

Title (en)
A PROCESS FOR THE PRODUCTION OF PAPER

Title (de)
VERFAHREN ZUR PAPIERHERSTELLUNG

Title (fr)
PROCEDE DE PRODUCTION DE PAPIER

Publication
EP 1309758 B1 20120411 (EN)

Application
EP 01958740 A 20010802

Priority
• EP 01958740 A 20010802
• EP 00850135 A 20000807
• EP 00850136 A 20000807
• EP 00850137 A 20000807
• EP 00850195 A 20001116
• SE 0101701 W 20010802

Abstract (en)
[origin: WO0212626A1] The invention relates to a process for the production of paper from an aqueous suspension containing cellulosic fibres, and optional fillers, which comprises separately adding to the suspension a cationic organic polymer having one or more aromatic groups and an anionic polymer having one or more aromatic groups, the anionic polymer being selected from step-growth polymers, polysaccharides and naturally occurring aromatic polymers and modifications thereof, forming and draining the suspension on a wire, with the proviso that if the anionic polymer is a step-growth polymer it is not an anionic melamine-sulphonic acid condensation polymer. The invention further relates to a process for the production of paper from an aqueous suspension containing cellulosic fibres, and optional fillers, which comprises separately adding to the suspension a cationic organic polymer having one or more aromatic groups and an anionic polymer having one or more aromatic groups, forming and draining the suspension on a wire, with the proviso that the anionic polymer is not an anionic polystyrene sulphonate or anionic melamine-sulphonic acid condensation polymer.

IPC 8 full level
D21H 23/76 (2006.01); **D21C 3/00** (2006.01); **D21H 17/14** (2006.01); **D21H 17/17** (2006.01); **D21H 17/21** (2006.01); **D21H 17/24** (2006.01); **D21H 17/29** (2006.01); **D21H 17/42** (2006.01); **D21H 17/45** (2006.01); **D21H 17/58** (2006.01); **D21H 19/10** (2006.01); **D21H 21/10** (2006.01); **D21H 21/16** (2006.01); **D21H 17/47** (2006.01)

CPC (source: EP KR)
D21H 21/16 (2013.01 - EP KR); **D21H 23/765** (2013.01 - EP); **D21H 17/29** (2013.01 - EP); **D21H 17/47** (2013.01 - EP)

Cited by
CZ304557B6

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

Designated extension state (EPC)
AL LT LV MK RO SI

DOCDB simple family (publication)
WO 0212626 A1 20020214; AR 030313 A1 20030820; AR 030314 A1 20030820; AR 030438 A1 20030820; AR 031982 A1 20031022; AT E547562 T2 20120315; AT E553259 T1 20120415; AU 2001280359 B2 20050407; AU 2001280361 B2 20040722; AU 8035901 A 20020218; AU 8036001 A 20020218; AU 8036101 A 20020218; AU 8275101 A 20020218; BR 0112904 A 20030701; BR 0112905 A 20030624; BR 0112905 B1 20110920; BR 0112906 A 20030624; BR 0112906 B1 20120320; BR 0112907 A 20030624; BR 0112907 B1 20111018; CA 2418400 A1 20020214; CA 2418400 C 20101026; CA 2418413 A1 20020214; CA 2418413 C 20090512; CA 2418416 A1 20020214; CA 2418424 A1 20020214; CA 2418424 C 20081028; CN 1215221 C 20050817; CN 1237228 C 20060118; CN 1302176 C 20070228; CN 1446282 A 20031001; CN 1449464 A 20031015; CN 1449465 A 20031015; CN 1455834 A 20031112; CZ 2003371 A3 20040317; CZ 304877 B6 20141229; EP 1309755 A1 20030514; EP 1309755 B1 20120229; EP 1309755 B2 20151118; EP 1309756 A1 20030514; EP 1309756 B1 20120613; EP 1309757 A1 20030514; EP 1309758 A1 20030514; EP 1309758 B1 20120411; ES 2382790 T3 20120613; ES 2382790 T5 20160309; ES 2384994 T3 20120716; ES 2388659 T3 20121017; JP 2004506103 A 20040226; JP 2004506104 A 20040226; JP 2004506105 A 20040226; JP 2004514796 A 20040520; KR 100520230 B1 20051011; KR 100560239 B1 20060310; KR 20030042444 A 20030528; KR 20030042445 A 20030528; KR 20030042447 A 20030528; KR 20030074587 A 20030919; MX 252220 B 20071209; MX 255774 B 20080331; MX 259234 B 20080801; MX 275177 B 20100414; MX PA03000677 A 20041101; MX PA03000790 A 20041101; MX PA03000869 A 20041213; MX PA03001056 A 20040910; NO 20030559 D0 20030204; NO 20030559 L 20030204; NO 332614 B1 20121119; NZ 523956 A 20040227; PT 1309755 E 20120525; PT 1309756 E 20120905; PT 1309758 E 20120709; TR 200300157 T2 20041221; WO 0212622 A1 20020214; WO 0212623 A1 20020214; WO 0212624 A1 20020214

DOCDB simple family (application)
SE 0101701 W 20010802; AR P010103721 A 20010803; AR P010103722 A 20010803; AR P010103723 A 20010803; AR P010103724 A 20010803; AT 01958738 T 20010802; AT 01958740 T 20010802; AU 2001280359 A 20010802; AU 2001280361 A 20010802; AU 8035901 A 20010802; AU 8036001 A 20010802; AU 8036101 A 20010802; AU 8275101 A 20010802; BR 0112904 A 20010802; BR 0112905 A 20010802; BR 0112906 A 20010802; BR 0112907 A 20010802; CA 2418400 A 20010802; CA 2418413 A 20010802; CA 2418416 A 20010802; CA 2418424 A 20010802; CN 01813716 A 20010802; CN 01814583 A 20010802; CN 01814690 A 20010802; CN 01814691 A 20010802; CZ 2003371 A 20010802; EP 01958738 A 20010802; EP 01958739 A 20010802; EP 01958740 A 20010802; EP 01961489 A 20010802; ES 01958738 T 20010802; ES 01958739 T 20010802; ES 01958740 T 20010802; JP 2002517893 A 20010802; JP 2002517894 A 20010802; JP 2002517895 A 20010802; JP 2002517897 A 20010802; KR 20037000894 A 20030121; KR 20037001170 A 20030127; KR 20037001171 A 20030127; KR 20037001382 A 20030130; MX 2007016467 A 20030127; MX PA03000677 A 20030123; MX PA03000790 A 20010802; MX PA03000869 A 20010802; MX PA03001056 A 20010802; NO 20030559 A 20030204; NZ 52395601 A 20010802; PT 01958738 T 20010802; PT 01958739 T 20010802; PT 01958740 T 20010802; SE 0101698 W 20010802; SE 0101699 W 20010802; SE 0101700 W 20010802; TR 200300157 T 20010802