

PatBase - Search results 06 June 2015

Search query (2): [SP]: 1. a pulp composition comprising: fibers from an agricultural renewable fiber source, wherein the pulp composition has an unbleached kappa number of about 20 or less, a high freeness of at least about 400 ml csf, and a tensile of at least about 5.50 km, a tear index of at least about 6.00 mnm2/g, and a burst index of at least about 3.00 kpm2/g. 2. the pulp composition of claim 1, wherein the kappa number is about 19 or less. 3. the pulp composition of claim 1, wherein the kappa number is about 18 or less. 4. the pulp composition of claim 1, wherein the kappa number is about 15 or less. 5. the pulp composition of claim 1, wherein the agricultural renewable fiber source is bagasse, corn stover, wheat straw, cereal straws, rice straw, soy residuals, coconut tissues, cotton stalks, palm baskets, kenaf, industrial hemp, seed flax straw, textile flax straw, sisal, hesperaloe, rye grass, or combinations thereof. 6. the pulp composition of claim 5, wherein the agricultural renewable fiber source is bagasse, corn stover, wheat straw, cereal straws, rice straw, soy residuals, coconut tissues, cotton stalks, palm baskets, kenaf, industrial hemp, seed flax straw, textile flax straw, sisal, hesperaloe, rye grass, or combinations thereof. 7. a pulp composition comprising fibers from an agricultural renewable fiber (arf) source, wherein the pulp composition has an unbleached kappa number of about 20 or less, a high freeness of at least about 400 ml csf, and strength parameters sufficient for papermaking. 8. the pulp composition of claim 7, wherein the iso brightness is less than 50 percent iso. 9. the pulp composition of claim 7, wherein the arfs are bagasse, corn stover, wheat straw, cereal straws, rice straw, soy residuals, coconut tissues, cotton stalks, palm baskets, kenaf, industrial hemp, seed flax straw, textile flax straw, sisal, hesperaloe, rye grass, or combinations thereof. 10. a pulp composition made from a pulping method comprising: providing a first mixture comprising the reaction products of: fibers, water, anthraquinone or derivative thereof having concentration of about 0.1 percent by weight or greater of the dry fiber, and an alkali, wherein the mixture has a liquid to dry fiber ratio from about 4 to about 10, and an initial kappa number of about 60 or greater and reacting the mixture for a cooking time and at a cooking condition sufficient to form a second mixture having a kappa number of about 20 or less, high freeness of at least about 400 ml csf, and strength parameters sufficient for papermaking. 11. the pulp composition of claim 10, wherein the strength parameters sufficient for papermaking are selected from the group consisting of a tensile of at least about 5.50 km, a tear index of at least about 6.00 mnm2/g, a burst index of at least about 3.00 kpm2/g, or a combination thereof. 12. the pulp composition of claim 10, wherein the cooking condition and cooking time provides an h-factor of about 200 or higher. 13. the pulp composition of claim 10, wherein the second mixture has a kappa number of about 19 or less. 14. the pulp composition of claim 10, wherein the second mixture has a kappa number of about 18 or less. 15. the pulp composition of claim 10, wherein the second mixture has a kappa number of about 15 or less. 16. the pulp composition of claim 10, wherein the second mixture has a kappa number of about 10 or less. 17. the pulp composition of claim 10, wherein the fibers comprise agricultural renewable fibers. 18. the pulp composition of claim 10, wherein the fibers comprise wood fibers. 19. the pulp composition of claim 10, wherein the pulping method further comprises bleaching the second mixture. 20. the pulp composition of claim 19, wherein the pulp has an iso brightness of less than 50 percent.

