



PATENT ABSTRACTS OF JAPAN

(11) Publication number: **2001070495 A**(43) Date of publication of application: **21.03.01**

(51) Int. Cl.

A63B 71/12(21) Application number: **11252501**(71) Applicant: **MORITO CO LTD**(22) Date of filing: **07.09.99**(72) Inventor: **NAKAGAWA TAKAHIRO**(54) **ANTIMICROBIAL SHIN PROTECTOR**

(57) Abstract:

PROBLEM TO BE SOLVED: To obtain a shin protector which is substantially not degraded in antimicrobial properties by washing and has excellent buffer characteristic and durability for a long period of time by providing at least the inside surface of a core material which is made of a thermoplastic synthetic resin or synthetic rubber and has no antimicrobial properties with antimicrobial fabrics blended with antimicrobial fibers in tight contact therewith.

SOLUTION: The antimicrobial shin protector P has the core material 1 consisting of a plate material of relatively rigid foamed polyethylene which is curved to be adaptable to the shin and is formed to a sponge form. The fabrics (antimicrobial fabrics) 2 made of the thermoplastic synthetic resin blended with chitin and chitosan as the antimicrobial fibers are disposed to enclose the entire part of the core material 1 in tight contact therewith, by which the protector is formed. The inside surface which is the abutment side of the shin is provided with projecting parts 4a for ventilation formed as grid-like projecting lines by pressing in a longitudinal direction and the outside surface side is provided with decoration parts 3. Such protector is

produced by sandwiching the core material 1 with two sheets of the antimicrobial fabrics 2 (2a and 2b) and subjecting these fabrics to hot press forming.

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