

1) Family number: 58292674 (US2016149231A)

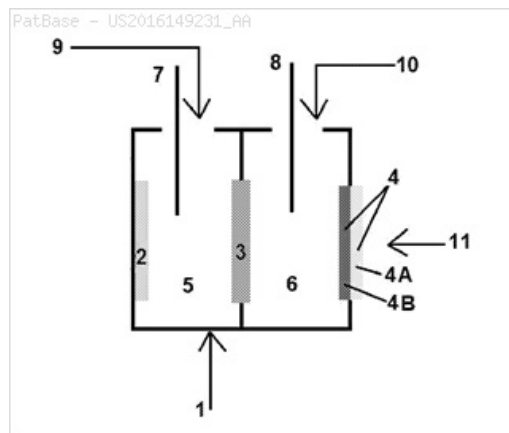
© PatBase

Title: ELECTROLYTE REGENERATION

Abstract: This invention is directed to electrolysis-based devices and methods for recycling of electrolyte solutions. Specifically, the invention is related to regeneration of spent electrolyte solutions comprising metal ions such as electrolyte solutions used in metal/air batteries.

Classifications:

International (IPC 8-9): B60L11/18 B60S5/00 C25B1/16 C25B15/08 C25B9/08 C25B9/18 H01M10/42 H01M12/06 H01M12/08 H01M6/50 H01M8/02 H01M8/04082 H01M8/04791 (Advanced/Invention); C25B H01M (Subclass/Invention)
CPC: C25B15/08 Y02E60/128 Y02E60/36 C25B1/16 C25B9/08 H01M6/5077 H01M2220/20 H01M10/4242 B60S5/00 H01M2300/0014 H01M12/06 Y02T10/7005 Y02T10/705 Y02T10/7072 Y02T90/124 Y02T90/14 B60L50/66 B60L53/80 B60L58/24
US: 204/237 204/252 204/253 205/343 205/346 205/510 429/403
JP F-Term: 4K021 4K021/AA01 4K021/AB01 4K021/BA01 4K021/BA17 4K021/BC01 4K021/BC03 4K021/CA08 4K021/CA09 4K021/CA10 4K021/CA15 4K021/DB05 4K021/DB16 4K021/DB31 5H026 5H032 5H032/AA02 5H032/BB06 5H032/BB07 5H032/BB10 5H032/CC19 5H032/CC25 5H032/EE02 5H032/EE08 5H032/HH10 5H125 5H125/AA01 5H125/AC12 5H125/BE01 5H125/FF04 5H126 5H126/AA01 5H126/AA07 5H127 5H127/AA02 5H127/AC05
JP F-Index: B60L11/18/Z C25B1/16 C25B15/08/304 C25B9/18 H01M12/06/H H01M12/06/Z H01M12/08/K H01M8/02/H H01M8/04/F H01M8/04276



Family:

Publication number	Publication date	Application number	Application date
CA2917750 AA	20160107	CA20142917750	20140708
CA2917750 C	20171128	CA20142917750	20140708
CN105518930 A	20160420	CN201480049328	20140708
EP3020090 A1	20160518	EP20140823567	20140708
EP3020090 A4	20160720	EP20140823567	20140708
IL243471 A1	20181031	IL20140243471	20140708
JP2016532005 T2	20161013	JP20160516066T	20140708
JP6053992 B2	20161227	JP20160516066T	20140708
KR101662047 B1	20161004	KR20167002920	20140708
KR20160018868 A	20160217	KR20167002920	20140708
US2016149231 AA	20160526	US20140903511	20140708
US2017294661 AA	20171012	US20170633807	20170627
US9711804 BB	20170718	US20140903511	20140708
US9843052 BB	20171212	US20170633807	20170627
WO15004663 A1	20150115	WO2014IL50616	20140708

Priority:

US20130843477P 20130708 US20140903511 20140708 WO2014IL50616 20140708
US20160903511 20160107 US20170633807 20170627

Probable Assignee: PHINERGY LTD

Assignee(s): (std): ILYA YAKUPOV ; LANG JOEL ; MELMAN AVRAHAM ; PHINERGY LTD ; PHINERY LTD

Assignee(s): YAKUPOV ILYA

Inventor(s): (std): LANG JOEL ; MELMAN AVRAHAM ; YAKUPOV ILYA ; ILYA YAKUPOV

Agent(s): FASKEN MARTINEAU DUMOULIN LLP; PEARL COHEN ZEDEK LATZER BARATZ UK LLP; PEARL COHEN ZEDEK LATZER BARATZ; SHOBAYASHI MASAYUKI; PEARL COHEN ZEDEK LATZER BARATZ LLP; PEARL COHEN ZEDEK LATZER BARATZ ET AL

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 LI 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

2) Family number: 29255545 (US4605484A)

© PatBase

Title: HYDROGEN-EVOLUTION ELECTRODE

Abstract: An improved hydrogen-evolution electrode having thereon a coating containing an oxide of at least one metal selected from nickel and cobalt and further containing a chromium component in a proportion, in terms of atomic percentage, of 0.5 to 20

percent has been found to exhibit extremely low hydrogen overvoltage and to have not only high catalytic activity but also high durability. Such a hydrogen-evolution electrode can be produced by melt-spraying onto a substrate a mixture of a powder of at least one member selected from the first group consisting of nickel, cobalt, oxides of nickel and cobalt, hydroxides of nickel and cobalt, organic acid salts of nickel and cobalt and inorganic acid salts of nickel and cobalt and a powder of at least one member selected from the second group consisting of chromium, an oxide of chromium, a hydroxide of chromium, an organic acid salt of chromium and an inorganic acid salt of chromium. In the production, when the above-mentioned mixture is subjected to granulation and the obtained granules are melt-sprayed, there can be obtained the desired electrode having excellent properties with respect to catalytic activity and durability in high spraying yield.

Classifications:

International (IPC 8-9): C25B1/00 C25B1/02 C25B1/04 C25B11/00 C25B11/04 C25B11/06 (Advanced/Invention); C25B1/00 (Advanced/Non-invention); C25B1/00 C25B11/00 (Core/Invention)

International (IPC 1-7): B01K3/02 C23C4/04 C23C4/12 C23C7/00 C25B1/00 C25B1/02 C25B1/04 C25B11/00 C25B11/04 C25B11/06 H01M4/52

CPC: C25B11/0478 Y02E60/366

European: C25B11/04D4 Y02E60/36F

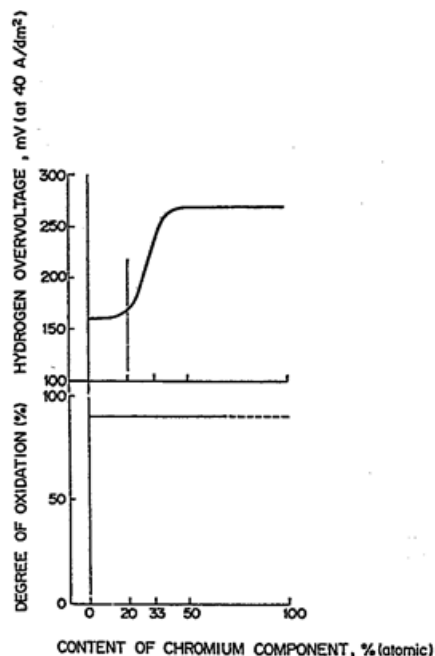
US: 204/290.13 204/290R 427/124 427/126.6 427/34 427/452 427/453 427/456

JP F-Term: 4K011 4K011/AA22 4K011/AA53 4K011/DA01 4K011/DA02 4K011/DA03

JP F-Index: C25B11/06/A C25B11/06/Z

JP Facet: ZNM

PatBase - US4605484_A



Family:

Publication number	Publication date	Application number	Application date
AU198321095 A1	19840607	AU19830021095	19831109
AU565812 B2	19871001	AU19830021095	19831109
BRP18306378 A	19840626	BR1983PI06378	19831121
CA1246494 A1	19881213	CA19830440817	19831109
DE3370833 D1	19870514	DE19833370833	19831116
EP0126189 A1	19841128	EP19830201635	19831116
EP0126189 B1	19870408	EP19830201635	19831116
FI73246 B	19870529	FI19830004109	19831109
FI73246 C	19870910	FI19830004109	19831109
FI834109 A	19840531	FI19830004109	19831109
FI834109 A0	19831109	FI19830004109	19831109
IN161390 A	19871121	IN1983CA01397	19831115
JP1676423 C3	19920626	JP19830036620	19830308
JP3044154 B4	19910705	JP19830036620	19830308
JP59100279 A2	19840609	JP19820208653	19821130
JP59162288 A2	19840913	JP19830036620	19830308
KR19840006829 A	19841203	KR19830005652	19831130
KR840006829 A	19841203	KR19830005652	19831130
KR860001500 B1	19860927	KR19830005652	19831130
NO159736 B	19881024	NO19830004394	19831129
NO159736 C	19890201	NO19830004394	19831129
NO834394 A	19840601	NO19830004394	19831129
NO834394 L	19840601	NO19830004394	19831129
SG8790482 A	19870724	SG19870090482	19870601
SU1658822 A3	19910623	SU19833666928	19831128
US4605484 A	19860812	US19850731598	19850506

Priority:

JP19820208653 19821130 JP19820208653 19821130 JP19830036620 19830308
US19830549755 19831108 CA19830440817 19831109

Probable Assignee: ASAHI CHEMICAL IND

Assignee(s): (std): ASAHI KASEI CORP ; ASAHI CHEMICAL IND

Assignee(s): ASAHI CHEMINDCO ; ASAHI CHEM IND CO ; ASAHI CHEM IND CO LTD ; ASAHI KASEI KABUSHIKI KAISHA ; ASAHI KASEI KK ; ASAHI KASEI KOGYO KABUSHIKI KAISHA ; ASAHI KASEI KOGYO K K ; ASAHI KASEI KOGYO KK ; NOAKI YASUhide ; SHIROKI HIROYUKI

Inventor(s): (std): NOAKI YASUKHIDE ; SHIRAKI HIROYUKI ; SHIROGI HIROYUKI ; SHIROKI HIROYOKI ; SHIROKI HIROYUKI ; SIROKI KHIROYUKI ; YASUhide NOAKI ; YASUKHIDE NOAKI JP ; HIROYOKI SHIROKI ; HIROYUKI SHIROKI ; KHIROYUKI SIROKI JP ; NOAKI YASUhide ; NOAKI YASUhide ASAHI KASEI HAM

Inventor(s): NOAKI YASUhide ASAHI KASEI HAMAYAMA AP 115
Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; RIDOUT AND MAYBEE LLP
Designated states: BE DE FR GB IT NL SE

3) Family number: 49404997 (US2012298912A)

© PatBase

Title: SPHERICAL HYDROTALCITE COMPOUND AND RESIN COMPOSITION FOR SEALING ELECTRONIC COMPONENT

Abstract: A spherical hydrotalcite compound of the present invention is represented by Formula (1) below, having a hydrotalcite compound peak in a powder X-ray diffraction pattern, having a specific surface area of at least 30 m²/g but no greater than 200 m²/g measured by a BET method, and having a secondary particle size median diameter of at least 0.5 micro m but no greater than 6 micro m on a volume basis measured using a laser diffraction type particle size distribution analyzer. (MgxZn1-x)Alb(OH)c(CO3)d.nH2O (1) In Formula (1), a, b, c, and d are positive numbers, 0.5 ≤ x ≤ 1, 2a + 3b - c - 2d = 0, and n denotes hydration number and is 0 or a positive number.