Results: 21

Yenny Campos

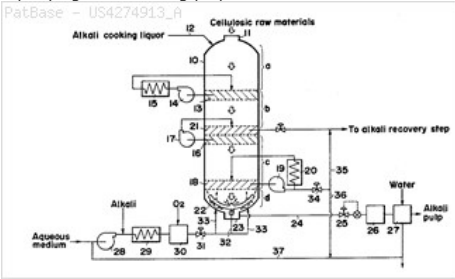
Search history

- Search 1: TAC=(pulp composition and bagasse and corn stover and Kappa number) (Results 3)
- Search 2: [SP]: 1. a pulp composition comprising: fibers from an agricultural renewable fiber source, wherein the pulp composition has an unbleached kappa number of about 20 or less, a high freeness of at least about 400 ml csf, and a tensile of at least about 5.50 km, a tear index of at least about 6.00 mnm2/g, and a burst index of at least about 3.00 kpm2/g. 2. the pulp composition of claim 1, wherein the kappa number is about 19 or less. 3. the pulp composition of claim 1, wherein the kappa number is about 18 or less. 4. the pulp composition of claim 1, wherein the kappa number is about 15 or less. 5. the pulp composition of claim 1, wherein the agricultural renewable fiber source is bagasse, corn stover, wheat straw, cereal straws, rice straw, soy residuals, coconut tissues, cotton stalks, palm baskets, kenaf, industrial hemp, seed flax straw, textile flax straw, sisal, hesperaloe, rye grass, or combinations thereof. 6. the pulp composition of claim 5, wherein the agricultural renewable fiber source is bagasse, corn stover, wheat straw, cereal straws, rice straw, soy residuals, coconut tissues, cotton stalks, palm baskets, kenaf, industrial hemp, seed flax straw, textile flax straw, sisal, hesperaloe, rye grass, or combinations thereof. 7. a pulp composition comprising fibers from an agricultural renewable fiber (arf) source, wherein the pulp composition has an unbleached kappa number of about 20 or less, a high freeness of at least about 400 ml csf, and strength parameters sufficient for papermaking. 8. the pulp composition of claim 7, wherein the iso brightness is less than 50 percent iso. 9. the pulp composition of claim 7, wherein the arfs are bagasse, corn stover, wheat straw, cereal straws, rice straw, soy residuals, coconut tissues, cotton stalks, palm baskets, kenaf, industrial hemp, seed flax straw, textile flax straw, sisal, hesperaloe, rye grass, or combinations thereof. 10. a pulp composition made from a pulping method comprising: providing a first mixture comprising the reaction products of: fibers, water, anthraquinone or derivative thereof having concentration of about 0.1 percent by weight or greater of the dry fiber, and an alkali, wherein the mixture has a liquid to dry fiber ratio from about 4 to about 10, and an initial kappa number of about 60 or greater and reacting the mixture for a cooking time and at a cooking condition sufficient to form a second mixture having a kappa number of about 20 or less, high freeness of at least about 400 ml csf, and strength parameters sufficient for papermaking. 11. the pulp composition of claim 10, wherein the strength parameters sufficient for papermaking are selected from the group consisting of a tensile of at least about 5.50 km, a tear index of at least about 6.00 mnm2/g, a burst index of at least about 3.00 kpm2/g, or a combination thereof. 12. the pulp composition of claim 10, wherein the cooking condition and cooking time provides an h-factor of about 200 or higher. 13. the pulp composition of claim 10, wherein the second mixture has a kappa number of about 19 or less. 14. the pulp composition of claim 10, wherein the second mixture has a kappa number of about 18 or less. 15. the pulp composition of claim 10, wherein the second mixture has a kappa number of about 15 or less. 16. the pulp composition of claim 10, wherein the second mixture has a kappa number of about 10 or less. 17. the pulp composition of claim 10, wherein the fibers comprise agricultural renewable fibers. 18. the pulp composition of claim 10, wherein the fibers comprise wood fibers. 19. the pulp composition of claim 10, wherein the pulping method further comprises bleaching the second mixture. 20. the pulp composition of claim 19, wherein the pulp has an iso brightness of less than 50 percent. (Results 21)

Title: PROCESS FOR PRODUCING ALKALI PULP

Abstract: Source: US4274913A A process for producing alkali pulp by using a single, cylindrical pressurized reaction vessel having therein a liquor-inpregnating zone, a cooking zone, a washing zone, and a diluting zone in that order, and having a motor-driven scraping or agitating device and a pulp discharging outlet in the end portion of the diluting zone. Alkaline aqueous medium containing dissolved oxygen therein is introduced into the diluting zone. A part of the introduced alkaline aqueous medium countercurrently contacts cooked cellulosic materials transferred from the washing zone to the diluting zone to proceed with oxygen-alkali delignification, and is finally discharged out of the vessel from the end portion of the cooking zone. The remainder of the introduced alkaline aqueous medium contacts the cooked cellulosic materials in the diluting zone in a scraping or agitating manner by means of the motor-driven scraping or agitating device to proceed with oxygen-alkali delignification, and finally serves as diluting liquor to be discharged out of the vessel accompanying the resulting pulp.

