

Title (en)
METHOD FOR THERMAL SURFACE POST-CROSSLINKING IN A DRUM-TYPE HEAT EXCHANGER HAVING AN INVERSE SCREW FLIGHT

Title (de)
VERFAHREN ZUR THERMISCHEN OBERFLÄCHENNACHVERNETZUNG IN EINEM TROMMELWÄRMETAUSCHER MIT INVERSER SCHNECKENWENDEL

Title (fr)
PROCÉDÉ DE POST-RÉTICULATION THERMIQUE SUPERFICIELLE DANS UN ÉCHANGEUR THERMIQUE À TAMBOUR À VIS HÉLICOÏDALE CONTRAROTATIVE

Publication
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Application
EP 13713395 A 20130320

Priority

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- EP 13713395 A 20130320

Abstract (en)
[origin: WO2013143943A1] The invention relates to a method for the thermal surface post-crosslinking of water-absorbing polymer particles, wherein the polymer particles are coated with an aqueous solution, the coated polymer particles are disaggregated, and the disaggregated polymer particles are thermally surface post-crosslinked by means of a drum-type heat exchanger having an inverse screw flight.

IPC 8 full level
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Citation (search report)
See references of WO 2013143943A1

Citation (third parties)
Third party :

- US 5409771 A 19950425 - DAHMEN KURT [DE], et al
- US 5672633 A 19970930 - BREHM HELMUT [DE], et al
- US 6291636 B1 20010918 - MIYAKE KOJI [JP], et al
- WO 2008141821 A2 20081127 - EVONIK STOCKHAUSEN GMBH [DE], et al
- JP H09303966 A 19971128 - YOSHIDA SHIGERU
- JP 2009190920 A 20090827 - TECHNICA KK
- JP S5837109 A 19830304 - KAWASAKI HEAVY IND LTD
- US 7288601 B2 20071030 - NOGI KOZO [JP], et al
- WO 0125290 A1 20010412 - BASF AG [DE]

Designated contracting state (EPC)
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