Classifications:

International (IPC 8-9): C01B33/24 C01F5/12 C01F7/00 C01G45/00 C08K3/26 C08K3/34 C08L101/00 H01L23/29

H01L23/31 (Advanced/Invention);

C01B33/24 C08K3/34 H01L23/29 (Core/Non-invention)

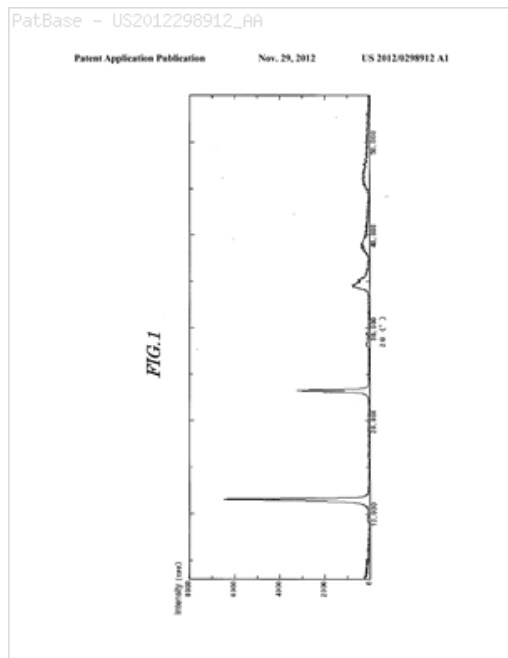
CPC: C01F7/005 C01P2002/72 C01P2004/32 C01P2004/61 C01P2006/12 H01L2924/0002 H01L23/29

European: C01F7/00D2H H01L23/29P M01P2/72 M01P4/32 M01P4/61 M01P6/12

US: 252/184

JP F-Term: 4G076 4G076/AA02 4G076/AB10 4G076/BA13 4G076/BA49 4G076/BB03 4G076/BC02 4G076/BE11 4G076/CA03 4G076/CA05 4G076/CA26 4G076/CA28 4G076/DA02 4J002 4J002/CD05/1 4J002/CD06/1 4J002/DE14/6 4J002/FA08/6 4J002/FD01/6 4J002/GF00 4J002/GJ02 4J002/GQ01 4M109 4M109/AA01 4M109/CA04 4M109/CA21 4M109/CA22 4M109/EA02 4M109/EB03 4M109/EB18 4M109/EC01 4M109/EE03

JP F-Index: C01F5/12 C01F7/00/C C08K3/26 C08L101/00 H01L23/30/R



Family:

Publication number	Publication date	Application number	Application date
CN102753481 A	20121024	CN201180008581	20110128
JP2011099378 A1	20130613	JP20110553798T	20110128
JP5447539 B1	20140319	JP20110553798T	20110128
JP5447539 B2	20140319	JP20110553798T	20110128
KR20120123547 A	20121108	KR20127023441	20110128
SG182651 A1	20120830	SG20120054011	20110128
TW201136834 A	20111101	TW20110104049	20110208
US2012298912 AA	20121129	US20110576305	20110128
WO11099378 A1	20110818	WO2011JP51693	20110128

Priority:

JP20100026019 20100209 JP20110553798 20110128 WO2011JP51693 20110128

Probable Assignee: TOAGOSEI CO LTD

Assignee(s): (std): ONO YASU HARU ; TOAGOSEI CO LTD

Assignee(s): TOAGOSEI CO

Inventor(s): (std): ONO YASU HARU ; YASU HARU ONO

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ 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 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 PE PG PH PL PT RO RS RU 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

4) Family number: 11833462 (US5399329A)

© PatBase

Title: Hydrotalcite-like materials having a sheet-like morphology and process for production thereof

Abstract: A synthetic hydrotalcite-like material having a sheet-like morphology and a sheet broadness to thickness ratio of at least 50 and a formula Mg_{1-x}Al_x(OH)₂·xA·mH₂O where A is a mono carboxylic anion of the form RCOO⁻ where R is C_nH_{2n+1} and n=0-5, and x and m are numbers satisfying the following conditions: 0.2 less than or equal to x less than or equal to 0.4 0.0 less than or equal to m less than or equal to 4 It is made by starting with a synthesis mixture having magnesium (divalent cation) to

aluminum (trivalent cation) molar ratio between 1:1 and 10:1, mono carboxylic anion to aluminum (trivalent cation) molar ratio between 0.1:1 to 1.2:1 and optionally added other anions. The process comprises of reacting a mixture comprising magnesium and aluminum cations and mono carboxylic anions in an aqueous slurry at a temperature of at least 40 DEG C. and a pH of at least 7.

Classifications:

International (IPC 8-9): B01J20/04 B01J20/28 B01J21/16 B01J23/00 B01J31/04 B01J31/28 C01B13/14 C01B33/22 C01F7/00 C01G51/00 C01G53/00 C04B28/30 C04B35/63 C04B9/00 C07C53/06 C07C53/10 C07F5/06 (Advanced/Invention); B01J23/86 B01J37/00 (Advanced/Non-invention)

International (IPC 1-7): B01J20/04 B01J21/16 B01J23/00 B01J31/28 B22D11/01 C01B31/30 C01B33/22 C01C1/26 C01F7/00 C04B28/30 C04B35/63 C04B9/00 C07C53/06 C07C53/10 C07F3/02

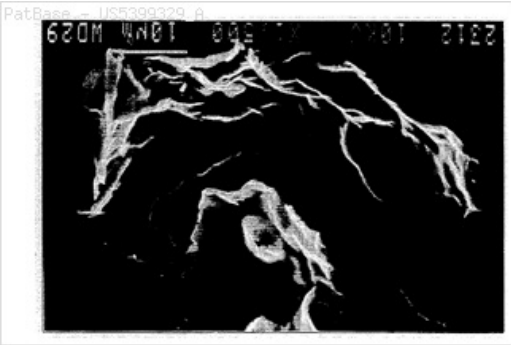
CPC: C01G3/006 C01G9/006 C01G51/006 C01G53/006 C01P2002/50 C01P2002/77 C01P2004/62 C01P2006/32 C01P2002/78 B01J20/041 B01J20/3007 B01J20/3078 C04B35/6303 B01J20/08 B01J20/28011 B01J20/28014 B01J20/28019 B01J20/2803 B01J20/28033 B01J23/007 B01J23/868 B01J37/0009 C01B13/145 C01F7/005 C01P2002/01 C01P2002/22 C01P2002/72 C01P2004/03 C01P2004/04 C01P2004/20 C01P2004/54 C01P2006/10 C01P2006/21 C07F5/069

European: B01J20/04 B01J20/08 B01J20/28B12 B01J20/28D B01J20/28D20 B01J20/28D24 B01J20/28D4B B01J23/00Z B01J31/04 C01B13/14B C01F7/00D2H C01G3/00D C01G51/00D C01G53/00D C01G9/00D C04B35/63B C07F5/06B L01J23/86F L01J37/00B M01P2/01 M01P2/22 M01P2/50 M01P2/72 M01P2/77 M01P2/78 M01P4/03 M01P4/04 M01P4/20 M01P4/54 M01P4/62 M01P6/10 M01P6/21 M01P6/32

US: 264/117 264/115 264/211.11 264/234 423/415.1 423/420.2 423/430 423/432 502/251 502/341 502/414 502/527 502/527.24 502/63 556/28 556/31

JP F-Term: 4G048/AA03 4G048/AA08 4G048/AB02 4G048/AC08 4G048/AD02 4G048/AE05 4G069 4G069/BA21/A 4G069/BA21/C 4G069/BB05/A 4G069/BB05/B 4G069/BB05/C 4G069/BC10/A 4G069/BC10/B 4G069/BC16/A 4G069/BC16/B 4G069/BC16/C 4G069/BC31/A 4G069/BC35/A 4G069/BC58/A 4G069/BC62/A 4G069/BC67/A 4G069/BC68/A 4G069/BC68/B 4G069/BC68/C 4G069/BE08/A 4G069/BE08/C 4G069/EA11 4G069/EB20 4G069/EC02/Y 4G069/EC22/X 4G069/EC25 4G069/FB05 4G069/FB26 4G069/FB26 4G069/FB34 4G069/FB57 4G069/FB80 4G069/FC02 4G069/FC07 4G069/FC08 4G169 4G169/BA21/A 4G169/BA21/C 4G169/BB05/A 4G169/BB05/B 4G169/BB05/C 4G169/BC10/A 4G169/BC10/B 4G169/BC16/A 4G169/BC16/B 4G169/BC16/C 4G169/BC31/A 4G169/BC35/A 4G169/BC58/A 4G169/BC62/A 4G169/BC67/A 4G169/BC68/A 4G169/BC68/B 4G169/BC68/C 4G169/BE08/A 4G169/BE08/C 4G169/EA11 4G169/EB20 4G169/EC02/Y 4G169/EC22/X 4G169/EC25 4G169/FB05 4G169/FB26 4G169/FB34 4G169/FB57 4G169/FB80 4G169/FC02 4G169/FC07 4G169/FC08 4G012 4G012/PA03 4G012/PA11 4G012/PC12 4G012/PC13 4G012/PC15 4G012/PD01 4G012/PE03 4G012/PE04 4G012/PE07 4G030 4G030/PA01 4G033 4G069/AA01 4G069/AA08 4G069/BA01 4G069/BA02 4G069/BA04 4G069/BA06 4G069/BA36 4G069/BB04 4G069/BB05 4G069/BC08 4G069/BC10 4G069/BC16 4G069/BC31 4G069/BC35 4G069/BC38 4G069/BC43 4G069/BC49 4G069/BC50 4G069/BC58 4G069/BC62 4G069/BC67 4G069/BC68 4G069/BE08 4G069/CB02 4G069/CB62 4G069/EA02 4G069/EA04 4G069/EA08 4G069/EC02 4G069/EC24 4G069/ED03 4G069/FB10 4G069/FB65 4G069/FB67 4G069/FB78 4G069/ZA02 4G069/ZA46 4G076 4G076/AA10 4G076/AA18 4G076/AA21 4G076/AA26 4G076/AB02 4G076/AC07 4G076/BA38 4G076/BA43 4G076/BD02 4G076/CA03 4G076/CA11 4G076/CA28 4G076/CA40 4G076/DA01 4G076/DA25 4G112 4G112/PA03 4G112/PA11 4G112/PC12 4G112/PC13 4G112/PC15 4G112/PD01 4G112/PE03 4G112/PE04 4G112/PE07 4G169/AA01 4G169/AA08 4G169/BA01 4G169/BA02 4G169/BA04 4G169/BA06 4G169/BA36 4G169/BB04 4G169/BB05 4G169/BC08 4G169/BC10 4G169/BC16 4G169/BC31 4G169/BC35 4G169/BC38 4G169/BC43 4G169/BC49 4G169/BC50 4G169/BC58 4G169/BC62 4G169/BC67 4G169/BC68 4G169/BE08 4G169/CB02 4G169/CB62 4G169/EA02 4G169/EA04 4G169/EA08 4G169/EC02 4G169/EC24 4G169/ED03 4G169/FB10 4G169/FB65 4G169/FB67 4G169/FB78 4G169/ZA02 4G169/ZA46 4H006 4H006/AB40 4H006/BA05 4H006/BA06 4H006/BA07 4H006/BA09 4H006/BA16 4H006/BA20 4H006/BA21 4H006/BA29 4H006/BA30 4H006/BA32 4H006/BA33 4H006/BA71 4H006/BA80 4H006/BA81 4H006/BA82 4H006/BA85 4H006/BE60