Classifications:
International (IPC 8-9): D21C3/00 D21C3/02 D21C3/24 D21C3/26 D21C7/08 D21C9/147 (Advanced/Invention); D21C3/00 D21C7/00 D21C9/147 (Core/Invention)
International (IPC 1-7): D21C3/02 D21C3/22 D21C3/24 D21C3/26 D21C7/00
CPC: D21C3/263 D21C7/08 D21C3/24 D21C9/147
European: D21C3/24 D21C3/26B D21C7/08 D21C9/147
US: 162/19 162/237 162/243 162/52 162/57 162/59 162/60 162/65



Family:

Publication number	Publication date	Application number	Application date
CA1127357 A1	19820713	CA19790328033	19790522
JP1169010 C3	19830930	JP19780114882	19780919
JP54156801 A2	19791211	JP19780060638	19780523
JP55040873 A2	19800322	JP19780114882	19780919
JP55084490 A2	19800625	JP19780156026	19781215
JP55137285 A2	19801025	JP19790041839	19790406
JP57060476 B4	19821220	JP19780114882	19780919
SE445120 B	19860602	SE19790004445	19790522
SE445120 C	19860911	SE19790004445	19790522
SE7904445 A	19791124	SE19790004445D	19790522
SE7904445 L	19791124	SE19790004445	19790522
US4274913 A	19810623	US19790041505	19790522

Priority:
JP19780060638 19780523 JP19780114882 19780919 JP19790041839 19790406
CA19790328033 19790522 JP19780156026 19781215

Probable Assignee: NEW OJI PAPER CO LTD

Assignee(s): (std): TOYO PULP CO LTD

Assignee(s): ARAI YASUE ; HIDAKA TOSHIO ; KIKUIRI MAKOTO ; NAKASHIO YOSHIMI ; NEW OJI PAPER CO LTD ; TOYO PULP CO
Inventor(s): (std): ARAI Y ; ARAI YASUE ; HIDAKA T ; HIDAKA TOSHIO ; KIKUIRI M ; KIKUIRI MAKOTO ; NAKASHIO Y ; NAKASHIO YOSHIMI ; NAKASHIO YOSHIMI

Inventor(s): T HIDAKA ; Y ARAI ; Y NAKASHIO ; M KIKUIRI

Title: Process for pulping lignocellulosic material with a preoxidized alkaline sulfide pulping liquor containing a cyclic organic compound

Abstract: Source: US4764252A Lignocellulosic material is pulped by a process comprising the steps of: introducing a molecular oxygen-containing gas, such as air, into an alkaline sulfide solution containing NaOH, Na₂S and at least one cyclic organic compound selected from quinone, hydroquinone, 9,10-diketohydroanthracene and 9,10-dihydroxyhydroanthracene compounds, to oxidize at least a portion of Na₂S; delignifying the lignocellulosic material with an alkaline sulfide cooking liquor containing the oxidized alkaline sulfide solution at an elevated temperature and; then, recovering the resultant pulp from the delignification mixture.

Classifications:

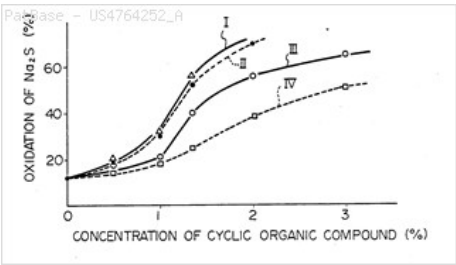
International (IPC 8-9): D21C3/00 D21C3/02 D21C3/22 (Advanced/Invention); D21C3/00 (Advanced/Non-invention)

International (IPC 1-7): D21C3/02 D21C3/20 D21C3/22

CPC: D21C3/022 D21C3/222

European: D21C3/02B D21C3/22B

US: 162/65 162/72 162/82 162/83



Family:

Publication number	Publication date	Application number	Application date
AU198056651 A1	19800925	AU19800056651	19800320
AU536250 B2	19840503	AU19800056651	19800320
CA1153164 A1	19830906	CA19800348205	19800321
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JP55128091 A2	19801003	JP19790033359	19790323
JP63015397 B4	19880404	JP19790033359	19790323
US4764252 A	19880816	US19850799208	19851119

Priority:

JP19790033359 19790323 US19800132530 19800321 US19830556525 19831130
CA19800348205 19800321

Probable Assignee: NEW OJI PAPER CO LTD

Assignee(s): (std): OJI PAPER CO

Assignee(s): OJI PAPER CO LTD ; SHIN YOICHI ; WADA ISAO ; EIMAEDA SHIGERU ; KIDO JUNICHIRO ; NEW OJI PAPER CO LTD

Inventor(s): (std): EIMAEDA SHIGERU ; HATA YOICHI ; KIDO JIYUNICHIROU ; KIDO JUNICHIRO ; SHIN YOICHI ; WADA ISAO

Inventor(s): YOICHI SHIN ; SHIGERU EIMAEDA ; JUNICHIRO KIDO ; ISAO WADA ; HATA YOICHI

Title: PRODUCTION OF PAPER PULP FROM SUGAR MILL BAGASSE

Abstract: Source: US4260452A Paper pulp is produced by a process in which raw sugar mill bagasse is moist depithed, wet bulk stored in the presence of an inorganic and organic preservative, wet depithed by hydraulic shearing in the presence of an inorganic color remover, pulped, washed, cleaned and dewatered.

