Title (en)
MULTIMEDIA SHAFT BUILDING

Title (de)
MULTIMEDIA-SCHACHTBAUWERK

Title (fr)
PUITS POUR LE TRANSPORT DE DIFFERENTS FLUIDES, D'ENERGIE OU D'INFORMATIONS

Publication
EP 1238171 A2 20020911 (DE)

Application
EP 00990514 A 20001208

Priority
- DE 0004391 W 20001208
- DE 19959065 A 19991208

Abstract (en)
[origin: WO0142574A2] The invention relates to a shaft building comprising a monolithically-shaped shaft lower part, whereupon one or more shaft pipes and/or shaft rings and a cone can be placed depending on the embodiment involved. Channels for different media lines designed for liquid and gas-phase media, for energy or for information are preferably located on the outer wall or in the wall of the shaft ring or shaft pipe or in the shaft lower part. One shaft ring or pipe can have one or more channels for media lines. Said channels pertaining to the individual media lines are preferably aligned above each other, thereby providing the smallest possible nominal width of the shaft building which does not impair the accessibility of the shaft and represents an economically feasible solution. The decisive advantage of the innovative shaft building is that different media are integrated into lines in a single shaft building. Costs associated with inspection and maintenance are significantly reduced. When new lines are constructed or lines are serviced through which different media have been previously transported separately, costs associated with the construction of other shaft buildings are saved.

IPC 1-7 (main, further and additional classification)
E03F 5/02

IPC 8 full level (invention and additional information)
E02D 29/12 (2006.01); **E03F 5/02** (2006.01)

CPC (invention and additional information)
E02D 29/124 (2013.01); **E02D 29/12** (2013.01); **E03F 5/02** (2013.01)

Citation (search report)
See references of WO 0142574A3

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

EPO simple patent family
WO 0142574 A2 20010614; WO 0142574 A3 20020124; AT 291665 T 20050415; AU 3000201 A 20010618; DE 10083735 D2 20031113; DE 19959065 A1 20010830; DE 20022427 U1 20010906; EP 1238171 A2 20020911; EP 1238171 B1 20050323; ES 2240231 T3 20051016; PL 190974 B1 20060228; PL 355511 A1 20040504

INPADOC legal status

2017-01-31 [PGFP DE] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : DE
- Payment date : 20161107
- Year of fee payment : 17

2014-11-28 [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 : 20131231

2014-11-28 [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 NON-PAYMENT OF DUE FEES
- Effective date : 20131208

2014-10-31 [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 : 20131231

2014-10-31 [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 : 20140701

2014-09-26 [REG FR ST] NOTIFICATION OF LAPSE

- Effective date : 20140829

2014-08-27 [GBPC] GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE
- Effective date : 20131208

2014-07-23 [REG NL V1] LAPSED BECAUSE OF NON-PAYMENT OF THE ANNUAL FEE
- Effective date : 20140701

2014-06-30 [BERE] BE: LAPSED
- Owner name : *LOGIC-LOGISTIC CONSULT INGENIEURG.- M.B.H.
- Effective date : 20131231

2013-11-29 [PGRI IT] POSTGRANT: PATENT REINSTATED IN CONTRACTING STATE
- Ref Country Code : IT
- Effective date : 20091201

2013-04-30 [PGFP FR] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : FR
- Payment date : 20130131
- Year of fee payment : 13

2013-04-30 [PGFP BE] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : BE
- Payment date : 20121219
- Year of fee payment : 13

2013-03-29 [PGFP NL] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : NL
- Payment date : 20121217
- Year of fee payment : 13

2013-02-28 [PGFP GB] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : GB
- Payment date : 20121206
- Year of fee payment : 13

2011-10-26 [REG NL TD] MODIFICATIONS OF NAMES OF PROPRIETORS OF PATENTS
- Effective date : 20111012

2010-04-30 [PGFP IT] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : IT
- Payment date : 20071219
- Year of fee payment : 8

2010-04-30 [PGRI IT] POSTGRANT: PATENT REINSTATED IN CONTRACTING STATE
- Ref Country Code : IT
- Effective date : 20091201

2009-09-30 [PG25 TR] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : TR
- 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 : 20050323

2008-10-31 [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 : 20070704

2008-04-30 [PG25 ES] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : ES
- Free text : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES
- Effective date : 20061209

2008-03-16 [REG ES FD2A] ANNOUNCEMENT OF LAPSE IN SPAIN
- Effective date : 20061209

2008-01-31 [PG25 DK] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : DK
- Free text : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES

- Effective date : 20070102

2007-11-24 [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 : 20061208

2007-08-21 [EUG] SE: EUROPEAN PATENT HAS LAPSED

2007-08-15 [REG CH PL] PATENT CEASED

2007-08-06 [REG DK EBP] EP PATENT LAPSED

2006-12-31 [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 : 20061231

2006-12-31 [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 : 20061231

2006-12-09 [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 : 20061209

2006-12-08 [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 : 20061208

2006-03-24 [ET] FR: TRANSLATION FILED

2006-03-15 [26N] NO OPPOSITION FILED
- Effective date : 20051227

2006-02-01 [NLT1] NL: MODIFICATIONS OF NAMES REGISTERED IN VIRTUE OF DOCUMENTS PRESENTED TO THE PATENT OFFICE PURSUANT TO ART. 16 A, PARAGRAPH 1
- Owner name : LOGIC-LOGISTIC CONSULT INGENIEURGESELLSCHAFT MBH

2005-12-31 [PG25 LU] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : LU
- Free text : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES
- Effective date : 20051231

2005-12-31 [PG25 MC] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : MC
- Free text : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES
- Effective date : 20051231

2005-12-19 [PGFP DK] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : DK
- Payment date : 20051219
- Year of fee payment : 6

2005-12-16 [PGFP ES] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : ES
- Payment date : 20051216
- Year of fee payment : 6

2005-12-13 [PGFP AT] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : AT
- Payment date : 20051213
- Year of fee payment : 6

2005-12-08 [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 : 20051208

2005-12-08 [PG25 CY] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : CY
- 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 : 20051208

2005-12-07 [PGFP FI] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : FI
- Payment date : 20051207
- Year of fee payment : 6

2005-12-07 [PGFP SE] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : SE
- Payment date : 20051207
- Year of fee payment : 6

2005-12-01 [NLT2] NL: MODIFICATIONS (OF NAMES), TAKEN FROM THE EUROPEAN PATENT PATENT BULLETIN
- Owner name : LOGIC-LOGISTIC CONSULT INGENIEURGESELLSCHAFT MBH
- Effective date : 20051012

2005-10-19 [REG IE FD4D] EUROPEAN PATENTS DESIGNATING IRELAND TREATED AS ALWAYS HAVING BEEN VOID

2005-10-16 [REG ES FG2A] DEFINITIVE PROTECTION
- Document : ES 2240231 T3

2005-10-12 [RAP2] TRANSFER OF RIGHTS OF AN EP GRANTED PATENT
- Owner name : LOGIC-LOGISTIC CONSULT INGENIEURGESELLSCHAFT MBH

2005-10-03 [PGFP CH] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : CH
- Payment date : 20051003
- Year of fee payment : 6

2005-09-29 [PGFP GR] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : GR
- Payment date : 20050929
- Year of fee payment : 6

2005-09-28 [PGFP TR] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : TR
- Payment date : 20050928
- Year of fee payment : 6

2005-09-07 [PG25 PT] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : PT
- 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 : 20050907

2005-08-31 [GBT] GB: TRANSLATION OF EP PATENT FILED (GB SECTION 77(6)(A)/1977)
- Effective date : 20050805

2005-08-01 [REG DK T3] TRANSLATION OF EP PATENT

2005-07-29 [REG CH NV] NEW AGENT
- Representative's name : OK PAT AG PATENTE MARKEN LIZENZEN

2005-07-12 [REG GR EP] EP PATENT VALIDATED IN GREECE
- Document : GR 20050402040

2005-07-12 [REG SE TRGR] TRANSLATION OF GRANTED EP PATENT

2005-05-12 [REF] CORRESPONDS TO:
- Document : DE 50009884 P 20050512

2005-04-20 [REG IE FG4D] EUROPEAN PATENTS GRANTED DESIGNATING IRELAND
- Free text : GERMAN

2005-03-31 [REG CH EP] ENTRY IN THE NATIONAL PHASE

2005-03-23 [AK] DESIGNATED CONTRACTING STATES:
- Kind Code of Ref Document : B1
- Designated State(s) : AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

2005-03-23 [REG GB FG4D] EUROPEAN PATENT GRANTED
- Free text : NOT ENGLISH

2005-03-23 [PG25 IE] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : IE
- 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 : 20050323

2003-03-19 [17Q] FIRST EXAMINATION REPORT
- Effective date : 20030203

2002-09-25 [17P] REQUEST FOR EXAMINATION FILED
- Effective date : 20020724

2002-09-11 [AK] DESIGNATED CONTRACTING STATES:
- Kind Code of Ref Document : A2
- Designated State(s) : AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

2002-09-11 [AX] REQUEST FOR EXTENSION OF THE EUROPEAN PATENT TO:
- Free text : AL;LT;LV;MK;RO;SI