JP F-Index: B01J31/28/Z C01G51/00/C C01G53/00/A B01J21/16/Z C01F7/00/C C04B14/04/Z C04B14/20/A C04B14/30 C04B28/30/Z C04B35/00/107 C04B35/63 C04B35/63/030 C04B9/00 C07C53/06 C07C53/10



Family:

Publication number	Publication date	Application number	Application date
AT184262 E	19990915	AT19960910402T	19960311
AT276847 E	20041015	AT19960905171T	19960122
CA2186525 AA	19960925	CA19962186525	19960122
CA2186525 C	20001205	CA19962186525	19960122
CA2190390 AA	19961114	CA19962190390	19960311
CA2190390 C	19990629	CA19962190390	19960311
DE69604142 D1	19991014	DE19966004142	19960311
DE69604142 T2	20000105	DE19966004142T	19960311
DE69633437 D1	20041028	DE19966033437	19960122
DE69633437 T2	20050303	DE19966033437T	19960122
DK0760802 T3	20000306	DK19960910402T	19960311
EP0760802 A1	19970312	EP19960910402	19960311
EP0760802 A4	19970507	EP19960910402	19960311
EP0760802 B1	19990908	EP19960910402	19960311
EP0790872 A1	19970827	EP19960905171	19960122
EP0790872 A4	19981118	EP19960905171	19960122
EP0790872 B1	20040922	EP19960905171	19960122
ES2137683 T3	19991216	ES19960910402T	19960311
GR3031578 T3	20000131	GR19990402671T	19991021
JP10500935 T2	19980127	JP19960528454T	19960311
JP3881018 B2	20070214	JP19960528454T	19960311
JP9511211 T2	19971111	JP19960523585T	19960122
US5399329 A	19950321	US19930085804	19930706
US5507980 A	19960416	US19950380866	19950130
US5518704 A	19960521	US19950407556	19950320
WO9623611 A1	19960808	WO1996US00771	19960122
WO9629282 A1	19960926	WO1996US03257	19960311

Priority:

US19930085804 19930706 US19950380866 19950130 US19950407556 19950320
WO1996US00771 19960122 WO1996US03257 19960311

Probable Assignee: JOHNSON MATTHEY PROCESS TECHNOLOGIES INC
Assignee(s): (std): INTERCAT INC ; ARISTECH CHEMICAL CORP

Assignee(s): ARISTECH CHEMICAL CORP PITTSBURGH ; CULLO LEONARD A ; SUNOCO INC ; SUNOCO INC R AND M ;
KELKAR CHANDRASHEKHAR P ; SCHUTZ ALAIN A ; JOHNSON MATTHEY PROCESS TECHNOLOGIES INC ;
SUNOCO INC (R AND M)

Inventor(s): (std): ALAIN A SCHUTZ ; CHANDRASHEKHAR KELKAR P ; CULLO LEONARD ; CULLO LEONARD A ; KELKAR
CHANDRASHEKHAR ; KELKAR CHANDRASHEKHAR P ; LEONARD A CULLO ; SCHUTZ ALAIN ; SCHUTZ ALAIN
A

Agent(s): BORDEN LADNER GERVAIS LLP

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

5) Family number: 34554875 (US2008293849A)

© PatBase

Title: NANOCOMPOSITE MATERIAL COMPRISING RUBBER AND MODIFIED LAYERED DOUBLE HYDROXIDE, PROCESS FOR ITS
PREPARATION AND USE THEREOF

Abstract: The present invention pertains to a nanocomposite material comprising rubber and a modified layered double hydroxide comprising: a charge-balancing organic ion having a first functional group and a second functional group, wherein at least part of the organic anions is chemically linked to the rubber through the second functional group; and/or a silane coupling agent having at least one alkoxy silane group and at least one reactive group, at least one alkoxy silane group being chemically linked to the layered double hydroxide, at least one reactive group being chemically linked to the rubber. The invention further pertains to a process for preparing the nanocomposite material or a precursor thereof.

Classifications:

International (IPC 8-9): C01F5/14 C01F7/00 C08K3/22 C08K5/5415
C08K9/04 H01M4/62 B32B9/00 B60C1/00 B82B1/00 C01B13/00
C01B13/32 C01B13/36 C01F5/00 C01F7/02 C07C29/70 C07C31/30
C07F5/06 C08F36/00 C08F36/06 C08J3/22 C08K5/04 C08K5/05
C08K9/00 C08K9/06 C08L101/00 C08L21/00 (Advanced/Invention);
B32B9/00 C01B13/00 C01B13/32 C01B13/36 C01F7/00 C07C29/00
C07C31/00 C07F5/00 C08F36/00 C08J3/20 C08K5/00 C08K9/00
C08L101/00 C08L21/00 (Core/Invention)

CPC: C01F7/005 C01P2002/78 C08J3/226 C08J2421/00 C08K5/548
C01P2004/61 C01B13/363 C01F7/002 C01P2002/22 C08K9/04

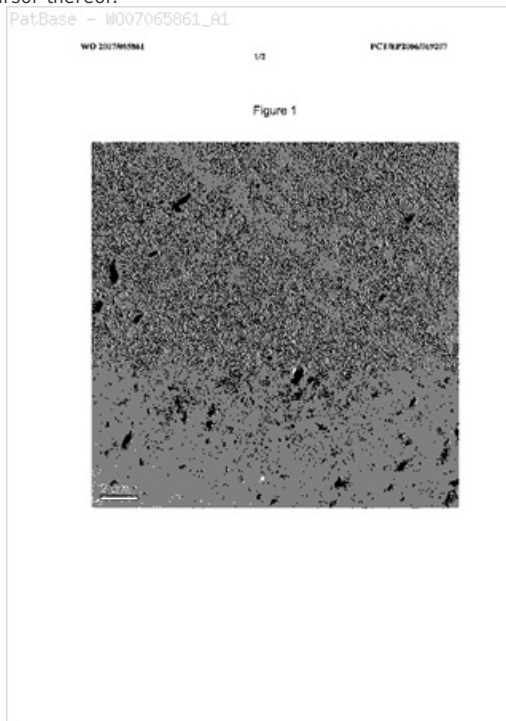
European: C01B13/36B C01F7/00D C01F7/00D2H C08J3/22L
C08K5/548 C08K9/04 M01P2/22 M01P2/78 M01P4/61 M08J421/00
US: 428/454 428/454P 523/351 523/351P 523/351S 524/379 524/381
524/381P 524/386 526/335 526/335S 528/10 528/10S 556/182 556/182P
568/851 568/851S 568/902 568/902S

JP F-Term: 4G076 4G076/AA19 4G076/AA30 4G076/AB03 4G076/AB06
4G076/AB12 4G076/AC04 4G076/BB06 4G076/CA28 4G076/CA36
4G076/DA04 4G076/DA05 4F070 4F070/AA04 4F070/AA06 4F070/AA07
4F070/AA08 4F070/AA12 4F070/AA23 4F070/AA52 4F070/AA53
4F070/AA58 4F070/AC14 4F070/AC15 4F070/AE01 4F070/FB03 4G042
4G042/DA02 4G042/DB11 4G042/DB15 4G042/DB22 4G042/DC03
4G042/DD13 4G042/DE03 4G042/DE05 4G042/DE07 4G076/AA02
4G076/AA10 4G076/AA18 4G076/AA26 4G076/AA28 4G076/AB02
4G076/AB11 4G076/AC01 4G076/BA24 4G076/BD02 4G076/CA29
4G076/DA02 4G076/DA14 4G076/DA15 4G076/DA25 4G076/DA30 4J002
4J002/BB03/1 4J002/BB12/1 4J002/BC03/1 4J002/BD04/1 4J002/BD10/1
4J002/BD14/1 4J002/BG06/1 4J002/CC04/1 4J002/CD00/1 4J002/CF06/1
4J002/CF10/1 4J002/CF19/1 4J002/CG00/1 4J002/CH09/1 4J002/CK02/1
4J002/CL00/1 4J002/CM04/1 4J002/CN02/1 4J002/CN03/1 4J002/CP03/1
4J002/DE04/6 4J002/DE14/6 4J002/FB08/6 4J002/FB09/6 4J002/FD01/6
4J002/GG00 4J002/GG01 4J002/GG02 4J002/GH00 4J002/GK00
4J002/GM00 4J002/GN00 4J002/GQ00 4F070/AA05 4F070/AA09
4F070/AA13 4F070/AA15 4F070/AA42 4F070/AC13 4F070/AD07
4G076/BF06 4J002/AA00/1 4J002/AC01/1 4J002/AC03/1 4J002/AC06/1
4J002/AC07/1 4J002/AC08/1 4J002/AC09/1 4J002/AC11/1 4J002/AC12/1 4J002/BB06/1 4J002/BB07/1 4J002/BB08/1
4J002/CB00/1 4J002/DE06/6 4J002/DE08/6 4J002/DE09/6 4J002/DE10/6 4J002/DE11/6 4J002/FB07/6 4J002/FB23/6 3D131
3D131/AA01 3D131/BA07 3D131/BA08 3D131/BA12 3D131/BA20 4F070/AA16 4F070/AA60 4G076/BB08 4J002/AC01 4J002/AC03
4J002/AC08 4J002/BB15 4J002/BB24 4J002/CP03 4J002/DE04 4J002/DE14 4J002/FB08 4J002/FB09 4J002/FD01 4J002/GN01
JP F-Index: C01F7/00/C C01B13/32 C08J3/22 C08K9/04 C08L101/00 C08L21/00 C08K9/00 B60C1/00/A B60C1/00/Z
C08J3/22/CEQ

