508985 20010301

2001-01-31 [REG CH EP] ENTRY IN THE NATIONAL PHASE

2001-01-31 [REG CH NV] NEW AGENT
- Representative's name : KELLER & PARTNER PATENTANWAELTE AG

2001-01-24 [AK] DESIGNATED CONTRACTING STATES:
- Kind Code of Ref Document : B1
- Designated State(s) : AT BE CH DE ES FR GB GR LI NL SE

2001-01-24 [PG25 ES] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : ES
- Free text : THE PATENT HAS BEEN ANNULLED BY A DECISION OF A NATIONAL AUTHORITY
- Effective date : 20010124

2001-01-24 [PG25 GR] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : GR
- Free text : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES
- Effective date : 20010124

2001-01-24 [PG25 SE] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : SE
- Free text : THE PATENT HAS BEEN ANNULLED BY A DECISION OF A NATIONAL AUTHORITY
- Effective date : 20010124

2001-01-24 [PG25 GB] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : GB
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20010124

2001-01-24 [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 FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT

- Effective date : 20010124

2001-01-24 [REF] CORRESPONDS TO:
- Document : AT 198864 T 20010215

1999-08-18 [17Q] FIRST EXAMINATION REPORT
- Effective date : 19990701

1998-10-07 [RAP1] TRANSFER OF RIGHTS OF AN APPLICATION
- Owner name : HABEGGER MASCHINENFABRIK AG THUN

1996-06-12 [17P] REQUEST FOR EXAMINATION FILED
- Effective date : 19960417

1995-10-18 [AK] DESIGNATED CONTRACTING STATES:
- Kind Code of Ref Document : A1
- Designated State(s) : AT BE CH DE ES FR GB GR LI NL SE