

FIBER SHEET STRUCTURE INCLUDING DOUBLED YARN BUNDLE MADE OF GELATIN FIBER BUNDLE AND THERMOPLASTIC RESIN FIBER BUNDLE

[ABSTRACT]

[Problem]

5 An object of the present invention is to provide a fiber sheet structure including doubled yarn bundles made of gelatin fiber bundles, having a good texture, high tensile strength, and large breaking elongation compared to conventional gelatin fibers, and thermoplastic resin fiber bundles.

10 Furthermore, an object of the present invention is to provide a fiber sheet structure including doubled yarn bundles made of gelatin fiber bundles, having excellent cell adhesiveness for cell colonization and a slipperiness unlikely to cause inflammation on rubbing against biological tissue, and thermoplastic resin fiber bundles.

[Solution]

15 The fiber sheet structure includes a knit weave and has a cell-mounting front surface and a back surface, the average pore size of the back surface is smaller than the average pore size of the cell-mounting surface, the knit weave includes doubled yarn bundles made of gelatin fiber bundle and thermoplastic resin fiber bundle, the thickness of the fiber sheet structure is 30 to 5000 μm , the number of gelatin fibers constituting the gelatin fiber bundle is 5 to 60, the fineness of the gelatin fiber is 0.5 to 10 dtex, the total
20 number of gelatin fiber bundles and thermoplastic resin fiber bundles in the doubled yarn bundle is 2 to 20, and the ratio of the number of gelatin fiber bundles to thermoplastic resin fiber bundles in the doubled yarn bundle is 5:1 to 1:5.

[No Available Figure]