

Title (en)

AQUEOUS SOLUTION OF SYNTHETIC FIBER TREATMENT AGENT, AND SYNTHETIC FIBERS

Title (de)

WÄSSRIGE LÖSUNG EINES KUNSTFASERBEHANDLUNGSMITTELS UND KUNSTFASERN

Title (fr)

LIQUIDE AQUEUX D'AGENT DE TRAITEMENT POUR FIBRES SYNTHÉTIQUES, ET FIBRES SYNTHÉTIQUES

Publication

EP 4159915 A1 20230405 (EN)

Application

EP 21823125 A 20210604

Priority

- JP 2020101691 A 20200611
- JP 2021021317 W 20210604

Abstract (en)

The present invention addresses the problem of providing: an aqueous solution of a synthetic fiber treatment agent that has excellent low-temperature handling properties and can impart quality stability; and synthetic fibers having said synthetic fiber treatment agent adhered thereto and having excellent quality stability. The present invention is an aqueous solution of a synthetic fiber treatment agent comprising a smoothing agent, a nonionic surfactant and an ionic surfactant, and is characterized by the smoothing agent comprising a specific ester A1 and a specific ester A2, and the mass ratio of the content of the ester A1 with respect to the content of the ester A2 being ester A1/ester A2 = 3.0-9.0.

IPC 8 full level

D06M 13/224 (2006.01)

CPC (source: CN EP KR)

D06M 13/152 (2013.01 - CN KR); **D06M 13/188** (2013.01 - EP); **D06M 13/203** (2013.01 - CN EP KR); **D06M 13/224** (2013.01 - CN EP);
D06M 13/2246 (2013.01 - CN KR); **D06M 13/256** (2013.01 - CN KR); **D06M 13/292** (2013.01 - CN KR); **D06M 15/53** (2013.01 - CN KR);
D06M 13/17 (2013.01 - EP); **D06M 13/256** (2013.01 - EP); **D06M 13/292** (2013.01 - EP); **D06M 15/53** (2013.01 - EP);
D06M 2200/40 (2013.01 - CN EP KR)

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)

EP 4159915 A1 20230405; EP 4159915 A4 20231101; CN 113950549 A 20220118; CN 113950549 B 20221004; JP 2021195644 A 20211227;
JP 6745565 B1 20200826; KR 102460479 B1 20221028; KR 20220093251 A 20220705; TW 202204720 A 20220201; TW I761226 B 20220411;
WO 2021251284 A1 20211216

DOCDB simple family (application)

EP 21823125 A 20210604; CN 202180002695 A 20210604; JP 2020101691 A 20200611; JP 2021021317 W 20210604;
KR 20227020897 A 20210604; TW 110120677 A 20210607