

Title (en)

Paperboard comprising crosslinked cellulosic fibres

Title (de)

Karton mit vernetzten Zellulosefasern

Title (fr)

Carton avec fibres de cellulose réticulées

Publication

EP 1676955 A1 20060705 (EN)

Application

EP 05257993 A 20051222

Priority

US 2604204 A 20041230

Abstract (en)

A paperboard is made by a process using a high consistency pulp slurry containing high levels of crosslinked cellulosic fibers, dispersing the fibers in a screen with a rotor in the screen and then passing the fibers through the screen basket with a hole diameter of at least 2 mm and forming the cellulosic fibers on a foraminous support. Another slurry of regular cellulosic fibers is deposited on at least one side of the first slurry during the formation process and the resulting web is dewatered and dried.

IPC 8 full level

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CPC (source: EP US)

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Citation (applicant)

- US 4822453 A 19890418 - DEAN WALTER L [US], et al
- US 4888093 A 19891219 - DEAN WALTER L [US], et al
- US 4889595 A 19891226 - HERRON CARLISLE M [US], et al
- US 4889596 A 19891226 - SCHOGGEN HOWARD L [US], et al
- US 4889597 A 19891226 - BOURBON ROBERT M [US], et al
- US 4898642 A 19900206 - MOORE DANNY R [US], et al
- US 4853086 A 19890801 - GRAEF PETER A [US]
- US 4900324 A 19900213 - CHANCE LEON H [US], et al
- US 5843061 A 19981201 - CHAUVENTTE GAETAN [CA], et al
- US 3224926 A 19651221 - BERNARDIN LEO J
- US 3241533 A 19660322 - BALMER RICHARD C
- US 3932209 A 19760113 - CHATTERJEE PRONOY KUMAR
- US 4035147 A 19770712 - SANGENIS SOLANGE, et al
- US 3756913 A 19730904 - WODKA E
- US 4689118 A 19870825 - MAKOUI KAMBIZ B [US], et al
- US 3440135 A 19690422 - CHUNG RAYMOND
- US 4935022 A 19900619 - LASH GLEN R [US], et al
- US 3819470 A 19740625 - SHAW D, et al
- US 3658613 A 19720425 - STEIGER FRED H
- US 4968774 A 19901106 - DIDIER WILHELM [FR], et al
- US 4285690 A 19810825 - NORTH BERNARD F
- US 4332586 A 19820601 - NORTH BERNARD F
- US 4396391 A 19830802 - NORTH BERNARD F
- US 4455416 A 19840619 - FLOYD WILLIAM C [US], et al
- US 4505712 A 19850319 - FLOYD WILLIAM C [US], et al
- US 3526048 A 19700901 - ROWLAND STANLEY P, et al
- US 4820307 A 19890411 - WELCH CLARK M [US], et al
- US 4936865 A 19900626 - WELCH CLARK M [US], et al
- US 4975209 A 19901204 - WELCH CLARK M [US], et al
- US 5221285 A 19930622 - ANDREWS BETHLEHÉM K [US], et al
- US 5137537 A 19920811 - HERRON CARLISLE M [US], et al
- US 5183707 A 19930202 - HERRON CARLISLE M [US], et al
- US 5190563 A 19930302 - HERRON CARLISLE M [US], et al
- US 5562740 A 19961008 - COOK JEFFERY T [US], et al
- US 5873979 A 19990223 - NAIENI SHAHROKH A [US]
- US 4391878 A 19830705 - DRACH JOHN E
- US 4420368 A 19831213 - DRACH JOHN E [US]
- US 4431481 A 19840214 - DRACH JOHN E [US], et al
- US 5049235 A 19910917 - BARCUS ROBERT L [US], et al
- US 5160789 A 19921103 - BARCUS ROBERT L [US], et al
- US 5442899 A 19950822 - SHIBAZAKI TOKIO [JP], et al
- US 5698074 A 19971216 - BARCUS ROBERT LEE [US], et al
- US 5496476 A 19960305 - TANG ROBERT H [US], et al
- US 5496477 A 19960305 - TANG ROBERT H [US], et al
- US 5728771 A 19980317 - TANG ROBERT H [US], et al
- US 5705475 A 19980106 - TANG ROBERT H [US], et al
- US 5981739 A 19991109 - ANDERSON RONALD L [US], et al
- US 5549791 A 19960827 - HERRON CARLISLE M [US], et al
- US 5998511 A 19991207 - WESTLAND JOHN A [US], et al
- US 2002096287 A1 20020725 - JEWELL RICHARD A [US], et al
- US 5225047 A 19930706 - GRAEF PETER A [US], et al
- US 5366591 A 19941122 - JEWELL RICHARD A [US]

- US 5556976 A 19960917 - JEWELL RICHARD A [US]
- US 5536369 A 19960716 - NORLANDER LEIF [SE]

Citation (search report)

- [X] WO 9526441 A1 19951005 - WEYERHAEUSER CO [US]
- [X] US 2002060004 A1 20020523 - KOIKE MOTOMU [JP]
- [E] EP 1630287 A1 20060301 - WEYERHAEUSER CO [US]
- [A] WO 0129311 A1 20010426 - UPM KYMMENE CORP [FI], et al
- [A] WO 9745589 A1 19971204 - VALMET KARLSTAD AB [SE]

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