Title (en)
INFLATABLE INSULATION

Title (de)
AUFBLASBARE ISOLIERUNG

Title (fr)
MODULE D'ISOLATION GONFLABLE

Publication
EP 0924999 B1 20011205 (EN)

Application
EP 97940243 A 19970915

Priority
- GB 9702468 W 19970915
- GB 9619123 A 19960913

Abstract (en)
[origin: WO9810669A1] An inflatable insulation module(s) for an insulated garment comprises an inner and an outer membrane (4) sealed together to form an inflatable cavity. The membrane is formed of a water-vapour-permeable material which is breathable to allow escape of moisture from the wearer, and is air-impermeable to allow inflation of the module. The insulation value may be varied by varying the extent of inflation.

IPC 1-7 (main, further and additional classification)
A41D 31/00

IPC 8 full level (invention and additional information)
A41D 13/002 (2006.01)

CPC (invention and additional information)
A41D 13/002 (2013.01); A41D 2400/14 (2013.01)

Designated contracting state (EPC)
AT DE ES FR GB IT NL SE

EPO simple patent family
WO 9810669 A1 19980319; AT 209866 T 20011215; AT A908897 A 20030115; AU 4214997 A 19980402; DE 19782215 T1 19991125; DE 29723798 U1 19990624; DE 69708889 D1 20020117; DE 69708889 T2 20020822; EP 0924999 A1 19990630; EP 0924999 B1 20011205; ES 2167790 T3 20020516; GB 9619123 D0 19961023; HK 1006919 A1 20001215

INPADOC legal status

2016-10-31 [PGFP IT] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : IT
- Payment date : 20160826
- Year of fee payment : 20

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

2008-01-31 [PGFP SE] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : SE
- Payment date : 20060927
- Year of fee payment : 10

2005-09-15 [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 : 20050915

2004-12-16 [REG ES FD2A] ANNOUNCEMENT OF LAPSE IN SPAIN
- Effective date : 20030916

2004-07-02 [REG FR ST] NOTIFICATION OF LAPSE

2004-06-01 [NLV4] NL: LAPSED OR ANULLED DUE TO NON-PAYMENT OF THE ANNUAL FEE
- Effective date : 20040401

2004-05-28 [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 : 20040528

2004-05-05 [GBPC] GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE
- Effective date : 20030915

2004-05-04 [EUG] SE: EUROPEAN PATENT HAS LAPSED

2004-04-01 [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 : 20040401

2004-04-01 [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 : 20040401

2003-09-16 [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 : 20030916

2003-09-16 [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 : 20030916

2003-09-15 [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 : 20030915

2003-09-15 [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 : 20030915

2002-11-27 [26N] NO OPPOSITION FILED

2002-10-09 [PGFP ES] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : ES
- Payment date : 20021009
- Year of fee payment : 6

2002-09-30 [PGFP DE] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : DE
- Payment date : 20020930
- Year of fee payment : 6

2002-09-11 [PGFP GB] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : GB
- Payment date : 20020911
- Year of fee payment : 6

2002-08-20 [PGFP AT] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : AT
- Payment date : 20020820
- Year of fee payment : 6

2002-08-19 [PGFP FR] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : FR
- Payment date : 20020819
- Year of fee payment : 6

2002-08-19 [PGFP NL] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : NL
- Payment date : 20020819
- Year of fee payment : 6

2002-05-17 [ET] FR: TRANSLATION FILED

2002-05-16 [REG ES FG2A] DEFINITIVE PROTECTION
- Document : ES 2167790 T3

2002-01-17 [REF] CORRESPONDS TO:
- Document : DE 69708889 20020117

2002-01-01 [REG GB IF02] EUROPEAN PATENT IN FORCE AS OF 2002-01-01

2001-12-05 [AK] DESIGNATED CONTRACTING STATES:
- Kind Code of Ref Document : B1
- Designated State(s) : AT DE ES FR GB IT NL SE

2001-12-05 [REF] CORRESPONDS TO:
- Document : AT 209866 T 20011215

2001-08-22 [RAP1] TRANSFER OF RIGHTS OF AN APPLICATION
- Owner name : W.L. GORE & ASSOCIATES (UK) LTD.

2000-02-02 [17Q] FIRST EXAMINATION REPORT
- Effective date : 19991215

1999-06-30 [17P] REQUEST FOR EXAMINATION FILED
- Effective date : 19990324

1999-06-30 [AK] DESIGNATED CONTRACTING STATES:
- Kind Code of Ref Document : A1
- Designated State(s) : AT DE ES FR GB IT NL SE