

Title (en)

COMPOSITIONS THAT SOFTEN AT PREDETERMINED TEMPERATURES AND THE METHOD OF MAKING SAME.

Title (de)

BEI VORBESTIMMTER TEMPERATUR SCHMELZENDE ZUSAMMENSETZUNGEN UND HERSTELLUNG.

Title (fr)

COMPOSITIONS SE RAMOLLISSANT A DES TEMPERATURES PREDETERMINEES, ET PROCEDE DE PRODUCTION.

Publication

**EP 0211851 A4 19880128 (EN)**

Application

**EP 86900644 A 19860106**

Priority

US 68879385 A 19850104

Abstract (en)

[origin: EP0422693A2] Object of the invention is a method for making an article with shape-memory properties comprising the steps of heating a composition comprising at least one block copolymer, said composition characterized by at least two thermal transition temperatures, one of said transition temperatures being a predetermined lower transition temperature in the range of 20 DEG C to 62 DEG C, the other of said transition temperatures being an upper transition temperature above 62 DEG C, said composition further characterized by the physical properties of a polymer selected from the group consisting of rigid, crystalline polymers and rigid, glassy polymers, below said predetermined lower transition temperature and the physical properties of a flexible, rubbery polymer at and above said predetermined lower transition temperature but below said upper transition temperature, to a temperature above said upper transition temperature, orienting said composition under stress into a first configuration, cooling said composition to below said predetermined lower transition temperature while said composition is in said first configuration, and cold forming said composition into a second configuration, as well as some of the thus obtained articles.

IPC 1-7

**A61M 25/00; A61M 31/00; B29C 35/16; B29C 41/46; B29C 61/06; C08F 20/04; C08F 112/08; C08F 114/06; C08F 283/04; C08G 18/10**

IPC 8 full level

**A61K 9/20** (2006.01); **A61K 9/22** (2006.01); **A61L 26/00** (2006.01); **A61L 29/04** (2006.01); **A61L 29/14** (2006.01); **B29C 61/00** (2006.01); **C08G 18/10** (2006.01); **C08L 71/00** (2006.01); **C08L 75/04** (2006.01); **C08L 75/06** (2006.01); **C08L 101/00** (2006.01)

CPC (source: EP KR)

**A61K 9/2031** (2013.01 - EP); **A61K 9/204** (2013.01 - EP); **A61L 29/049** (2013.01 - EP); **A61L 29/14** (2013.01 - EP); **A61L 29/141** (2013.01 - EP); **A61M 25/00** (2013.01 - KR); **B29C 61/003** (2013.01 - EP); **C08G 18/10** (2013.01 - EP); **C08L 71/00** (2013.01 - EP); **C08L 75/04** (2013.01 - EP); **C08L 75/06** (2013.01 - EP); **C08L 101/00** (2013.01 - EP); **A61L 2400/16** (2013.01 - EP); **C08G 2280/00** (2013.01 - EP); **C08L 2203/02** (2013.01 - EP)

C-Set (source: EP)

1. **C08L 71/00 + C08L 75/04**
2. **C08L 101/00 + C08L 2666/24**
3. **C08L 101/00 + C08L 2666/02**
4. **C08L 75/06 + C08L 71/00**
5. **A61L 29/049 + A61L 29/14 + C08L 75/04**
6. **A61L 29/049 + C08L 75/04**
7. **C08L 75/04 + C08L 71/00**

Citation (search report)

- EP 0087329 A1 19830831 - LHD LAB HYGIENE DIETETIQUE [FR]
- US 4473671 A 19840925 - GREEN RICHARD [US]
- EP 0129396 A2 19841227 - HOWMEDICA [US]
- FR 2546170 A1 19841123 - AKZO NV [NL]

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

**WO 8603980 A1 19860717**; AT E124072 T1 19950715; AU 5302086 A 19860729; DE 3650342 D1 19950727; DE 3650342 T2 19951102; EP 0211851 A1 19870304; EP 0211851 A4 19880128; EP 0422693 A2 19910417; EP 0422693 A3 19910717; EP 0422693 B1 19950621; JP S62501778 A 19870716; KR 870700372 A 19871228

DOCDB simple family (application)

**US 8600006 W 19860106**; AT 90123938 T 19860106; AU 5302086 A 19860106; DE 3650342 T 19860106; EP 86900644 A 19860106; EP 90123938 A 19860106; JP 50050087 A 19860106; KR 860700617 A 19860904