

[54] **COMPOSITE MATERIAL OF DE-N-ACETYLATED CHITIN AND FIBROUS COLLAGEN**

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[58] Field of Search **128/DIG. 8, 335.5290, 128/296; 3/1; 424/35, 36, 359, 361, 37, 360; 426/138, 140, 278, 641, 656, 657; 260/123.7; 435/177; 428/357, 392**

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[57] **ABSTRACT**

A composite material of de-N-acetylated chitin and fibrous collagen, which may be prepared by bringing the de-N-acetylated chitin and the fibrous collagen into mutual contact in an aqueous acidic medium followed by deacidifying the obtained product, the fibrous collagen being able to be partially replaced by gelatin and/or soluble collagen, and a shaped material derived from the composite material is excellent in mechanical strength, heat-resistance and biostability and advantageously employed in the field of medical materials, edibles such as edible casing and base materials for immobilizing enzyme.

14 Claims, No Drawings