

## Title (en)

Support apparatus with gel layer and process for its preparation

## Title (de)

Trägervorrichtung mit Gelschicht und Verfahren zu seiner Herstellung

## Title (fr)

Appareil de support avec couche de gel et son procédé de préparation

## Publication

**EP 2692265 A1 20140205 (EN)**

## Application

**EP 13178771 A 20130731**

## Priority

- US 201213563391 A 20120731
- US 201313762865 A 20130208

## Abstract (en)

Apparatuses for supporting at least a portion of the body thereon, including a mattress or a mattress topper, include a polyurethane gel layer (50, 100) overlying at least one support layers in a foam material (60). The gel layer (50, 100) has a hardness of  $4.5 \text{ kPa} \pm 1.5 \text{ kPa}$  and a hysteresis of about  $40\% \pm 10\%$ . The gel layer (50, 100) faces a user, such that the gel layer confers objective and subjective comfort at the same time; moreover, a method for preparing a support apparatus including a gel layer (50, 100) and a second layer (62), such as a foam layer (60) is provided. In particular, the invention provides a method for making a mattress. The method generally includes preparing a gel layer (50, 100) and affixing the gel layer to a second layer (62). In certain embodiments where a foam layer (60) is used as the second layer (62), the foam layer (60) may have a surface having a cavity formed therein for receiving the gel layer (50, 100).

## IPC 8 full level

**A47C 27/08** (2006.01); **A47C 27/15** (2006.01); **A47C 27/20** (2006.01)

## CPC (source: EP)

**A47C 27/085** (2013.01); **A47C 27/15** (2013.01); **A47C 27/20** (2013.01)

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## Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

## Designated extension state (EPC)

BA ME

## DOCDB simple family (publication)

**EP 2692265 A1 20140205; EP 2692265 B1 20150304**

## DOCDB simple family (application)

**EP 13178771 A 20130731**