JP Facet: CEQ

Family:

Publication number	Publication date	Application number	Application date
AT457958 E	20100315	AT20060830274T	20061201
AT556031 E	20120515	AT20060830271T	20061201
BRPI0619414 A2	20111004	BR2006PI19414	20061201
BRPI0619472 A2	20111004	BR2006PI19472	20061204
BRPI0619473 A2	20111004	BR2006PI19473	20061201
BRPI0619474 A2	20111004	BR2006PI19474	20061201
CA2632631 AA	20080606	CA20062632631	20061201
CA2632637 AA	20080606	CA20062632637	20061201
CA2632654 AA	20080606	CA20062632654	20061201
CA2632674 AA	20080606	CA20062632674	20061204
CN101321691 A	20081210	CN200680045262	20061201
CN101321691 B	20120711	CN200680045262	20061201
CN101321692 A	20081210	CN200680045738	20061201
CN101321692 B	20120822	CN200680045738	20061201
CN101321697 A	20081210	CN200680045383	20061204
CN101360782 A	20090204	CN200680045192	20061201



DE602006012357 D1	20100401	DE200660012357T	20061201
DE602006029313 D1	20120628	DE200660029313T	20061201
EP1957402 A1	20080820	EP20060830271	20061201
EP1957402 B1	20120502	EP20060830271	20061201
EP1957403 A1	20080820	EP20060830274	20061201
EP1957403 B1	20100217	EP20060830274	20061201
EP1957575 A1	20080820	EP20060830273	20061201
EP1966088 A1	20080910	EP20060830327	20061204
ES2340614 T3	20100607	ES20060830274T	20061201
ES2385672 T3	20120730	ES20060830271T	20061201
JP2009518265 T2	20090507	JP20080543798T	20061201
JP2009518266 T2	20090507	JP20080543800T	20061201
JP2009518268 T2	20090507	JP20080543805T	20061204
JP2009518487 T2	20090507	JP20080543799T	20061201
JP5308822 B2	20131009	JP20080543798T	20061201
KR101359597 B1	20140207	KR20087014280	20061201
KR20080074196 A	20080812	KR20087015553	20061201
KR20080075183 A	20080814	KR20087014280	20061201
KR20080077638 A	20080825	KR20087014964	20061204
KR20080086470 A	20080925	KR20087015431	20061201
RU2008127307 A	20100120	RU20080127307	20061204
RU2008127405 A	20100120	RU20080127405	20061201
RU2008127416 A	20100120	RU20080127416	20061201
RU2008127418 A	20100120	RU20080127418	20061201
RU2424975 C2	20110727	RU20080127418	20061201
RU2426688 C2	20110820	RU20080127307	20061204
RU2428373 C2	20110910	RU20080127405	20061201
TW200734269 A	20070916	TW20060145442	20061206
TW200734275 A	20070916	TW20060145446	20061206
TW200734387 A	20070916	TW20060145443	20061206
TW200736161 A	20071001	TW20060145444	20061206
TWI381991 B	20130111	TW20060145442	20061206
TWI398405 B	20130611	TW20060145444	20061206
US2008293849 AA	20081127	US20060096455	20061201
US2008293957 AA	20081127	US20060096433	20061201
US2008300352 AA	20081204	US20060096485	20061204
US2008311410 AA	20081218	US20060096442	20061201
US7786202 BB	20100831	US20060096485	20061204
US7968740 BB	20110628	US20060096433	20061201
WO07065859 A1	20070614	WO2006EP69204	20061201
WO07065860 A1	20070614	WO2006EP69206	20061201
WO07065861 A1	20070614	WO2006EP69207	20061201
WO07065877 A1	20070614	WO2006EP69261	20061204

Priority:

EP20050111752	20051206	US20050751206P	20051219	EP20050112777	20051222
EP20050112820	20051222	US20060759583P	20060118	EP20060112709	20060418
EP20060114707	20060530	US20060810628P	20060605	US20060813374P	20060614
EP20060830271	20061201	EP20060830273	20061201	EP20060830274	20061201
US20060096455	20061201	US20060096442	20061201	US20060096433	20061201
WO2006EP69204	20061201	WO2006EP69206	20061201	WO2006EP69207	20061201
EP20060830327	20061204	US20060096485	20061204	WO2006EP69261	20061204

Probable Assignee: AKZO NOBEL NV

Assignee(s): (std): AKZO NOBEL NV ; VELPERWEG 76 ; WINTERS ROBIN ; TONNAER HAIMO ; SCHOMAKER ELWIN ; DE VOS SIEBE CORNELIS ; REEDIJK MARIANNE FREDERIKA ; AKZO NOBEL N V INTELLECTUAL PR ; ZIJTVELD VAN DER WIEL JOHANNA

Assignee(s): ZIJTVELD VAN DER WIEL JOHANNA HENRIETTE ; AKZO NOBEL N V INTELLECTUAL PROPERTY DEPT AIP ; AKZO NOBEL INTELLECTUAL PROPERTY NV ; AKTSO NOBEL N V ; AKTSO NOBEL NV ; AKZO NOBEL N V ; ZIJTVELD VAN D WIEL JOHANNA HENRIETTE

Inventor(s): (std): CORNELIS DE VOS SIEBE ; DE VOS SIBE KORNELIS ; DE VOS SIEBE CORNELIS ; ELWIN SCHOMAKER ; HAIMO TONNAER ; FREDERIKA REEDIJK MARIANNE ; REEDIJK MARIANNE FREDERIKA ; ROBIN WINTERS ; REDEJK MARIANNA FREDERIKA ; WINTERS ROBIN ; ZIJTVELD VAN DER WIEL JOHANNA ; SCHOMAKER ELWIN ; TONNAER HAIMO ; JOHANNA ZIJTVELD VAN DER WIEL ; JOHANNA ZIJTVELD VAN D WIEL ; SKHOMAKER EHLVIN ; VINTERS ROBIN ; ZIJTVELD VAN D WIEL JOHANNA HENRIETTE ; ZIJTVELD VAN D WIEL JOHANNA ; ZIJTVELD VAN D WIEL JOHANNA HENRIUTTE ; ZIJTVELD VAN D WIEL JOHANNA HENRIET ; ZIJTVELD VAN D WIEL JOHANNA HENRIETTA ; ZEJTVELD VAN D VIL JOKHANNA GENRIETTA ; ZIJTVELD VAN DER WIEL JOHANNA HENRIETTE ; ZIJTVELD VAN DER WIEL JOHANNA HENRIUTTE ; ZIJTVELD VAN DER WIEL JOHANNA HENRIET ; ZIJTVELD VAN DER WIEL JOHANNA HENRIETTA ; ZEJTVELD VAN DER VIL JOKHANNA GENRIETTA

Inventor(s): ZEJTVELD-VAN DER VIL JOKHANNA GENRIETTA ; SIEBE CORNELIS DE VOS ; JOHANNA HENRIUTTE ZIJTVELD VAN D WIEL ; ZIJTVELD VAN D WIEL JOHANNA HENRIETTE ; MARIANNE FREDERIKA REEDIJK ; JOHANNA HENRIUTTE ZIJTVELD VAN DER WIEL

Agent(s): OGILVY RENAULT LLP SENCRL SRL; VOSSIUS AND PARTNER PATENTANWAELTE RECHTSANWAELTE MBB; SCHALKWIJK PIETER CORNELIS; KENYON AND KENYON LLP

Designated states: BE 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 GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: PREPARATION OF SUSPENSIONS

Abstract: A method for preparing a suspension of LDH particles comprises the steps of preparing LDH precipitates by coprecipitation to form a mixture of LDH precipitates and solution; separating the LDH precipitates from the solution; washing the LDH precipitates to remove residual ions; mixing the LDH precipitates with water; and subjecting the mixture of LDH particles and water from step (d) to a hydrothermal treatment step by heating to a temperature of from greater than 80 degrees centigrade to 150 degrees centigrade for a period of about 1 hour to about 144 hours to form a well dispersed suspension of LDH particles in water.

Classifications:

International (IPC 8-9): A61K33/00 A61P1/04 B01F3/12 B01J13/00 B01J23/00 B01J32/00 B82Y30/00 C01B13/36 C01B31/00 C01F1/00 C01F5/14 C01F7/00 C01F7/16 C01G1/00 C01G1/04 C01G49/00 C01G51/00 C09K21/02 C09K3/00 C30B28/04 C30B29/22 C30B29/26 C30B29/64 C30B29/68 C30B33/02 (Advanced/Invention); C01C1/26 (Advanced/Non-invention); A61K33/00 A61P1/00 B01F3/12 B01J13/00 B01J23/00 B01J32/00 C01F5/00 C01F7/00 C09K21/00 C09K3/00 C30B28/00 C30B29/00 C30B29/10 (Core/Invention)

International (IPC 1-7): C30B29/26

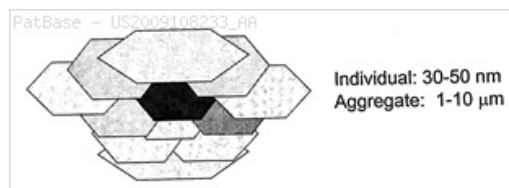
CPC: C01F7/002 B82Y30/00 C01B13/363 C01P2002/22 C01P2004/04 C01P2004/22 C01P2004/50 C01P2004/51 C01P2004/52 C01P2004/53 C01P2004/62 C01P2004/64 C01P2006/22 C01G51/006 C01G49/009 C01P2004/20 C01F7/004

European: B82Y30/00 C01F7/00D M01P2/22 M01P4/51 M01P4/62 M01P4/64

US: 1/1 252/182.32 252/182.320S 252/182.33 252/182.35 252/184 252/184S 252/610 252/610S 423/387 423/397 423/414 423/416 423/417 423/420 423/420.2 423/463 423/518 424/600 424/600P 502/300 502/300S 502/439 502/439S 516/88 977/777