Classifications:
International (IPC 8-9): D21C5/00 (Advanced/Invention);
D21C5/00 (Core/Invention)
International (IPC 1-7): D21C1/00 D21C3/00 D21C3/04 D21H5/14
CPC: D21C5/00 Y10S162/12
European: D21C5/00
US: 162/23 162/24 162/25 162/26 162/28 162/72 162/76 162/78 162/80 162/84 162/86 162/88 162/90 162/96 162/DIG.12 435/278

Family:

Publication number	Publication date	Application number	Application date
US4260452 A	19810407	US19780963706	19781124

Priority:
US19760685326 19760511 US19780884513 19780308 US19780963706 19781124

Probable Assignee: REITTER FRANZ JOHANN

Assignee(s): (std): BERNDT WILHELM ; HOEPNER THEODOR ; KRUEGER HORST ; MUEHLIG HANS JOACHIM ; SCHWARTZKOPFF URSULA ; REITTER FRANZ J ; REITTER FRANZ JOHANN

Inventor(s): (std): SCHWARTZKOPFF URSULA ; REITTER FRANZ J ; MUEHLIG HANS JOACHIM ; KRUEGER HORST ; HOEPNER THEODOR ; BERNDT WILHELM

Abstract: Source: US5085734A A method for the production of delignified wood pulp is provided which result in said pulp's having improved delignification ratios. In accordance with preferred embodiments, brownstocks are substantially uniformly treated with aqueous alkaline solution while in a state of low consistency. The consistency is then increased to values preferably in excess of about 20 percent and the brownstock treated with oxygen to effect delignification. The processes of the invention provide surprising improvements over prior methods in the high strength, low lignin containing pulps may be formed thereby. These pulps can be further bleached to high brightness with less subsequent bleach chemical.

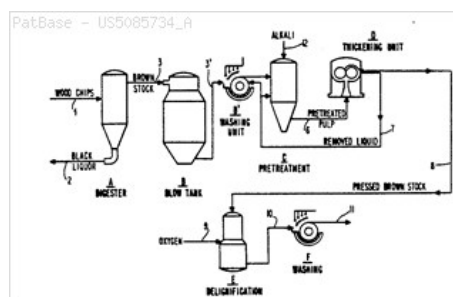
Classifications:
International (IPC 8-9): B01F15/00 B01F7/00 D21C3/02 D21C3/26 D21C7/00
D21C9/10 D21C9/147 D21C9/153 D21C9/16 D21C9/18
D21H17/63 (Advanced/Invention);
B01F7/00 D21C7/00 (Advanced/Non-invention);
D21C9/10 D21C9/147 D21C9/16 D21H17/00 (Core/Invention);
D21C (Subclass/Invention)

International (IPC 1-7): B01F7/08 D21C09/10 D21C3/02 D21C3/26 D21C7/00 D21C9/00 D21C9/10 D21C9/147 D21C9/153 D21C9/16 D21C9/18 D21H17/63

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D21C9/1057 D21C9/163 D21C9/147

European: B01F7/00B12B4 D21C9/10 D21C9/10B D21C9/10G D21C9/147 D21C9/153
D21C9/16B L01F7/00B12A L01F7/00B16D5

US: 162/19 162/241 162/243 162/246 162/40 162/56 162/57 162/60 162/65 162/76
162/78 162/88 162/89 162/90 422/225 422/229



Publication number	Publication date	Application number	Application date
AR245798 A1	19940228	AR19910320997	19911024
AR245799 A1	19940228	AR19910320996	19911024
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Priority:

US19890311669	19890215	US19900489845	19900302	US19900525808	19900517
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Probable Assignee: UNION CAMP PATENT HOLDING

