

Title (en)
FABRIC AND ARTICLES HAVING FIRE-RESISTANCE, CUT-RESISTANCE, AND ELASTIC RECOVERY AND PROCESSES FOR MAKING SAME

Title (de)
GEWEBE UND ARTIKEL MIT FEUERBESTÄNDIGKEIT, SCHNITTFESTIGKEIT UND ELASTISCHER ERHOLUNG SOWIE HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
TISSU ET ARTICLES PRÉSENTANT UNE RÉSISTANCE AU FEU, UNE RÉSISTANCE AUX COUPURES ET UNE RÉCUPÉRATION ÉLASTIQUE ET LEURS PROCÉDÉS DE FABRICATION

Publication
EP 4323570 A1 20240221 (EN)

Application
EP 22710903 A 20220301

Priority
• US 202163173697 P 20210412
• US 2022018309 W 20220301

Abstract (en)
[origin: US2022325451A1] A flame-resistant cut-resistant fabric, and a glove or other article comprising the fabric, the fabric comprising:(a) at least one first yarn comprising at least 50 weight percent heat-resistant polymeric fiber, wherein at least 30 weight percent of the polymeric fiber present in the at least one first yarn is cut-resistant heat-resistant polymeric fiber having a cut resistance of 500 grams force or higher per ASTM F2992-15; and(b) at least one second yarn having a sheath/core construction with a sheath of halogenated self-extinguishing staple fibers and a core comprising at least one continuous elastomeric filament, wherein 60 to 95 weight percent of the at least one second yarn is halogenated self-extinguishing fiber, and the halogenated self-extinguishing fiber is in contact with the at least one continuous elastomeric filament, the second yarn being free or substantially free of inorganic fibers; the fabric having a maximum after-flame time of two seconds or less and weight loss of 5 weight percent or less when tested per NFPA-2112-2018.

IPC 8 full level
D02G 3/44 (2006.01); **D02G 3/28** (2006.01); **D02G 3/32** (2006.01); **D04B 1/12** (2006.01); **D04B 1/28** (2006.01)

CPC (source: EP KR US)
D02G 3/045 (2013.01 - US); **D02G 3/047** (2013.01 - KR); **D02G 3/12** (2013.01 - US); **D02G 3/18** (2013.01 - US); **D02G 3/28** (2013.01 - EP KR); **D02G 3/32** (2013.01 - EP); **D02G 3/36** (2013.01 - KR US); **D02G 3/442** (2013.01 - EP KR); **D02G 3/443** (2013.01 - EP KR); **D03D 1/0017** (2013.01 - KR); **D04B 1/123** (2013.01 - EP); **D04B 1/16** (2013.01 - US); **D04B 1/28** (2013.01 - EP KR US); **D04B 21/16** (2013.01 - US); **D04B 21/207** (2013.01 - US); **D10B 2101/20** (2013.01 - EP); **D10B 2321/101** (2013.01 - EP); **D10B 2331/021** (2013.01 - EP US); **D10B 2331/06** (2013.01 - US); **D10B 2331/12** (2013.01 - US); **D10B 2401/04** (2013.01 - US); **D10B 2401/061** (2013.01 - US); **D10B 2401/16** (2013.01 - US); **D10B 2403/0114** (2013.01 - EP); **D10B 2501/041** (2013.01 - EP KR US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
US 2022325451 A1 20221013; CN 117377795 A 20240109; EP 4323570 A1 20240221; JP 2024515615 A 20240410; KR 20230169133 A 20231215; WO 2022220937 A1 20221020

DOCDB simple family (application)
US 202217679820 A 20220224; CN 202280027946 A 20220301; EP 22710903 A 20220301; JP 2023562752 A 20220301; KR 20237034269 A 20220301; US 2022018309 W 20220301