

Title (en)

ARRANGEMENT FOR TENSIONING A FORMING WIRE OF A PAPERMAKING MACHINE

Title (de)

ANORDNUNG ZUM SPANNEN EINES FORMIERSIEBES EINER PAPIERMASCHINE

Title (fr)

DISPOSITIF TENDEUR DESTINÉ À TENDRE UNE TOILE DE FORMAGE D'UNE MACHINE À PAPIER

Publication

**EP 3030712 B1 20190327 (DE)**

Application

**EP 14741243 A 20140711**

Priority

- DE 102013215550 A 20130807
- EP 2014064888 W 20140711

Abstract (en)

[origin: WO2015018595A1] The invention relates to an arrangement (1) for tensioning a forming wire (2) of a papermaking machine, in particular a Fourdrinier wire or a multilayer Fourdrinier wire, for producing multilayer fibrous webs, having a forming wire (2) that forms an endless wire loop, and a tensioning device (4) arranged in the return run (3) of the forming wire. The tensioning device (4) comprises a wire deflection roller (5) and a wire tensioning roller (6) that is arranged directly adjacent thereto and is displaceable relative to the wire deflection roller (5), and linear guides (7) which are arranged on both sides and on which the wire tensioning roller (6) is mounted so as to be displaceable in a displacement direction (8) over a displacement distance. The tensioning device (4) also comprises at least one linear-guide drive (9) for displacing the wire tensioning roller (6), wherein the forming wire (2) partially wraps around the wire tensioning roller (6) and the wire deflection roller (5) and forms a forming wire strand (10) between the wire tensioning roller (6) and the wire deflection roller (5), wherein one of the two rollers (5, 6) is arranged inside the wire loop and one is arranged outside the wire loop. The invention is distinguished by the fact that the linear guides (11) and the displacement travel are arranged and dimensioned such that the course of the forming wire strand (10) forms a strand angle (12) with the displacement direction of less than 40°, in particular less than 20°, preferably less than 10°, wherein this strand angle (12) becomes smaller during the tensioning operation.

IPC 8 full level

**D21F 1/36** (2006.01); **D21F 7/00** (2006.01)

CPC (source: EP)

**D21F 1/36** (2013.01); **D21F 7/005** (2013.01)

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)

**WO 2015018595 A1 20150212**; CN 105452562 A 20160330; EP 3030712 A1 20160615; EP 3030712 B1 20190327; PL 3030712 T3 20190930

DOCDB simple family (application)

**EP 2014064888 W 20140711**; CN 201480044729 A 20140711; EP 14741243 A 20140711; PL 14741243 T 20140711