

Title (en)

A METHOD OF SIZING HYDROPHOBIC YARNS, AND SIZING COMPOSITIONS FOR USE IN WATER JET LOOMS

Publication

**EP 0052949 A3 19830720 (EN)**

Application

**EP 81305084 A 19811028**

Priority

- US 20254380 A 19801031
- US 31156181 A 19811016

Abstract (en)

[origin: EP0052949A2] A sizing composition for hydrophobic yarn prior to weaving comprises an acid pH latex of a free radical initiated vinyl polymer and drying the yarn. The polymer has a weight average molecular weight of from about 300,000 to about 2,500,000, and in dried film form is hydrophobic, not redispersible in a solution at a low pH and redispersible in an alkaline aqueous medium. The polymer is prepared from monomers comprising about 8% to about 14% by weight ethylenically unsaturated acid. The average solubility parameter of the monomers in the polymer is between about 9.0 and about 9.5; the calculated polymer T<sub>g</sub> is between about -20 DEG C. and 20 DEG C. Preferred yarns are nylon and polyester. Also disclosed are methods of sizing synthetic hydrophobic yarns with the size compositions and weaving the sized yarns.

IPC 1-7

**D06M 15/38**

IPC 8 full level

**D06M 15/263** (2006.01)

CPC (source: EP)

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Citation (search report)

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