Title (en)
Building blocks

Title (de)
Bausteine

Title (fr)
Blocs de construction

Publication
EP 0616091 B1 20000329 (EN)

Application
EP 93600014 A 19930726

Priority
GR 92100353 A 19920804

Abstract (en)
[origin: EP0616091A1] These Cement Blocks are lightweight and multicellular; they are provided with a slab (2) as a base for the grooves (3) on one horizontal side; pyramoidal/conoidal tongues (6) on the opposite horizontal side for their mechanical interlocking. Grooves (3) are deeper than pyramoidal/conoidal tongues (6) to allow, the application of shear connectors, and bonding mortar, when desirable. They are provided with tongues/grooves (5) (4) at their opposite vertical edges; with grooves (4) deeper than tongues (5) for mortar bonding to the perimetral contact with the bearing elements. These blocks can be erected in running bond; at an angle by super-imposition; they eliminate thermal bridge, and facilitate the installation of plumbing/electrical conduits, without excessive mortar. From their fabrik they allow substantial reductions to wall plasterworks. <IMAGE>

IPC 1-7 (main, further and additional classification)
E04B 2/26

IPC 8 full level (invention and additional information)
E04B 2/26 (2006.01); E04B 2/02 (2006.01)

CPC (invention and additional information)
E04B 2/26 (2013.01); E04B 2002/0208 (2013.01); E04B 2002/0226 (2013.01)

Cited by
DE4405489A1; US8596014B2; WO2012170516A3; WO9743226A1

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

EPO simple patent family
EP 0616091 A1 19940921; EP 0616091 B1 20000329; DE 616091 T1 19950824; DE 69328242 D1 20000504; GR 1001284 B 19930730

INPADOC legal status

2005-07-26 [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 : 20050726

2004-03-17 [GBPC] GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE
- Effective date : 20030726

2003-07-26 [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 : 20030726

2002-07-15 [PGFP GB] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : GB
- Payment date : 20020715
- Year of fee payment : 10

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

2001-03-14 [26N] NO OPPOSITION FILED

2000-08-25 [EN] FR: TRANSLATION NOT FILED

2000-06-30 [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 FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20000630

2000-06-28 [ITF] IT: TRANSLATION FOR A EP PATENT FILED
- Owner name : MODIANO & ASSOCIATI S.R.L.

2000-05-04 [REF] CORRESPONDS TO:
- Document : DE 69328242 20000504

2000-03-29 [AK] DESIGNATED CONTRACTING STATES:
- Kind Code of Ref Document : B1
- Designated State(s) : DE ES FR GB IT SE

2000-03-29 [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 : 20000329

2000-03-29 [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 : 20000329

2000-03-29 [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 FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20000329

1999-12-01 [RTI1] TITLE (CORRECTION)
- Free text : BUILDING BLOCKS

1999-11-03 [RTI1] TITLE (CORRECTION)
- Free text : BUILDING BLOCK

1996-02-21 [17Q] FIRST EXAMINATION REPORT
- Effective date : 19960105

1995-08-24 [DET] DE: TRANSLATION OF PATENT CLAIMS

1995-04-21 [EL] FR: TRANSLATION OF CLAIMS FILED

1995-03-15 [ITCL] IT: TRANSLATION FOR EP CLAIMS FILED
- Representative's name : MODIANO & ASSOCIATI S.R.L.

1994-12-07 [17P] REQUEST FOR EXAMINATION FILED
- Effective date : 19940901

1994-09-21 [AK] DESIGNATED CONTRACTING STATES:
- Kind Code of Ref Document : A1
- Designated State(s) : DE ES FR GB IT SE