

Title (en)

THREE DIMENSIONAL GLOVE WITH PERFORMANCE-ENHANCING LAYER LAMINATED THERETO

Title (de)

DREIDIMENSIONALER HANDSCHUH MIT DARAUF LAMINierter LEISTUNGSVERBESSERNDER SCHICHT

Title (fr)

GANT TRIDIMENSIONNEL AYANT UNE COUCHE D'AMÉLIORATION DE PERFORMANCE STRATIFIÉE SUR CELUI-CI

Publication

**EP 2877048 A4 20160113 (EN)**

Application

**EP 13822812 A 20130724**

Priority

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Abstract (en)

[origin: US2014026290A1] A 3D hand-shaped glove includes a performance-enhancing layer laminated to a fabric glove shell. A flat, solid laminate preform can be prepared with printed graphics, fabric layers, oriented films, dense and/or concentrated fillers, and other features. The 3D hand-shaped glove shell is placed on a 3D laminating form, and the preform is laminated thereto while preserving the 3D shape. In embodiments, the laminating form includes opposing flat surfaces, and a platen or roller press is used. In other embodiments, a bladder or vacuum bag press is used to laminate the preform to a curved or otherwise shaped surface of the laminating form. In embodiments, edge peel resistance is enhanced by extending the perimeter of a low modulus upper layer beyond underlying layers and bonding it directly to the glove shell. Recovery of the glove shell after deformation by the laminating form can provide a warping deformation of the laminate preform.

IPC 8 full level

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Citation (search report)

- [XYI] JP 2008214794 A 20080918 - TORAY COATEX CO LTD
- [Y] US 2010011484 A1 20100121 - WILLIAMS COLE [US]
- [Y] WO 2009070789 A1 20090604 - MURPHY ROBERT [US]
- [Y] WO 2006078398 A1 20060727 - GORE ENTERPRISE HOLDINGS INC [US], et al
- [A] WO 0174186 A2 20011011 - LITE LINER TECHNOLOGY EUROP LT [GB], et al
- [A] JP 3472354 B2 20031202
- [A] WO 2006095375 A2 20060914 - NEXTEC SRL [IT], et al
- [A] WO 2006044535 A1 20060427 - SAINT GOBAIN PERFORMANCE PLAST [US]
- [A] WO 9747212 A1 19971218 - GORE & ASS [US]
- See references of WO 2014018583A1

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DOCDB simple family (application)

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