JP F-Term: 3C082 4G065 4G065/AA01 4G065/AA06 4G065/BB06 4G065/CA11 4G065/DA02 4G065/DA04 4G065/DA05 4G065/EA01 4G065/EA03 4G065/EA05 4G065/EA10 4G065/FA02 4G076 4G076/AA10 4G076/AA21 4G076/AB04 4G076/AB07 4G076/BA12 4G076/BC02 4G076/BC07 4G076/BD02 4G076/BD10 4G076/CA15 4G076/DA01 4G076/DA05 4G076/DA16 4G076/DA25

JP F-Index: B01J13/00/B B82Y30/00 B82Y40/00 C01F7/00/C

**Family:**

Publication number	Publication date	Application number	Application date
AU2005318862 AA	20060629	AU20050318862	20051221
AU2005318862 BB	20080110	AU20050318862	20051221
CA2594132 AA	20070626	CA20052594132	20051221
CA2594132 C	20130702	CA20052594132	20051221
CN101128626 A	20080220	CN200580048673	20051221
CN101128626 B	20120104	CN200580048673	20051221
EP1838906 A1	20071003	EP20050818390	20051221
EP1838906 A4	20150701	EP20050818390	20051221
EP1838906 B1	20180502	EP20050818390	20051221
ES2687187 T3	20181024	ES20050818390T	20051221
IN04976DN2007 A	20070817	IN2007DN04976	20070627
IN262260 B	20140815	IN2007DN04976	20070627
JP2008525292 T2	20080717	JP20070547095T	20051221
JP5149014 B2	20130220	JP20070547095T	20051221
US2009108233 AA	20090430	US20050722650	20051212
US2010233286 AA	20100916	US20100787780	20100526
US2014127117 AA	20140508	US20140152875	20140110
US2016083264 AA	20160324	US20150960926	20151207
US8728346 BB	20140520	US20100787780	20100526
US9206053 BB	20151208	US20140152875	20140110
US10167203 BB	20190101	US20150960926	20151207
WO06066341 A1	20060629	WO2005AU01948	20051221

Priority:

AU20040907326 20041224	WO2005AU01948 20051212	AU20050318862 20051221
EP20050818390 20051221	WO2005AU01948 20051221	US20080722650 20080505
US20100787780 20100526	US20140152875 20140110	US20150960926 20151207

Probable Assignee: QUEENSLAND UNIV OF

Assignee(s): (std): LU GAOQING ; UNIV OF QUEENSLAND ; UNIV QUEENSLAND ; XU ZHIPING ; UNIVERISTY OF QUEENSLAND

Assignee(s): OF QUEENSLAND UNIV ; QUEENSLAND UNIV ; QUEENSLAND UNIV OF ; THE UNIVERISTY OF QUEENSLAND ; THE UNIVERSITY OF QUEENSLAND

Inventor(s): (std): GAOQING LU ; LU GAOQING ; XU ZHIPING ; ZHIPING XU

Agent(s): CULLENS PTY LTD; SPRUSON AND FERGUSON; CULLENS PATENT AND TRADE MARK ATTORNEYS; GOUDREAU GAGE DUBUC; LAVERY DE BILLY LLP; HOFFMANN EITLE; FUSTER GUSTAVO NICOLAS; KNOBBE MARTENS OLSON AND BEAR 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 KN KP KR KZ LC LI LK LR LS LT LU LV LY 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

Title: COMPOSITE METAL HYDROXIDES

Abstract: A composite metal hydroxide expressed by the following composition formula: $Mx2<+> My3<+> (OH)2x+3y-2z (A2<-> z). aH_2O$, such composite metal hydroxide having a layer crystal structure and exhibiting an endothermal peak owing to isolation of crystal water at a temperature exceeding 200 DEG C. in the differential thermal analysis.

Classifications:

International (IPC 8-9): A61K33/06 B01J20/06 B01J21/10 B01J23/00 B01J23/26 B01J23/745 B01J27/00 B01J27/232 B01J37/03 B01J41/10 C01B13/14 C01B13/36 C01B35/12 C01F1/00 C01F17/00 C01F5/00 C01F7/00 C01G1/00 C01G1/10 C01G37/00 C09C1/00 C09K3/00 (Advanced/Invention);

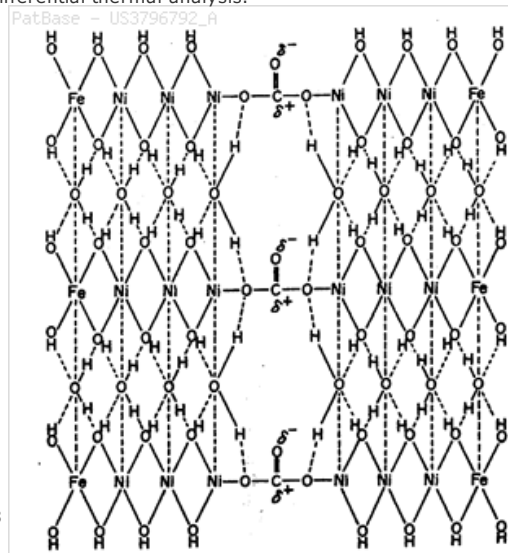
A61K33/06 B01J20/06 B01J21/00 B01J23/00 B01J23/16 B01J23/745 B01J27/00 B01J27/20 B01J37/00 B01J41/00 C01B13/14 C01B13/36 C01B35/00 C01F1/00 C01F17/00 C01F5/00 C01F7/00 C01G1/00 C01G1/10 C01G37/00 C09C1/00 C09K3/00 (Core/Invention)

International (IPC 1-7): A61K27/00 C01B13/11 C01B13/14 C01B35/00 C01B35/12 C01F1/00 C01F17/00 C01F5/00 C01G1/00 C01G1/02 C01G49/00 C01G56/00 C09C1/00 C09K3/00

CPC: C09C1/0081 A61K33/06 B01J20/06 B01J21/10 B01J23/00 B01J23/007 B01J23/26 B01J23/745 B01J27/00 B01J27/232 B01J37/03 B01J41/10 C01B13/363 C01G1/00 C01G1/10 C01P2002/04 C01P2002/22 C01P2002/72 C01P2002/74 C01P2002/77 C01P2002/82 C01P2002/88 C01P2006/10 C01P2006/37 C01P2006/80

European: A61K33/06 B01J20/06 B01J21/10 B01J23/00 B01J23/00Z B01J23/26 B01J23/745 B01J27/00 B01J27/232 B01J37/03 B01J41/10 C01B13/36B C01G1/00 C01G1/10 C09C1/00H M01P2/04 M01P2/22 M01P2/72 M01P2/74 M01P2/77 M01P2/82 M01P2/88 M01P6/10 M01P6/37 M01P6/80

US: 106/453 106/454 106/455 106/457 106/459 106/461 106/466 106/467 252/62 252/62.64 252/625 417/477.1 423/25.0 423/250 423/253 423/277 423/308 423/311 423/326 423/331 423/365 423/415.1 423/464 423/508 423/518 423/594.7 423/594.8 423/595 423/600 423/603 423/618



Family:

Publication number	Publication date	Application number	Application date
CA927074 A1	19730529	CA19700100459	19701211
CA927075 A1	19730529	CA19700100461	19701211
CA932120 A1	19730821	CA19700100458	19701211
CA932121 A1	19730821	CA19700100460	19701211
DE2061094 A1	19710819	DE19702061094	19701211
DE2061114 A1	19710715	DE19702061114	19701211
DE2061114 C2	19841004	DE19702061114	19701211
DE2061136 A1	19710715	DE19702061136	19701211
DE2061156 A1	19710715	DE19702061156	19701211
FR2081349 A1	19711203	FR19700044975	19701214
FR2081349 B1	19750801	FR19700044975	19701214
FR2081350 A1	19711203	FR19700044976	19701214
FR2081350 B1	19751031	FR19700044976	19701214
FR2081351 A1	19711203	FR19700044977	19701214
FR2081351 B1	19750801	FR19700044977	19701214
FR2081352 A1	19711203	FR19700044978	19701214
FR2081352 B1	19750801	FR19700044978	19701214
GB1336863 A	19731114	GB19700059109	19701211
GB1336864 A	19731114	GB19700059110	19701211
GB1336865 A	19731114	GB19700059119	19701211
GB1336866 A	19731114	GB19700059120	19701211
US3796792 A	19740312	US19700096084	19701208
US3879523 A	19750422	US19700096214	19701208
US3879525 A	19750422	US19700096430	19701209

Priority:

JP19690099358 19691212

Probable Assignee: KYOWA CHEM IND CO LTD

Assignee(s): (std): KYOWA CHEM IND CO LTD

Assignee(s): KYOWA CHEM IND CO LTD JA ; KYOWA CHEMICAL IND CO ; KYOWA CHEMICAL IND CO LTD ; KYOWA CHEMICAL IND COLTD ; KYOWA CHEMICAL INDUS ; KYOWA CHEMICAL INDUSTRY LTD ; KYOWA CHEMICAL INDUS JA ; KYOWA CHEMICAL INDUSTRY CO ; KYOWA CHEMICAL INDUSTRY CO LTD ; KYOWA CHEMICAL INDUSTRY CO LTD TOKIO TOKYO JP ; TERUHIKO KUMURA ; SHIGEO MIYATA ; MINORU SHIMADA

Inventor(s): (std): KUMURA TERUHIKO ; MIYATA S ; MIYATA SHIGEO ; SHIMADA M ; SHIMADA MINORU

Inventor(s): SHIMADA MINORU TAKAMATSU KAGAWA JP ; TERUHIKO KUMURA ; SHIMADA M JA ; SHIGEO MIYATA ; MIYATA S JA ; MINORU SHIMADA

8) Family number: 12864670 (US5514361A)

© PatBase

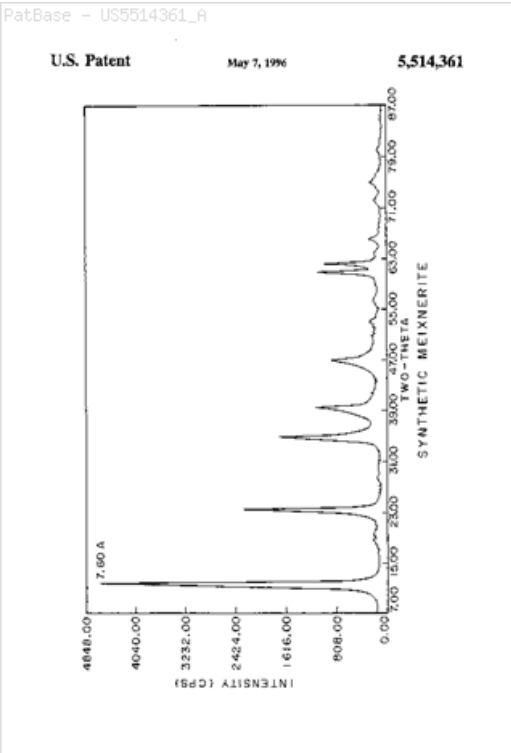
Title: METHOD FOR MAKING A SYNTHETIC MEIXNERITE PRODUCT

Abstract: There is disclosed an improved method for making synthetic meixnerite having reduced carbonate contamination levels and a x-ray diffraction pattern resembling that shown in Fig. 1, the meixnerite is made by combining magnesium oxide and transition alumina, preferably an activated alumina powder having a BET surface area of about 100 m²/g or greater, in a

substantially carbonate-free environment.