Assignee(s): (std):	JUNION KEMP PEJTENT KHOLDING ; INK ; JUNION KEMP PEJTENT KHOLDING I ; UNION CAMP PATENT MOLDING INC ; INC ; UNION CAMP PATENT HOLDING ; METSO PAPER INC ; UNION CAMP CORP
Assignee(s):	JUNION KEMP PEJTENT KHOLDING INK ; YUNION KYANPU PATENTO HORUDEINGU INC ; UNION CAMP PATENT HOLDINGS INC A DE CORP ; UNION CAMP PATENT HOLDINGS INC 1600 VALLEY ROAD WA ; UNION CAMP PATENT HOLDING INC A DELAWARE CORP ; UNION CAMP PATENT HOLDING INC WAYNE N J US ; WHITE DAVID E ; WHITE DAVID C ; UNION CAMP HOLDING INC ; UNION CAMP CORP WAYNE N J US ; TERRETT STUART T ; PIKULIN MICHAEL A ; PIKULIN MICHAEL ; TERRIT STUART T ; ROSEN ALLEN ; UNION CAMP PATENT HOLDING INC ; UNION CAMP PATENT HOLDINGS INC ; GRIGGS BRUCE F ; GANDEK THOMAS P ; ALI OMAR F ; EACHUS SPENCER W ; FRIEND WILLIAM H ; JUNION KEHMP PEJTENT KHOLDING INK
Inventor(s): (std):	ALI OMAR F ; ALLEN ROSEN ; DAVID E WHITE ; DEHVID I UAJT ; DEHVID S UAJT ; EACHUS S W ; EACHUS SPENCER ; EACHUS SPENCER W ; FRIEND WILLIAM ; FRIEND WILLIAM H ; GANDCK THOMAS P ; GANDEK T P ; GANDEK THOMAS ; GANDEK THOMAS P ; GRIGGS B F ; GRIGGS BRUCE ; GRIGGS BRUCE F ; MAJKL A PIKULIN ; MAJKL PIKUL ; MAJKL PIKULIN ; MICHAEL A PIKULIN ; PIKULIN M A ; PIKULIN MICHAEL ; PIKULIN MICHAEL A ; ROSEN ALLEN ; TERRETT S T ; TERRETT STUART ; TERRETT STUART T ; TERRIT STUART T ; THOMAS P GANDEK ; JONES STUART T ; TOMAS P GANDEK ; TOMAS P GEHNDEK ; WHITE D E ; WHITE DAVID ; WHITE DAVID C ; WHITE DAVID E ; WILLIAM H FRIEND ; UILL JAM KH FREND
Inventor(s):	UILL'JAM KH.FREND ; TOMAS P.GANDEK ; M A PIKULIN ; THOMAS P GANDEK ET AL ; S T TERRETT ; S W EACHUS ; SPENCER W EACHUS ; STUART T TERRETT ; STUART T TERRIT ; T P GANDEK ; PIKURIN MAIKERU EI ; MICHAEL PIKULIN ; OMAR F ALI ; HOWAITO DEIUTSUDO II ; GANDEKU TOOMASU PII ; FURENDO UIRIAMU EICHI ; DEHVID S.UAJT ; B F GRIGGS ; BRUCE F GRIGGS ; D E WHITE ; DAVID C WHITE
Designated states:	AT AU BE BR CA CH DE DK ES FI FR GB GR IT JP KR LI LU MC NL NO RU SE SU

Title: Oxygen delignification of medium consistency pulp slurry using two alkali additions

Abstract: Source: US6162324A An improved process is described for oxygen delignification of medium consistency pulp slurry which teaches control parameters and their resultant effect on final product characteristics. Specifically, a process is described wherein pulp slurries of from approximately eight percent to sixteen percent consistency, are heated to a temperature of at least 170 DEG F. and impregnated oxygen gas and alkali to bring the slurry to a pH of from approximately 11-12.5. The slurry is mixed in a high shear mixer, for agitating mixing therein, under pressure of from approximately 20-180 psig for a first reaction time of typically 5 minutes. Additional alkali is added to the slurry to return the pH to at least 11, preferably at least 12, and the residual alkali concentration to at least 4.0 gpl at the end of the first reaction time. The temperature of the slurry is raised to at least 170 DEG F. followed by mixing for a second reaction time of typically 55 additional minutes.

Classifications:

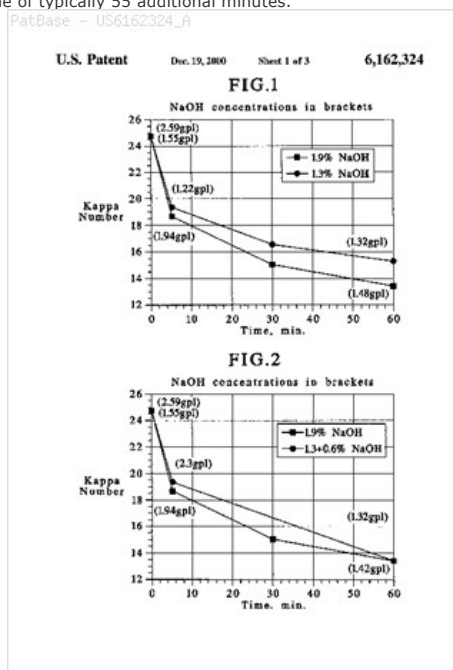
International (IPC 8-9): D21C9/10 D21C9/147 (Advanced/Invention); D21C9/10 D21C9/147 (Core/Invention)

