

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.

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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]

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