Classifications:

International (IPC 8-9): B01J23/00 C01B13/14 C01B13/36 C01B19/00 C01B33/38 C01F5/00 C01F7/00 C01F7/16 C01G1/00 C01G3/00 C01G31/00 C01G39/00 C01G41/00 C01G45/00 C01G49/00 C01G53/00 C01G9/00 C07C51/41 (Advanced/Invention); C01B13/14 C01F5/00 (Advanced/Non-invention); B01J23/00 C01B13/14 C01B13/36 C01B19/00 C01B33/00 C01F5/00 C01F7/00 C01G1/00 C01G3/00 C01G31/00 C01G39/00 C01G41/00 C01G45/00 C01G49/00 C01G53/00 C01G9/00 C07C51/41 (Core/Invention)
International (IPC 1-7): C01B13/14 C01B13/36 C01F11/18 C01F5/00 C01F7/00 C01F7/00 C01F7/16 C01F7/54 C07F11/00 C07F13/00 C10F7/00
CPC: C01P2002/02 C01P2002/77 C01P2002/78 C01P2004/64 C01P2006/80 B82Y30/00 C01P2002/74 C07C51/412 B01J23/007 C01B13/363 C01B19/002 C01B33/38 C01F7/00 C01F7/002 C01F7/005 C01G3/006 C01G9/006 C01G31/006 C01G39/006 C01G41/006 C01G45/006 C01G49/009 C01G53/006 C01P2002/22 C01P2002/72 C01P2004/61 C01P2004/62 C01P2006/12 C01P2006/82 C01G1/00 C01P2004/50
European: B01J23/00Z B82Y30/00 C01B13/36B C01B19/00D C01B33/38 C01F7/00 C01F7/00D C01F7/00D2H C01G1/00 C01G3/00D C01G31/00D C01G39/00D C01G41/00D C01G45/00D C01G49/00D C01G53/00D C01G9/00D C07C51/41B M01P2/02 M01P2/22 M01P2/72 M01P2/74 M01P2/77 M01P2/78 M01P4/50 M01P4/61 M01P4/62 M01P4/64 M01P6/12 M01P6/80 M01P6/82
US: 252/518.1 423/306 423/367 423/395 423/420.2 423/463 423/556 423/557 423/558 423/593 423/593.1 423/594 423/594.1 423/594.16 423/594.3 423/594.7 423/594.8 423/595 423/599 423/600 534/15 534/16 556/1 556/112 556/114 556/121 556/13 556/131 556/140 556/147 556/15 556/16 556/19 556/43 556/44 556/46 556/49 556/58 556/61 556/62 556/87 556/90
JP F-Term: 4G042 4G042/DA02 4G042/DA03 4G042/DB03 4G042/DB12 4G042/DD01 4G042/DE03 4G042/DE05 4G042/DE06 4G042/DE08 4G042/DE12 4G042/DE13 4G076 4G076/AA06 4G076/AA07 4G076/AA10 4G076/AA16 4G076/AA18 4G076/AA19 4G076/AB02 4G076/AB06 4G076/AB09 4G076/AB10 4G076/BD02 4G076/CA02 4G076/CA28 4G042/DB07 4G042/DB22 4G042/DB24 4G076/AA02 4G076/AA21 4G076/AC01 4G076/BA24 4G076/CA08 4G076/CA33 4G076/CA36
JP F-Index: C01B13/14/Z C01B13/36 C01F7/00/C C01F7/00/Z C01F7/16



Family:

Publication number	Publication date	Application number	Application date
AT186281 E	19991115	AT19950907323T	19950106
AT190589 E	20000415	AT19950907324T	19950106
AU199515593 A1	19960307	AU19950015593	19950106
AU199515594 A1	19951129	AU19950015594	19950106
AU704214 B2	19990415	AU19950015593	19950106
AU708168 B2	19990729	AU19950015594	19950106
BRPI9507557 A	19970805	BR1995PI07557	19950106
BRPI9508872 A	19980106	BR1995PI08872	19950106
CA2189020 AA	19961028	CA19952189020	19950106
CA2197664 AA	19970214	CA19952197664	19950106
CA2197664 C	20000808	CA19952197664	19950106
CZ293606 B6	20040616	CZ19970000469	19950106
CZ9603162 A3	19970416	CZ19960003162	19950106
CZ9700469 A3	20040317	CZ19970000469	19950106
DE69513182 D1	19991209	DE19956013182	19950106
DE69513182 T2	20000525	DE19956013182T	19950106
DE69515658 D1	20000420	DE19956015658	19950106
DE69515658 T2	20000831	DE19956015658T	19950106
EP0759888 A1	19970305	EP19950907324	19950106
EP0759888 B1	20000315	EP19950907324	19950106
EP0776317 A1	19970604	EP19950907323	19950106
EP0776317 B1	19991103	EP19950907323	19950106
ES2140657 T3	20000301	ES19950907323T	19950106
ES2143615 T3	20000516	ES19950907324T	19950106
HU221280 B1	20020928	HU19980001426	19950106
HU75979 A2	19970528	HU19960002991	19950106
HU77873 A2	19980928	HU19980001426	19950106
HU9602991 A0	19970128	HU19960002991	19950106
IL114953 A0	19951208	IL19950114953	19950815
IL114953 A1	20000716	IL19950114953	19950815
JP10503465 T2	19980331	JP19960507274T	19950106
JP3112684 B2	20001127	JP19960507274T	19950106
JP9512519 T2	19971216	JP19950528181T	19950106
MX9605210 A1	19970930	MX19960005210	19950106
MX9701189 A1	19970531	MX19970001189	19950106
RU2155710 C2	20000910	RU19960122864	19950106
RU97104121 A	19990310	RU19970104121	19970315
SK139596 A3	19970806	SK19960001395	19950106
SK21197 A3	19971210	SK19970000211	19950106
US5514361 A	19960507	US19940235504	19940429
US5578286 A	19961126	US19950482390	19950607

US5728363 A	19980317	US19960625584	19960328
US5728364 A	19980317	US19960629717	19960409
US5728365 A	19980317	US19960645665	19960514
US5728366 A	19980317	US19960645666	19960514
US5730951 A	19980324	US19960647509	19960514
US5776424 A	19980707	US19960629713	19960409
WO9529874 A1	19951109	WO1995US00167	19950106
WO9605140 A1	19960222	WO1995US00166	19950106

Priority:

US19940235504	19940429	US19940290220	19940815	WO1995US00167	19950106
WO1995US00166	19950106	US19950482390	19950607	US19950473585	19950607
US19950472205	19950607	US19950476521	19950607	US19950485414	19950607
US19950487816	19950607	US19960625584	19960328	US19960629713	19960409
US19960629717	19960409	US19960645666	19960514	US19960647509	19960514
US19960645665	19960514				

Probable Assignee: ALMATIS AC INC

Assignee(s): (std): ALUMINUM CO OF AMERICA ; ALUMINUM CO OF AMERICA AL ; ALUMINUM CO AMERICA ALCOA CT ; MARTIN EDWARD S ; PEARSON ALAN ; HORN WILLIAM E JR ; STINSON JOHN M ; CEDRO VITO III ; ALJUMINUM KOMPANI OF AMERIKA ; ALUMINUM COMPANY OF AMERICA AL

Assignee(s): HORN WILLIAM E ; ALMATIS AC INC ; ALUMINIM CO ; ALCOA INC ; ALCOA WORLD ALUMINA LLC ; BANK OF NOVA SCOTIA ; ALUMINUM COMPANY OF AMERICA ; ALUMINUM COMPANY OF AMERICA ALCOA CENTER ; ALUMINUM CO ; ALUMINIUM CO OF AMERICA ; ALUMINIUM COMPANY OF AMERICA ; ALUMINIM CO OF AMERICA ; ALUMINUM CO OF AMERICA ALCOA CENTER

Inventor(s): (std): CEDRO III VITO ; CEDRO VITO ; HORN JR WILLIAM E ; HORN WILLIAM ; MARTIN EDWARD ; MARTIN EDWARD S ; STINSON JOHN ; STINSON JOHN M ; PEARSON ALAN ; ALAN PIRSON ; HORN WILLIAM E JR ; EHDVARD S MARTIN ; HORN WILLIAM E ; CEDRO VITO III

Inventor(s): ALAN PEARSON ; JOHN M STINSON ; EDWARD S MARTIN ; WILLIAM E HORN JR ; WILLIAM E HORN ; VITO CEDRO III

Agent(s): PHILLIPS ORMONDE FITZPATRICK; SMART AND BIGGAR; SANFORD TCOLB AND CO

Designated states: AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IT JP KE KG KP KR KZ LK LR LT LU LV MC MD MG ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SI SK SN SZ TD TG TJ TT UA US UZ VN

9) Family number: 42859312 (US2010287823A)

© PatBase

Title: METHODS, SYSTEMS, AND APPARATUS FOR OBTAINING BIOFUEL FROM COFFEE AND FUELS PRODUCED THEREFROM

Abstract: In some embodiments, the present disclosure provides a method for producing biofuel from a feedstock that includes one or more coffee sources, such as green coffee beans, whole roasted coffee beans, ground coffee, or spent coffee grounds. Triglycerides and other materials, such as antioxidants, are extracted from the coffee source. In some example, the triglycerides are then transesterified to produce a fatty acid ester biofuel product. In further examples, the method includes obtaining spent coffee grounds from one or more sources, such as residences or businesses that generate spent coffee grounds. The present disclosure also provides biofuels produced using the disclosed method, including mixtures of such biofuels with other fuels, such as other biofuels or petroleum based fuels. Materials obtained from the disclosed method may be put to other uses, such as cosmetics, medicinal products, food products, or combustible materials.