International (IPC 1-7): D21C D21C9/147 D21D

CPC: D21C9/1052 D21C9/147

European: D21C9/10F10 D21C9/147

US: 162/57 162/65 162/90



Family:

Publication number	Publication date	Application number	Application date
AT214113 E	20020315	AT19960943702T	19961118
BRPI9611836 A	19990309	BR1996PI11836	19961118
CA2239855 AA	19980605	CA19962239855	19961118
CA2239855 C	20020702	CA19962239855	19961118
CN1203644 A	19981230	CN19961098795	19961118
DE69619689 D1	20020411	DE19966019689	19961118
EP0865531 A1	19980923	EP19960943702	19961118
EP0865531 B1	20020306	EP19960943702	19961118
ID17433 A	19971224	ID19960003580	19961204
US6162324 A	20001219	US19970949810	19971014
WO9720983 A1	19970612	WO1996US19742	19961118
ZA9610269 A	19970624	ZA19960010269	19961206

Priority:

US19950568779 19951207 WO1996US19742 19961118 US19970949810 19971014

Probable Assignee: GLV FINANCE HUNGARY KFT ACTING THROUGH ITS LUXEMBO

Assignee(s): (std): BELOIT TECHNOLOGIES INC

Assignee(s): GL AND V CANADA INC ; GL AND V INT INC ; GL AND V MANAGEMENT HUNGARY KFT ; GL AND V MANAGEMENT HUNGARY KFT ACTING THROUGH ITS ; GLV FINANCE HUNGARY KFT ; GLV FINANCE HUNGARY KFT ACTING THROUGH ITS LUXEMBO ; GROUPE LAPERRIERE AND VERREAUULT INC ; MILLER WILLIAM J

Inventor(s): (std): MILLER WILLIAM J ; MILLER J

Inventor(s): WILLIAM J MILLER

Designated states: AT BE BR CA CH CN CZ DE DK ES FI FR GB GR IE IT JP LU MC NL PT RU SE SK

Title: PROCESS FOR PRODUCING BLEACHED PULP

Abstract: Source: EP0863251A1 A bleached pulp is produced by a process in which an unbleached pulp prepared from a wood material is treated in an aqueous acid solution under a pressure generated by an oxygen and/or nitrogen containing gas, and the acid-treated pulp is subjected to a single or multi-stage bleaching procedure.

Classifications:
International (IPC 8-9): D21C3/04 D21C9/00 D21C9/10 D21C9/147 D21C9/16 (Advanced/Invention); D21C9/00 D21C9/10 D21C9/147 D21C9/16 (Core/Invention)
International (IPC 1-7): D21C3/04 D21C9/00 D21C9/10 D21C9/147 D21C9/16
CPC: D21C9/1005 D21C9/1026
European: D21C9/10B D21C9/10F

PatBase	IP1 発明例 1		発明例 2			
	カッパ一価	ヘルツ粘度 (mPa・s)	カッパ一価	カッパ一価低下率(%)	ヘルツ粘度 (mPa・s)	ヘルツ粘度率(%)
実施例1	10.2	18.8	4.5	55.9	17.2	99.1
実施例2			4.5	55.9	17.2	99.1
実施例3			4.5	55.9	17.2	99.1
実施例4			4.5	55.9	17.2	99.1
比較例1			—	—	—	—
比較例2			6.5	36.3	17.2	99.4
比較例3	10.2	18.8	6.5	36.3	16.8	99.3
比較例4			6.5	36.3	16.8	99.3
比較例5			6.5	36.3	16.8	99.3
比較例6			6.5	36.3	16.8	99.3

Family:

Publication number	Publication date	Application number	Application date
CA2230961 AA	19980904	CA19982230961	19980303
EP0863251 A1	19980909	EP19980660014	19980303
JP10251986 A2	19980922	JP19970048868	19970304
JP10298886 A2	19981110	JP19970109049	19970425

Priority:
JP19970048868 19970304 JP19970109049 19970425 CA19982230961 19980303

Probable Assignee: OJI PAPER CO
Assignee(s): (std): OJI PAPER CO
Assignee(s): OJI PAPER CO LTD ; UCHIDA YOSUKE ; YAMAMOTO TAKAHIRO ; IWASAKI MAKOTO
Inventor(s): (std): IWASAKI MAKOTO ; UCHIDA YOSUKE ; YAMAMOTO TAKAHIRO
Designated states: FI SE

Title: PROCESS FOR PRODUCING BLEACHED SPECIAL CELLULOSE PULPS

Abstract: Reduction of degradation of cellulose and its derivatives in the production of bleached special pulp from annual plants comprises using additives (I) that do not react with the half stuff, bleaching chemicals and other components of the bleaching liquor but inhibit degradation.

