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Search 3: 2 and (aspect near ratio) (Results 2)
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Title: FLOWABLE FLAX BAST FIBER AND FLAX SHIVE BLEND USEFUL AS REINFORCING AGENT

Abstract: This invention relates to free flowing fiber reinforcing material which includes a blend of flax bast fibers and flax shives with a specific distribution of particle sizes and aspect ratios, thermoplastic pellets which include such reinforcing fiber blend, thermoplastic composites which include such reinforcing fiber blend and method for making such pellets and composites.

Classifications:

International (IPC 8-9): D01G13/00 (Advanced/Invention);
D01G13/00 (Core/Invention)

International (IPC 1-7): B32B27/12 C08L97/02 D02G3/00

CPC: Y10T428/2929 D01G13/00 Y10T428/24994

European: D01G13/00

US: 19/145.5 428/297.4 428/373 524/35 524/9 53/63.5 53/65.6 536/35 536/56

Family:

Publication number	Publication date	Application number	Application date
US2003129394 AA	20030710	US20020230364	20020828
US6833399 BB	20041221	US20020230364	20020828

Priority:

US20010323970P 20010921 US20020230364 20020828

Probable Assignee: CARGILL LTD

Assignee(s): (std): CARGILL LTD

Assignee(s): CARGILL LIMITED

Inventor(s): (std): ISMAN BARBARA ; KHAVKINE MIKHAIL

Title: PROCESSING METHOD FOR FIBER MATERIAL USED TO FORM BIOCOMPOSITE COMPONENT

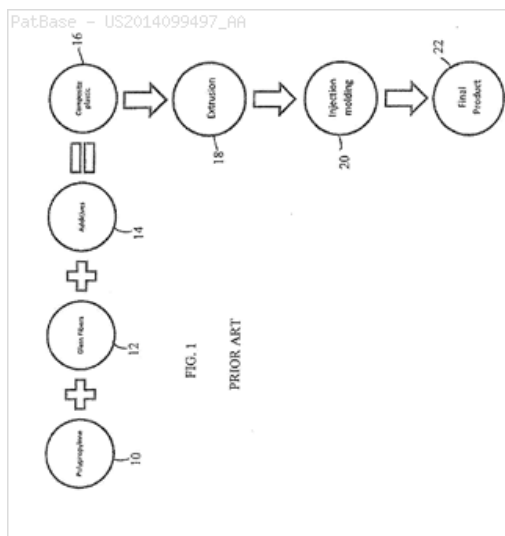
Abstract: The present invention is directed to plant fiber-reinforced biocomposite thermoplastic and/or resin compositions and a method for reinforcing thermoplastic resins. The present invention provides a use for the cellulose portion of a plant material, which is the portion left over after processing the selected plant materials to separate the cellulose in a mechanical process that does not damage the internal molecular structure of the cellulose fraction, enabling the cellulose fraction to chemically bond with the thermoplastic resin to enhance the reinforcement of the resin or thermoplastic biocomposite composition.

Classifications:

International (IPC 8-9): A47L13/12 A47L13/16 A47L17/00
B29B15/10 B29B7/00 B29B7/02 B29C70/10 B29C70/18 C08B15/00
C08F251/02 C08G63/91 C08G69/48 C08G81/02 C08H8/00 C08J3/20
C08J5/04 C08J5/06 C08K7/02 C08L1/02 C08L23/06 C08L23/12
C08L27/06 C08L33/20 C08L55/02 C08L67/00 C08L77/00 C08L97/02
D01B1/00 D01B1/10 D01B1/12 D01B1/14 D01C1/02 D01G15/02
D01G15/10 D01G19/00 D01G19/06 D01G21/00 D01G9/08 D06B3/02
D06F58/10 D06L1/12 D21C1/00 D21C7/12 D21C7/14 D21C9/00
D21C9/06 D21C9/10 D21C9/18 F26B21/06 F26B25/16 F26B5/00
F26B7/00 F26B9/06 (Advanced/Invention);
B29K101/12 B29K311/10 (Advanced/Non-invention)

CPC: D01G9/08 D06B3/02 D01G19/06 C08J2300/22 C08J2401/02
C08J2325/06 C08L2207/04 C08L2207/06 C08J2323/06
C08L2205/16 D01B1/10 D01G19/00 B29B7/00 B29K2101/12
B29K2311/10 D06F58/10 D10B2201/01 B29B15/105 F26B13/00
F26B9/06 F26B21/06 F26B21/086 F26B21/10 F26B25/06 F26B25/22
C08B15/00 C08H8/00 C08J5/045 C08J2323/08 C08K7/02 C08L1/02
C08L33/20 C08L55/02 C08L67/00 C08L77/00 D21C9/007 D21C9/10
D06L1/12 C08L23/0815 C08L23/12 C08L25/06 C08L27/06
C08L33/08 C08L25/04 C08L67/04 C08L27/00 C08L97/02 D01B1/00
D01B1/12 D01C1/02 D01G21/00 D01B1/14 D01G15/10 D01G15/02
Y10T428/249921 D21C7/12 D21C7/14 C08J5/06 A47L13/16
A47L13/12 A47L17/00 D21C9/06 D21C9/005 C08L23/06 C08G81/02

