

Title (en)

FIRE RETARDANT COMPOSITIONS AND METHODS AND APPARATUSES FOR MAKING THE SAME

Title (de)

FEUERHEMMENDE ZUSAMMENSETZUNGEN UND VERFAHREN UND VORRICHTUNGEN ZU DEREN HERSTELLUNG

Title (fr)

COMPOSITIONS IGNIFUGES ET PROCEDES ET APPAREILS DE PREPARATION AFFERENTS

Publication

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Application

EP 06846310 A 20061115

Priority

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- US 28210805 A 20051116
- US 66068106 A 20061115

Abstract (en)

[origin: CA2670051A1] A method for forming yarn provides for forming an intermediate product being a fire retardant and heat resistant cohesive elongated network of fibers in a single operation by stretching and breaking filaments of a ribbon like tow starting material of longitudinally aligned filaments. The intermediate product may be wool-like with wavy and randomly oriented fibers formed by f rom the fragmented filaments. The single drafting operation includes directi ng the tow through first and second pairs of rollers, the second pair rotati ng faster than the first. The intermediate product may be spun directly into yarn in one spinning/twisting operation. The fire retardant and heat resist ant yarn so produced may include 100% oxidized polyacrylonitrile fibers havi ng an average length greater than about 15 cm. The yarn may be knitted or ot herwise formed into fire-retardant and heat resistant fabrics or other produ cts used in various applications.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

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- [X] FR 2322223 A1 19770325 - MORGANITE MODMOR LTD [GB]
- [X] WO 2005054554 A1 20050616 - KUREHA CHEMICAL IND CO LTD [JP], et al
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- [X] WO 0077283 A2 20001221 - DU PONT [US], et al
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Citation (examination)

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- US 4583266 A 19860422 - TANGO YASUO [JP], et al
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