

Title (en)

Lignocellulosic-material-based product and manufacturing method thereof.

Title (de)

Produkt auf der Basis von lignozellulosehaltigen Materialien und Verfahren zu seiner Herstellung.

Title (fr)

Produit à base de matériaux lignocellulosiques et son procédé de fabrication.

Publication

**EP 0653516 A1 19950517 (EN)**

Application

**EP 94850175 A 19941007**

Priority

FI 935104 A 19931117

Abstract (en)

The invention concerns a ligno-cellulosic-material-based product and a manufacturing method thereof, in which method the product is formed from multiple plies of cellulosic fibers into a multi-ply product comprising a liner ply and at least one center ply interleaved between the liner plies. The invention is characterized by having said at least one center ply of the multi-ply product enriched with thick-walled summerwood fibers, and further having the liner ply of the multi-ply product advantageously enriched with thin-walled and/or band-shaped springwood fibers.

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Citation (search report)

- [A] EP 0484101 A2 19920506 - JAMES RIVER CORP [US]
- [A] EP 0312512 A1 19890419 - SCA DEVELOPMENT AB [SE]
- [A] US 5147505 A 19920915 - ALTMAN THOMAS E [US]
- [A] US 1718096 A 19290618 - WELLS FRED B

Cited by

US6517680B1

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