US: 15/229.11 19/115R 19/201 19/205 19/5R 19/98 34/202 34/443
428/221 524/13 524/9 525/54.21 525/54.23 536/56 68/12.02
68/12.03 68/131 68/136 68/15 8/137



Family:

Publication number	Publication date	Application number	Application date
AU2013328401 AA	20140417	AU20130328401	20130617
AU2013328401 BB	20170601	AU20130328401	20130617
BR112015006940 A2	20170704	BR20151106940	20130617
CA2818658 AA	20140410	CA20132818658	20130612
CA2818658 C	20181106	CA20132818658	20130612
CA2933784 AA	20160614	CA20152933784	20150224
CA2933823 AA	20160614	CA20152933823	20150306
CA2933824 AA	20160614	CA20152933824	20150319
US2014099497 AA	20140410	US20130087326	20131122
US2014100332 AA	20140410	US20120648738	20121010
US2015128372 AA	20150514	US20140530242	20141031
US2015166745 AA	20150618	US20150630242	20150224
US2015225556 AA	20150813	US20150697079	20150427
US2015240058 AA	20150827	US20150698059	20150428
US2015252515 AA	20150910	US20150640500	20150306
US2015267342 AA	20150924	US20150662879	20150319
US2017101512 AA	20170413	US20160386883	20161221
US2017190853 AA	20170706	US20170466153	20170322
US2018000307 AA	20180104	US20170701850	20170912
US2018000308 AA	20180104	US20170701860	20170912
US2018002514 AA	20180104	US20170701825	20170912
US9562152 BB	20170207	US20120648738	20121010
US9650728 BB	20170516	US20130087326	20131122
US9663636 BB	20170530	US20150698059	20150428
US9777128 BB	20171003	US20150630242	20150224
US9790354 BB	20171017	US20150697079	20150427
US9902813 BB	20180227	US20160386883	20161221
US9915030 BB	20180313	US20150662879	20150319
US9926442 BB	20180327	US20170701825	20170912
US10093779 BB	20181009	US20170466153	20170322
WO14057320 A1	20140417	WO20131B01266	20130617
WO15125009 A1	20150827	WO20151B00228	20150224
WO15132655 A1	20150911	WO20151B00292	20150306
WO15140627 A1	20150924	WO20151B00375	20150319

Priority:

US20120648738	20121010	WO20131B01266	20130617	US20130902385P	20131111
US20130087326	20131122	US20140943740P	20140224	US20140948863P	20140306
US20140955429P	20140319	US20140530242	20141031	US20150630242	20150224
WO20151B00228	20150224	US20150640500	20150306	WO20151B00292	20150306
US20150662879	20150319	WO20151B00375	20150319	US20150697079	20150427
US20150698059	20150428	US20160386883	20161221	US20170466153	20170322
US20170701850	20170912	US20170701860	20170912	US20170701825	20170912

Probable Assignee: CNH INDUSTRIAL CANADA LTD

Assignee(s): (std): CNH CANADA LTD ; CNH IND CANAD LTD ; CNH IND CANADA LTD ; CNH INDUSTRIAL CANADA LTD ; QUELLE CHAD

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Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; REBECCA L; RICKARD K; HENKEL REBECCA L; DEMILLE RICKARD K

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: METHOD FOR THE PRODUCTION OF LIGNOCELLULOSE MATERIALS

Abstract: The present invention relates to a process for the production of lignocellulose materials via mixing

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- A) of lignocellulose-containing particles or fibers,
- B) with organic isocyanate having at least two isocyanate groups or a mixture of these, and optionally with
- C) binders selected from the group of the phenol-formaldehyde resins, the aminoplastic resins, the protein-based binders, and other polymer-based binders, and mixtures of these,
- D) additives or a mixture of these, and
- E) plastics particles or a mixture of these, with the steps of:
- i.) scattering of the resultant mixture to give a mat,
- ii.) precompaction and heating of the mat during or after the precompaction process, and
- iii.) then hot pressing, wherein, in the step ii.), operations are carried out at elevated temperature during and/or after the precompaction process, and a value of at least 4 cm is achieved for the resultant mat in the push-off test.