Classifications:

International (IPC 8-9): D21C5/00 D21C9/10 (Advanced/Invention);
D21C5/00 D21C9/10 (Core/Invention)

International (IPC 1-7): D21C9/10

CPC: D21C5/00 D21C9/1036

European: D21C5/00 D21C9/10F4

Family:

Publication number	Publication date	Application number	Application date
AT207153 E	20011115	AT19970108710T	19970530
DE59704964 D1	20011122	DE19975004964	19970530
DK0881326 T3	20020211	DK19970108710T	19970530
EP0881326 A1	19981202	EP19970108710	19970530
EP0881326 B1	20011017	EP19970108710	19970530
ES2164279 T3	20020216	ES19970108710T	19970530
PT881326 T	20020429	PT19970108710T	19970530

Priority:
EP19970108710 19970530

Probable Assignee: SCHOELLER AND HOESCH PAPIERFAB

Assignee(s): (std): SCHOELLER AND HOESCH PAPIERFAB

Assignee(s): PAPIERFABRIK SCHOELLER AND HOESCH GMBH AND CO KG

Inventor(s): (std): KUEHN JOERG ; KUHN JORG ; VORONECKY JIRI

Inventor(s): JIRI VORONECKY ; JORG KUHN

Designated states: AT CH DE DK ES FR GB IT LI PT SE

Title: Method and apparatus for pulp yield enhancement

Abstract: Source: US2001027850A The process of the present invention purposefully precipitates a portion of the dissolved lignin onto pulp fibers to improve pulp yield of unbleached pulp. The resulting retention of lignin on the pulp creates an increase in pulp yield. Washing the pulp in a series of washer stages sequentially removes entrained lignin. Between each of the washer stages, adding dilution water repulps a pulp mat that exits from a prior washer stage and creates a pulp stream for a next washer stage. After at least one of the washer stages, adding an acidifying agent to the pulp stream forms a pulp product by precipitating the entrained lignin onto cellulosic fibers contained in the pulp stream. Finally, the process removes the pulp product from the series of washer stages with the pulp product having at least about a 1 unit increase in Kappa number.

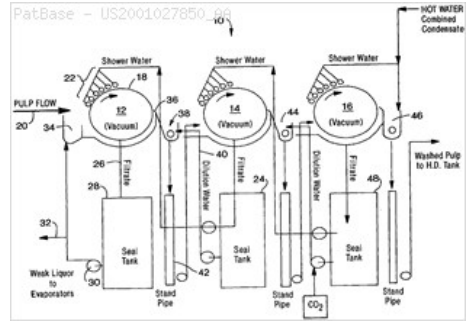
Classifications:

International (IPC 8-9): D21C3/26 D21C9/00 D21C9/02 (Advanced/Invention);
D21C3/00 D21C9/00 (Core/Invention)

International (IPC 1-7): D21C3/26 D21C9/00 D21C9/02 D21D D21D1/40 D21F1/82
CPC: D21C9/004 D21C9/02

European: D21C9/00B2B D21C9/02

US: 162/11 162/16 162/29 162/6 162/60 162/62 162/63



Family:

Publication number	Publication date	Application number	Application date
AU200014843 A5	20000803	AU20000014843D	20000201
AU760949 B2	20030522	AU20000014843	20000201
BRPI0000234 A	20000829	BR2000PI00234	20000201
CA2297586 AA	20000802	CA20002297586	20000201
CN1114014 C	20030709	CN20001001980	20000201
CN1263183 A	20000816	CN20001001980	20000201
EP1026312 A1	20000809	EP20000101978	20000201
JP2000226784 A2	20000815	JP20000023750	20000201
NO20000508 A	20000803	NO20000000508	20000201
NO20000508 A0	20000201	NO20000000508	20000201
NZ502621 A	20010126	NZ20000502621	20000201
US2001027850 AA	20011011	US20010814051	20010322
US6245196 BA	20010612	US19990241617	19990202

Priority:

US19990241617 19990202 CA20002297586 20000201 US20010814051 20010322

Probable Assignee: PRAXAIR TECHNOLOGY INC

Assignee(s): (std): PRAXAIR TECHNOL INC ; PRAXAIR TECHNOLOGY INC

Assignee(s): CAMPBELL PETER ; HO KA KEE ; KOGAN JACOBO ; MARTIN PIERRE HENRI RENE

Inventor(s): (std): HO K K ; HO KK ; J KEGAN ; JACOBO KOGAN ; K K HO ; KA KEE HO ; KEGAN J ; MATTIN P H R ; P H R MATTIN ; PETER CAMPBELL ; PHR MATTIN ; PIERRE HENRI RENE MARTIN ; MARTIN PIERRE HENRI RENE ; KOGAN JACOBO ; HO KA KEE ; CAMPBELL PETER

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Title: Method for the delignification of lignocellulosic material by adding a dialkyl substituted octahydroanthraquinone

Abstract: Source: US6156155A The present invention provides a method for the synthesis of substituted octahydroanthraquinones and substituted anthraquinones which are effective for pulping of lignocellulosics.

