

Title (en)

METHOD OF TREATING A FIBER WEB AND A TREATMENT SYSTEM FOR TREATMENT OF A FIBER WEB

Title (de)

PROCÉDÉ DE TRAITEMENT D'UNE BANDE DE MATIÈRE FIBREUSE ET SYSTÈME DE TRAITEMENT POUR LE TRAITEMENT D'UNE BANDE DE MATIÈRE FIBREUSE

Title (fr)

PROCÉDÉ DE TRAITEMENT D'UNE NAPPE DE FIBRES ET UN SYSTÈME DE TRAITEMENT POUR LE TRAITEMENT D'UNE NAPPE DE FIBRES

Publication

EP 3875684 A1 20210908 (EN)

Application

EP 21170343 A 20190708

Priority

- FI 20185723 A 20180830
- FI 20195008 A 20190109
- EP 19184856 A 20190708

Abstract (en)

The invention relates to a method of treating a fiber web, in which method the fiber web is sized in a sizer (10), in which the sizing agent (T) is applied onto the fiber web by two hard sizing rolls (11,12) in a sizing nip (N). The fiber web (W) is sized with high solids content sizing agent (T) by indirect curtain sizing in a curtain sizer (10) and in the sizing nip (N) at substantially uniform pressure distribution and uniform speed in cross-direction of the fiber web (W). The fiber web (W) running substantially upwards is sized in the curtain sizer (10). The invention also relates to a treatment system for treatment of a fiber web, which system comprises a sizer (10) comprising sizing rolls (11,12) forming a sizing nip (N). The sizer is a curtain sizer (10) with indirect application of sizing agent (T) in high solids content and one of which hard sizing rolls is a deflection compensated roll and a substantially straight sizing nip is formed. In the curtain sizer (10) run of the fiber web (W) is substantially upwards.

IPC 8 full level

D21H 23/48 (2006.01); **B05C 1/08** (2006.01); **B05C 3/12** (2006.01); **B05D 1/30** (2006.01); **D21H 23/32** (2006.01); **D21H 23/42** (2006.01); **D21H 23/62** (2006.01); **D21H 25/06** (2006.01)

CPC (source: CN EP)

D21H 23/32 (2013.01 - EP); **D21H 23/42** (2013.01 - EP); **D21H 23/48** (2013.01 - EP); **D21H 23/56** (2013.01 - CN); **D21H 23/62** (2013.01 - EP); **D21H 25/06** (2013.01 - CN EP); **B05C 1/0813** (2013.01 - EP); **B05C 5/005** (2013.01 - EP); **B05C 9/04** (2013.01 - EP); **B05D 1/28** (2013.01 - EP); **B05D 3/0254** (2013.01 - EP); **B05D 2252/02** (2013.01 - EP)

Citation (applicant)

"Papermaking Science and Technology", 2009, PAPER ENGINEERS' ASSOCIATION

Citation (search report)

- [I] DE 10012344 A1 20010920 - VOITH PAPER PATENT GMBH [DE]
- [I] US 5378497 A 19950103 - JOHNSON DEAN R [US], et al
- [I] DE 102018100924 A1 20180802 - VOITH PATENT GMBH [DE]

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

DOCDB simple family (publication)

EP 3617403 A1 20200304; **EP 3617403 B1 20210901**; CN 110872792 A 20200310; EP 3875684 A1 20210908; EP 3875684 B1 20230531

DOCDB simple family (application)

EP 19184856 A 20190708; CN 201910812882 A 20190830; EP 21170343 A 20190708