Classifications:

International (IPC 8-9): B27N3/00 B27N3/02 B27N3/04 B27N3/08 B27N3/18 C08J3/00 (Advanced/Invention); B27N3/02 B27N3/24 (Advanced/Non-invention)

CPC: B27N3/083 B27N3/18 B27N3/02 B27N3/04 B27N3/08 B27N3/002 B27N3/005

US: 264/120

Family:

Publication number	Publication date	Application number	Application date
CA2936607 AA	20160712	CA20152936607	20150109
US2017021525 AA	20170126	US20150110528	20150109
WO15104349 A2	20150716	WO2015EP50279	20150109
WO15104349 A3	20150911	WO2015EP50279	20150109

Priority:

EP20140150992 20140113 WO2015EP50279 20150109

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Assignee(s): (std): BASF SE

Assignee(s): WEINKOTZ STEPHAN

Inventor(s): (std): WEINKOTZ STEPHAN ; WEINKOETZ STEPHAN

Agent(s): BORDEN LADNER GERVAIS LLP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: COMPOSITE ELEMENTS MADE FROM RIGID POLYURETHANE FOAM

Abstract: The present invention relates to a composite element composed of rigid polyurethane foam and of two outer layers, wherein at least one outer layer is a molding modified with microcapsules, and the microcapsules comprise a polymer as capsule wall and a capsule core composed mainly of latent-heat-accumulator material.

Classifications:

International (IPC 8-9): B32B13/02 B32B21/02 B32B27/12 B32B27/40 B32B5/16 B32B5/18 C09J5/06 E04B1/74 E04B1/80 E04C2/04 E04C2/20 (Advanced/Invention);
B32B27/40 E04C2/04 E04C2/20 (Advanced/Non-invention);
B32B13/00 B32B21/00 B32B27/00 B32B27/12 B32B27/40 B32B5/16 B32B5/18 C09J5/06 E04B1/74 E04B1/80 E04C2/00 E04C2/04 E04C2/10 (Core/Invention)

International (IPC 1-7): B32B27/40 E04C2/04

CPC: Y10T428/24405 C08J9/0009 B32B5/245 B32B5/30 B32B2250/03 B32B2250/40 B32B2260/021 B32B2260/025 B32B2260/044 B32B2260/046 B32B2262/065 B32B2266/0278 B32B2307/304 B32B2419/04 B32B2419/06 B32B2607/02 C08J2205/10 C09K5/063 E04C2/296 F28D20/023 Y02E60/145 Y10T428/24999 Y10T428/249991 Y10T428/249992 Y10T428/249993 B32B27/40

European: B32B27/40 B32B5/24A B32B5/30 C08J9/00H2 C09K5/06B E04C2/296 F28D20/02B L32B250/03 L32B250/40 L32B260/02A L32B260/02B L32B260/04B L32B260/04C L32B262/06A1 L32B266/02B7 L32B307/304 L32B419/04 L32B419/06 L32B607/02 M08J205/10 Y02E60/14D

US: 156/324 156/331.4 428/147 428/147P 428/319.1 428/319.3 428/319.7 428/319.9 52/309.4

Family:

Publication number	Publication date	Application number	Application date
AT509170 E	20110515	AT20050768557T	20050804
BRPI0514618 A	20080617	BR2005PI14618	20050804
CN101006233 A	20070725	CN200580028050	20050804
DE102004041298 A1	20060302	DE200410041298	20040825
DE502005011370 D1	20110622	DE200550011370T	20050804
EP1784546 A1	20070516	EP20050768557	20050804
EP1784546 B1	20110511	EP20050768557	20050804
ES2366568 T3	20111021	ES20050768557T	20050804
JP2008510905 T2	20080410	JP20070528657T	20050804
KR20070046949 A	20070503	KR20077006743	20070323
MX2007001870 A1	20070424	MX20070001870	20050804
US2008014411 AA	20080117	US20050573356	20050804
US7662469 BB	20100216	US20050573356	20050804
WO06021306 A1	20060302	WO2005EP08442	20050804

Priority:

DE200410041298 20040825 EP20050768557 20050804 WO2005EP08442 20050804

Probable Assignee: BASF SE

Assignee(s): (std): BASF CORP ; BASF SE ; SCHMIDT MARCO ; SCHMIDT VOLKER ; BASF AG

Assignee(s): BASF AKTIENGESELLSCHAFT

Inventor(s): (std): SCHMIDT MARCO ; SCHMIDT VOLKER ; SCHMITH VOLKER ; VOLKER SCHMIDT MARCO SCHMIDT

Inventor(s): SCHMIDT MARCO SCHMIDT VOLKER ; VOLKER SCHMIDT ; VOLKER SCHMITH ; MARCO SCHMIDT

Agent(s): OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP

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