Title (en)
Fireplace with an outer water surface

Title (de)
Kamin mit äusserer Wasserfläche

Title (fr)
Cheminée avec une surface d'eau externe

Publication
**EP 1036989 A2 20000920 (DE)**

Application
**EP 00105701 A 20000317**

Priority
DE 19912273 A 19990318

Abstract (en)
The stove has an inclined outer wall with a water-inlet (13) at the top end of the wall (12). The bottom of the wall has a water-collector (14). along the wall area, flowing water forms a wall of water with the water surface (15). The exterior of the wall area has an insulating layer (16). The water-inlet has a transverse pipe with outlet gap facing the wall area. The pipe forming the water-inlet has a water-storage container. The water collector is a transverse gully with an open side facing the wall area. A pump (8) is attached to a water-container (7).

Abstract (de)
Es gibt einen Kamin, bei dem ein äußerer Wandbereich 12 mit Gefälle vorgesehen ist. Dabei ist es erwünscht, wenn die äußere Wasserfläche des Kamins sich bewegt und vereinfacht flächenmäßig größer gestaltet werden kann. Dies ist erreicht, indem am oberen Ende des Wandbereichs 12 mit Gefälle ein Wasserzulauf 13 vorgesehen ist und am unteren Ende des Wandbereichs 12 ein Wasserauffang 14 gebildet ist und entlang dem Wandbereich 12 fließendes Wasser eine Wasserwand mit der Wasserfläche 15 bildet. Bei dem Kamin ist die der Verdunstung dienende Wasserfläche in den Kamin integriert. Es ist eine unmittelbare Verbindung zwischen dem Wasser und dem Feuer des Kamins hergestellt. <IMAGE>

IPC 1-7 (main, further and additional classification)
**F24B 1/191**; F24C 15/00

IPC 8 full level (invention and additional information)
**F24B 1/191** (2006.01); **F24C 15/00** (2006.01)

CPC (invention and additional information)
**F24B 1/191** (2013.01); **F24C 15/003** (2013.01)

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

EPO simple patent family
EP 1036989 A2 20000920; EP 1036989 A3 20040602; EP 1036989 B1 20050209; AT 289041 T 20050215; DE 19912273 A1 20000921; DE 19912273 C2 20030424

INPADOC legal status

**2018-01-31** [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 : 20171003

**2017-10-03** [REG DE R119] APPLICATION DEEMED WITHDRAWN, OR IP RIGHT LAPSED, DUE TO NON-PAYMENT OF RENEWAL FEE
- Document : DE 50009446

**2016-07-29** [PGFP DE] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : DE
- Payment date : 20160520
- Year of fee payment : 17

**2016-02-29** [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 : 20150331

**2016-01-01** [REG FR ST] NOTIFICATION OF LAPSE
- Effective date : 20151130

**2014-05-30** [PGFP FR] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : FR
- Payment date : 20140319
- Year of fee payment : 15

**2012-01-31** [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 : 20110331

**2012-01-31** [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 : 20110331

**2011-11-30** [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 : 20110317

**2011-10-31** [REG CH PL] PATENT CEASED

**2011-03-31** [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 : 20100317

**2010-06-30** [PGFP AT] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : AT
- Payment date : 20100217
- Year of fee payment : 11

**2010-04-30** [PGFP CH] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : CH
- Payment date : 20100217
- Year of fee payment : 11

**2009-08-31** [PGFP IT] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : IT
- Payment date : 20090326
- Year of fee payment : 10

**2008-01-02** [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 NON-PAYMENT OF DUE FEES
- Effective date : 20050709

**2007-12-31** [BERE] BE: LAPSED
- Owner name : MAX BLANK G.M.B.H.
- Effective date : 20050331

**2006-02-01** [26N] NO OPPOSITION FILED
- Effective date : 20051110

**2005-12-30** [ET] FR: TRANSLATION FILED

**2005-09-30** [BERE] BE: LAPSED
- Owner name : MAX BLANK G.M.B.H.
- Effective date : 20050331

**2005-09-21** [REG IE FD4D] EUROPEAN PATENTS DESIGNATING IRELAND TREATED AS ALWAYS HAVING BEEN VOID

**2005-09-07** [GBV] GB: EP PATENT (UK) TREATED AS ALWAYS HAVING BEEN VOID IN ACCORDANCE WITH GB SECTION 77(7)/1977
- Effective date : 20050209

**2005-08-01** [NLV1] NL: LAPSED OR ANNULLED DUE TO FAILURE TO FULFILL THE REQUIREMENTS OF ART. 29P AND 29M OF THE PATENTS ACT

**2005-05-20** [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 FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20050520

**2005-05-09** [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 FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20050509

**2005-05-09** [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 FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20050509

**2005-05-09** [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 FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20050509

**2005-03-31** [REG CH NV] NEW AGENT
- Representative's name : PATENTANWAELTE SCHAAD, BALASS, MENZL & PARTNER AG

**2005-03-31** [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 : 20050331

**2005-03-31** [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 : 20050331

**2005-03-17** [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 : 20050317

**2005-03-17** [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 : 20050317

**2005-03-17** [REF] CORRESPONDS TO:
- Document : DE 50009446 P 20050317

**2005-03-09** [REG IE FG4D] EUROPEAN PATENTS GRANTED DESIGNATING IRELAND
- Free text : GERMAN

**2005-02-23** [AKX] PAYMENT OF DESIGNATION FEES
- Designated State(s) : AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

**2005-02-15** [REG CH EP] ENTRY IN THE NATIONAL PHASE

**2005-02-09** [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

**2005-02-09** [AX] REQUEST FOR EXTENSION OF THE EUROPEAN PATENT TO:
- Countries : AL LT LV MK RO SI

**2005-02-09** [REG GB FG4D] EUROPEAN PATENT GRANTED
- Free text : NOT ENGLISH

**2005-02-09** [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 FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20050209

**2005-02-09** [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 : 20050209

**2005-02-09** [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 : 20050209

**2005-02-09** [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 : 20050209

**2004-08-18** [17P] REQUEST FOR EXAMINATION FILED
- Effective date : 20040619

**2004-06-02** [AK] DESIGNATED CONTRACTING STATES:
- Kind Code of Ref Document : A3
- Designated State(s) : AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

**2004-06-02** [AX] REQUEST FOR EXTENSION OF THE EUROPEAN PATENT TO:
- Countries : AL LT LV MK RO SI

**2000-09-20** [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

**2000-09-20** [AX] REQUEST FOR EXTENSION OF THE EUROPEAN PATENT TO:
- Free text : AL;LT;LV;MK;RO;SI