Classifications:

International (IPC 8-9): C07C46/02 C07C49/737 D21C3/22 (Advanced/Invention)

International (IPC 1-7): D21C3/20

CPC: C07C46/02 C07C49/737 D21C3/222

European: C07C46/02 C07C49/737 D21C3/22B

US: 162/72 552/269

Family:

Publication number	Publication date	Application number	Application date
US6156155 A	20001205	US19970994582	19971219

Priority:

US19970994582 19971219

Probable Assignee: GEORGIA TECH RESEARCH CORP

Assignee(s): (std): PAPER SCIENCE AND TECH INST INC

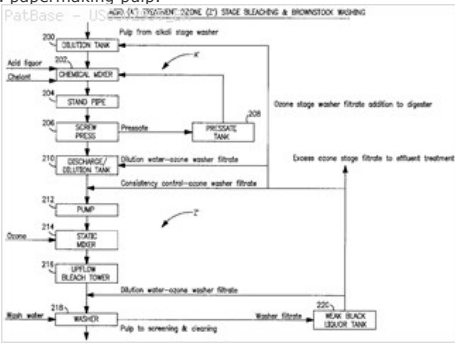
Assignee(s): ENERGY US DEPARTMENT OF ; GEORGIA TECH RESEARCH CORP ; INSTITUTE OF PAPER SCIENCE AND TECHNOLOGY INC ; OF PAPER SCIENCE AND TECHNOLOGY INC INST

Inventor(s): (std): DIMMEL DONALD R

Title: Process for producing a pulp suitable for papermaking from nonwood fibrous materials

Abstract: Source: US6302997B A process for producing a pulp suitable for papermaking from a nonwood fiber source material. Representative nonwood fiber source materials include corn stover and wheat straw. The process includes the steps of providing a nonwood fiber source material; digesting the nonwood fiber source material with an alkaline pulping solution at at least about atmospheric pressure; reducing the pH of the nonwood fiber source material to an acidic pH with an acid solution; treating the nonwood fiber source material having an acidic pH with ozone; and treating the nonwood fiber source material with a bleaching solution to form a papermaking pulp.

Classifications:
International (IPC 8-9): D21C3/02 D21C5/00 D21C9/10 D21C9/14 D21C9/153 D21H11/12 (Advanced/Invention);
D21C3/00 D21C5/00 D21C9/10 D21C9/147 D21H11/00 (Core/Invention)
International (IPC 1-7): D21C9/10 D21C9/14 D21C9/147 D21C9/153 D21C91/53 D21H11/12
CPC: D21C3/02 D21C5/00 D21C9/1005 D21C9/153
European: D21C3/02 D21C5/00 D21C9/10B D21C9/153
US: 162/65 162/90 162/91 162/96 162/97 162/98 162/99



Family:

Publication number	Publication date	Application number	Application date
AU200066480 A5	20010326	AU20000066480	20000821
CA2383349 AA	20020221	CA20002383349	20000821
CN1243150 C	20060222	CN20008012212	20000821
CN1371439 A	20020925	CN20008012212	20000821
EP1242677 A1	20020925	EP20000954145	20000821
EP1242677 A4	20030129	EP20000954145	20000821
IN199490 B	20050520	IN2002DN00194	20020218
MXPA02002202 A1	20030820	MX2002PA02202	20020228
US6302997 BA	20011016	US19990385154	19990830
WO0116423 A1	20010308	WO2000US22921	20000821

Priority:
US19990385154 19990830 WO2000US22921 20000821

Probable Assignee: HURTERCONSULT INC

Assignee(s): (std): HURTERCONSULT INC ; NORTH CAROLINA STATE UNIV ; NORTH CAROTINA STATE UNIV ; UNIV NORTH CAROLINA STATE

Assignee(s):
BYRD MEDWICK V JR ; HURTER ROBERT W

Inventor(s): (std): MEDWICK V BYRD JR ; ROBERT W HURTER MEDWICK V BYRD JR ; ROBERT W HURTER ; HURTER ROBERT W ; BYRD ROBERT W HURTER MEDWICK V ; BYRD MEDWICK V JR ; BYRD MEDWICK V ; BYRD JR MEDWICK V

Designated states:
AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG UZ VN YU ZA ZW