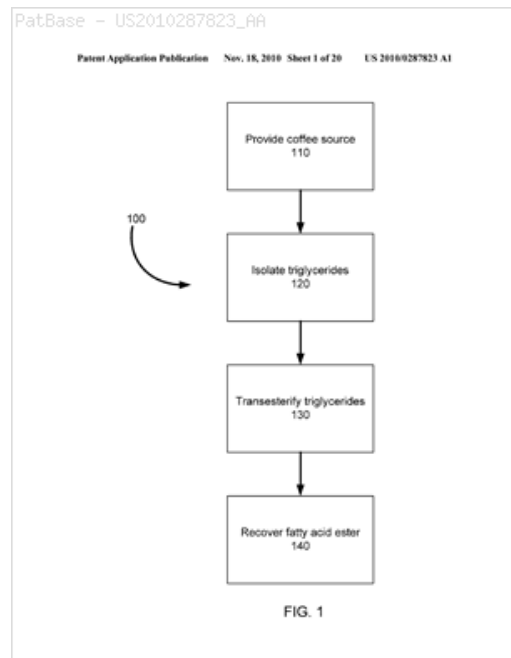
Classifications:

International (IPC 8-9): C10G3/00 C10L1/18 C10L1/19 C10L5/44 C11B1/10 (Advanced/Invention); C10G3/00 C10L1/10 C10L5/40 (Core/Invention)

CPC: C10L1/026 C10L5/44 C10G2300/1011 C10L1/19 C10L9/083 C11C3/003 Y02E50/10 Y02E50/15 Y02E50/30 Y02E50/13 Y02P30/20

European: C10L1/19 C10L5/44 C10L9/08B C11C3/00B M10G300/10B Y02E50/10 Y02E50/15 Y02E50/30

US: 44/307 44/388 44/398 44/398P 554/17 554/17S 554/9 554/9S



Family:

Publication number	Publication date	Application number	Application date
US2010287823 AA	20101118	US20080669958	20080725
US8491675 BB	20130723	US20080669958	20080725

US8591605 BB	20131126	US20080669958	20080725
WO09015358 A2	20090129	WO2008US71236	20080725
WO09015358 A3	20090319	WO2008US71236	20080725

Priority:

US20070952175P 20070726 US20080034012P 20080305 WO2008US71236 20080725
US20080669958 20080725

Probable Assignee: BOARD OF NEVADA SYSTEM OF HIGHER EDUCATION ON BEHALF OF UNIV OF NEVADA RENO

Assignee(s): (std): KONDAMUDI NARASIMHARAO ; KONDAMUDI NARASIMHARAO V ; MOHAPATRA SUSANTA KUMAR ; MISRA MANORANJAN ; NEVADA SYSTEM OF HIGHER EDUCAT ; UNIV NEVADA

Assignee(s): BOARD OF NEVADA SYSTEM OF HIGHER EDUCATION ON BEHA ; BOARD OF NEVADA SYSTEM OF HIGHER EDUCATION ON BEHALF OF UNIV NEVADA RENO ; BOARD OF NEVADA SYSTEM OF HIGHER EDUCATION ON BEHALF OF UNIV OF NEVADA RENO ; THE BOARD OF REGENTS OF THE NEVADA SYSTEM OF HIGHER EDUCATION ON BEHALF OF THE UNIVERSITY OF NEVADA RENO

Inventor(s): (std): MOHAPATRA SUSANTA KUMAR ; MISRA MANORANJAN ; KONDAMUDI NARASIMHARAO ; KONDAMUDI NARASIMHARAO V

Agent(s): UNR/DRI TECHNOLOGY TRANSFER OFFICE; UNR DRI TECHNOLOGY TRANSFER OFFICE; RYAN A; HECK RYAN A

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI 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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

10) Family number: 48462845 (US2012201733A)

© PatBase

Title: HYDROCARBON-DECOMPOSING POROUS CATALYST BODY AND PROCESS FOR PRODUCING THE SAME, PROCESS FOR PRODUCING HYDROGEN-CONTAINING MIXED REFORMED GAS FROM HYDROCARBONS, AND FUEL CELL SYSTEM

Abstract: The present invention relates to a porous catalyst body for decomposing hydrocarbons, comprising a porous composite oxide comprising at least magnesium and/or calcium, and aluminum, and metallic nickel having a particle diameter of 1 to 25 nm, wherein the porous catalyst body has an average crushing strength of not less than 5 kgf and a displacement length of not less than 0.05 mm as measured by compressing the porous catalyst body under a load of 5 kgf. The porous catalyst body for decomposing hydrocarbons according to the present invention is less expensive, and has an excellent catalytic activity for decomposition and removal of hydrocarbons, an excellent anti-sulfur poisoning property, a high anti-coking property even under a low-steam condition, a crushing strength and a displacement length which are optimum for DSS operation, and an excellent durability.

Classifications:

International (IPC 8-9): B01D53/00 B01J21/02 B01J21/04 B01J21/16 B01J23/00 B01J23/755 B01J23/78 B01J29/04 B01J35/00 B01J35/10 B01J37/00 B01J37/02 B01J37/04 B01J37/16 C01B3/40 H01M8/06 H01M8/0612 (Advanced/Invention); B82Y30/00 B82Y40/00 (Advanced/Non-invention)

CPC: H01M8/0618 B01J21/04 B01J23/007 B01J23/755 B01J23/78 B01J29/049 B01J35/0006 B01J35/1014 B01J35/1019 B01J37/0036 B01J37/0201 B01J37/0207 B01J37/04 C01B3/40 C01B3/40 C01B2203/0233 C01B2203/0244 C01B2203/0261 C01B2203/066 C01B2203/1058 C01B2203/1064 C01B2203/1082 C01B2203/1604 C01B2203/1609 Y02P70/56 Y02P20/52

European: B01J21/04 B01J23/00Z B01J23/755 B01J23/78 B01J29/04P B01J35/00B B01J35/10A4 B01J35/10A6 B01J37/00B4B B01J37/02B B01J37/02B6 B01J37/04 C01B3/40 H01M8/06B2A M01B203/02B4B M01B203/02B4F M01B203/02D4 M01B203/06H M01B203/10D2B2 M01B203/10D2D M01B203/10D8 M01B203/16B M01B203/16D Y02E60/50

US: 423/245.1 423/245.100P 429/425 429/425S 502/327 502/327S 502/328 502/328S 977/773 977/773S 977/896 977/896S

JP F-Term: 3C082 4G140 4G140/EA03 4G140/EA06 4G140/EC02 4G140/EC03 4G140/EC04 4G140/EC05 4G169 4G169/AA01 4G169/AA03 4G169/AA08 4G169/BA10 4G169/BB06 4G169/BC01 4G169/BC08 4G169/BC09 4G169/BC10 4G169/BC16 4G169/BC32 4G169/BC33 4G169/BC38 4G169/BC68 4G169/BC69 4G169/BC71 4G169/CC32 4G169/DA06 4G169/EA04 4G169/EB18 4G169/ED03 4G169/FA01 4G169/FA02 4G169/FB30 4G169/FB44 4G169/FB67 4G169/FC08 5H027 5H027/AA04 5H027/AA05 5H027/AA06 5H027/BA01 5H127 5H127/AC06 5H127/AC07 5H127/BA05 5H127/BA12

JP F-Index: B01J21/16/M B01J37/16 B82Y30/00 C01B3/40 H01M8/06/G H01M8/0612

Family:

Publication number	Publication date	Application number	Application date
CA2773469 AA	20120307	CA20102773469	20100908
CN102574103 A	20120711	CN201080039804	20100908
CN102574103 B	20140514	CN201080039804	20100908
EP2476484 A1	20120718	EP20100815395	20100908
EP2476484 A4	20140820	EP20100815395	20100908
EP2476484 B1	20181107	EP20100815395	20100908
JP2011056391 A2	20110324	JP20090208440	20090909
JP5477561 B2	20140423	JP20090208440	20090909
US2012201733 AA	20120809	US20100395213	20100908
WO11030800 A1	20110317	WO2010JP65438	20100908

Priority:

JP20090208440 20090909 WO2010JP65438 20100908

Probable Assignee: TODA KOGYO CORP

Assignee(s): (std): HISAYUKU YURIE ; KOBAYASHI NAOYA ; TAKAHASHI SHINJI ; TODA KOGYO CORP

Inventor(s): (std): HISAYUKI YURIE ; KOBAYASHI NARIYA ; YURIE HISAYUKU ; SHINJI TAKAHASHI ; NAOYA KOBAYASHI ; KOBAYASHI NAOYA ; TAKAHASHI SHINJI ; HISAYUKU YURIE

Agent(s): GOUDREAU GAGE DUBUC; WOODS GEOFFREY CORLETT; J A KEMP; OKADA KAZUHIKO

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ 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 IS IT KE KG KM KN KP KR KZ LA LC LI 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 PE PG PH PL PT RO RS RU 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: INFRARED ABSORBER AND AGRICULTURAL FILM

Abstract: An infrared absorber which comprises containing as an effective ingredient a hydroxide complex salt represented by the formula (wherein M^{2+} is a divalent metal, An^- is an anion having a valence of n , and m , x and y are numbers respectively in the ranges of 0 less than or equal to $m < 5$, 0.01 less than or equal to x less than or equal to 0.5 and 0 less than or equal to y less than or equal to 0.5), which has a high ability to absorb infrared rays and a refractive index close to that of the resin so that it has a good dispersibility with the resins when incorporated in the resin and the shaped film therefrom is excellent in the heat insulation property and transparency so that it is suitable as an agricultural film.

Classifications:

International (IPC 8-9): A01G13/02 C09K3/00 (Advanced/Invention); C09K3/00 (Advanced/Non-invention);

A01G13/02 C09K3/00 (Core/Invention)

International (IPC 1-7): A01G13/02 A01G13/04 C08K5/5333 C09K C09K3/00

CPC: A01G9/1438 Y02A40/252

European: A01G13/02 A01G13/02S2B

US: 423/179.5 423/420.2 423/421 47/2 47/29 523/135 524/127 524/417 524/424 524/436

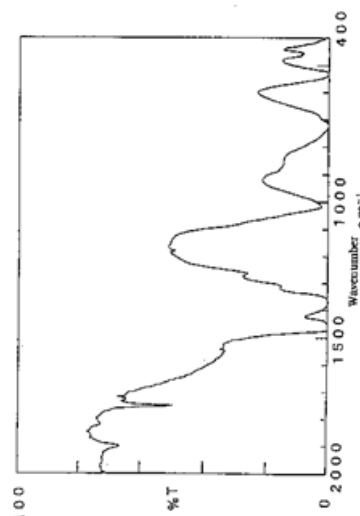
JP F-Term: 2B024 2B024/DA03 2B024/DA04 2B024/DA07 2B024/DB01 4H016

JP F-Index: A01G13/02/E A01G13/02/F C09K3/00/105

PatBase - US6248817_BA

U.S. Patent Jun. 19, 2001 Sheet 1 of 3 US 6,248,817 B1

Fig. 1



Family:

Publication number	Publication date	Application number	Application date
DE69711450 D1	20020502	DE19976011450	19971016
DE69711450 T2	20021121	DE19976011450T	19971016
EP0964042 A1	19991215	EP19970944149	19971016
EP0964042 A4	19991215	EP19970944149	19971016
EP0964042 B1	20020327	EP19970944149	19971016
ES2172004 T3	20020916	ES19970944149T	19971016
IL129489 A0	20000229	IL19970129489	19971016
JP3804987 B1	20060802	JP19980519209T	19971016
JP3804987 B2	20060802	JP19980519209T	19971016
KR100492053 B1	20050531	KR19997003530	19971016
KR20000052730 A	20000825	KR19997003530	19971016
PT964042 T	20020930	PT19970944149T	19971016
US6248817 BA	20010619	US19990284775	19990420
WO9817739 A1	19980430	WO1997JP03745	19971016

Priority:

JP19960300888 19961024 WO1997JP03745 19971016

Probable Assignee: FUJI CHEMICAL IND CO LTD

Assignee(s): (std): FUJI CHEM IND CO LTD ; TAKADO KANEMASA ; FUJI CHEMISTRY INDUSTRY CO LTD ; FUJI CHEMISTRY IND CO LTD

Assignee(s): FUJI CHEMISTRY IND CO ; FUJI CHEMICAL INDUSTRY CO LTD ; FUJI CHEMICAL IND ; FUJI CHEMICAL IND CO ; FUJI CHEMICAL IND CO LTD ; FUJI CHEMICAL INDUSTRY CO

Inventor(s): (std): TAKADO KANEMASA FUJI CHEMICAL ; TAKADO KANEMASA

Inventor(s): KANEMASA TAKADO ; TAKADO KANEMASA FUJI CHEMICAL IND CO

Designated states: AT BE CH DE DK ES FI FR GB GR IE IL IT JP KR LU MC NL PT SE US

Title: COMPOSITE MATERIALS HAVING GRAPHENE LAYERS AND PRODUCTION AND USE THEREOF

Abstract: The present invention relates to composites having graphene layers and also processes for producing these composites. The invention further relates to a process for producing graphene layers using the composites of the invention.

Classifications:

International (IPC 8-9): B05D3/02 B32B27/06 B32B9/00 B32B9/04
C01B31/02 C01B31/04 C01B33/44 C08J3/00 C08J5/24 C08K3/04
C08K3/20 C08K3/26 C08K3/34 C08L33/20 (Advanced/Invention);
B82Y30/00 B82Y40/00 (Advanced/Non-invention);
C08K3/04 (Core/Invention);

B32B27/06 C01B31/04 C08J3/00 (Core/Non-invention)

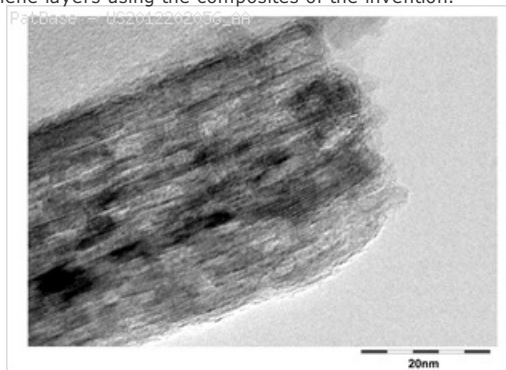
CPC: Y10T428/265 Y10T428/30 C08L33/20 B82Y40/00 B82Y30/00
C01B32/184 C01B2204/04 C01B32/182 C08K3/04

European: B82Y30/00 B82Y40/00 C01B31/04H2 M01B204/04

US: 423/448 423/448S 427/228 427/228S 428/336 428/336P 428/408
428/408S 428/446 428/446S 428/697 428/697S 977/734 977/734S
977/845 977/845S

JP F-Term: 4G146 4G146/AA01 4G146/AB07 4G146/AD17 4G146/AD20
4G146/AD22 4G146/BA16 4G146/BB10 4G146/BB22 4G146/BC03
4G146/BC07 4G146/BC23 4G146/BC32 4G146/BC33 4G146/BC34
4G146/BC37 4G146/BC41 4J002 4J002/BG10 4J002/DA02 4J002/DE28
4J002/DJ05 4J002/FD01 4J002/FD11 4J002/FD12 4J002/FD20

JP F-Index: C01B31/02/101/Z C01B32/05 C01B32/15 C01B32/184 C08K3/04 C08K3/26 C08K3/34 C08L33/20



Family:

Publication number	Publication date	Application number	Application date
CA2774906 AA	20110421	CA20102774906	20101011
CN102666691 A	20120912	CN201080043559	20101011
CN102666691 B	20140730	CN201080043559	20101011
DE102009049379 A1	20110421	DE200910049379	20091015
DE502010004407 D1	20131017	DE201050004407T	20101011
EP2488577 A1	20120822	EP20100771065	20101011
EP2488577 B1	20130814	EP20100771065	20101011
IN03191DN2012 A	20151009	IN2012DN03191	20120413
JP2013507500 T2	20130304	JP20120533599T	20101011
KR20120087909 A	20120807	KR20127007821	20101011
TH127016 A	20130911	TH20121001676	20101011
TW201127750 A	20110816	TW20100134999	20101014
US2012202056 AA	20120809	US20100498819	20101011
WO11045269 A1	20110421	WO2010EP65190	20101011

Priority:

DE200910049379 20091015 EP20100771065 20101011 WO2010EP65190 20101011

Probable Assignee: BAYER AG

Assignee(s): (std): BAYER IP GMBH ; BAYER TECHNOLOGY SERVICES ; BAYER TECHNOLOGY SERVICES GMBH ; WOLF AUREL ; MLECZKO LESLAW ; SCHLUETER OLIVER FELIX KARL ; LOLLI GIULIO

Assignee(s): COVESTRO DEUTSCHLAND AG ; BAYER AG ; BAYER INTELLECTUAL PROPERTY GMBH

Inventor(s): (std): WOLF AUREL ; MLECZKO LESLAW ; SCHLUETER OLIVER FELIX KARL ; LOLLI GIULIO ; OLIVER FELIX KARL SCHLUTER ; FELIX KARL SCHLUETER OLIVER ; GIULIO LOLLI ; AUREL WOLF ; LESLAW MLECZKO

Inventor(s): SCHLUETER, OLIVER FELIX-KARL

Agent(s): FETHERSTONHAUGH AND CO; LEVPAT; BIP PATENTS; SHIGEMORI KAZUKI; TSUBOKURA MICHIAKI; KANAYAMA MASATAKA; ONO MAKOTO; BAYER TECHNOLOGY SERVICES GMBH

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ 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 IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU 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

13) Family number: 49004957 (US2011127066A)

© PatBase

Title: HEAT STABILIZERS CONTAINING HYDROTALCITE PARTICLES WITH SPECIFIC ZETA POTENTIALS THAT DEMONSTRATE IMPROVED PROCESSING AND PERFORMANCE IN MOLDED VINYL COMPOUNDS

Abstract: Particulate solid heat stabilizer compositions for vinyl halide polymers are provided having about 30 percent to 90 percent by weight hydrotalcite particles represented by a sigmoidal curve on a cartesian coordinate plot of zeta potential (mV) versus pH. The curve has negative zeta potential values balanced against positive zeta potential values over a pH range and an inflection point between a pH of about 3 about 6 representing the isoelectric point (IEP) between said negative and positive zeta potential values. The stabilizer compositions are essentially free flowing, storage stable, and processable upon mixing components of the composition for blending with a vinyl halide polymer in effective amounts to confer heat stabilizing effectiveness upon said polymer.

Classifications:

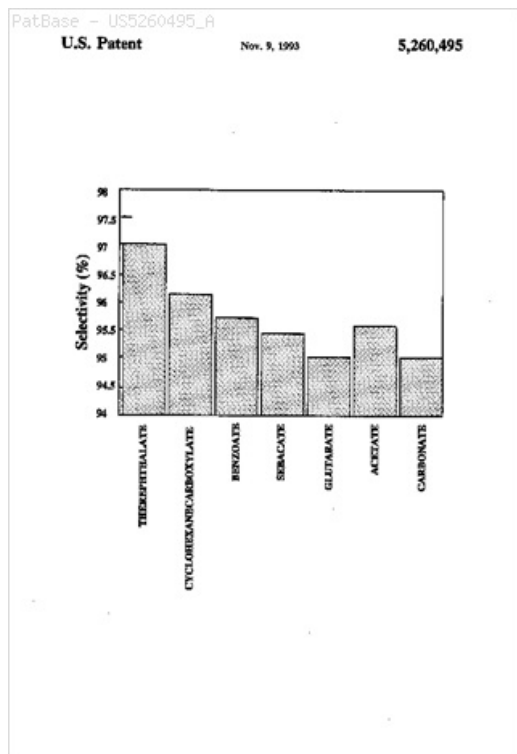
International (IPC 8-9): C08K5/00 C08K5/09 C09K3/00
H01B3/44 (Advanced/Invention)

CPC: C08K3/26 C08K9/04 H01B3/443

European: C08K3/26 C08K9/04 H01B3/44D

US: 174/110.00VP 174/110V 252/182.14 252/182.140S 524/301
524/301S 524/399

4H006/BA11 4H006/BA12 4H006/BA13 4H006/BA14 4H006/BA16
 4H006/BA19 4H006/BA20 4H006/BA21 4H006/BA25 4H006/BA26
 4H006/BA29 4H006/BA45 4H006/BA81 4H006/FE11 4H006/FG22 4H039
 4H039/CA60 4H039/CF90
JP F-Index: B01J31/04/Z C07B61/00/300 C07C31/20



Family:

Publication number	Publication date	Application number	Application date
AU199221169 A1	19930225	AU19920021169	19920820
AU660318 B2	19950622	AU19920021169	19920820
CA2076569 AA	19930224	CA19922076569	19920821
CA2076569 C	20010814	CA19922076569	19920821
CN1070848 A	19930414	CN19921010880	19920821
EP0529726 A1	19930303	EP19920202570	19920821
JP5200299 A2	19930810	JP19920245954	19920824
KR19930004240 A	19930322	KR19920015025	19920821
TW210331 B	19930801	TW19920107804	19921001
US5260495 A	19931109	US19920922002	19920804

Priority:

US19910749332 19910823 US19920922002 19920804

Probable Assignee: UNION CARBIDE CHEM PLASTIC

Assignee(s): (std): UNION CARBIDE CHEM PLASTIC

Assignee(s): UNION CARBIDE CHEMICALS AND PLASTICS TECHNOLOGY CO ; UNION CARBIDE CHEMICALS AND PLASTICS TECHNOLOGY CORP ; UNION CARBIDE CHEM AND PLAST TECHNOL CORP

Inventor(s): (std): FORKNER M W ; FORKNER MATTHEW W ; FORKNER MATTHEW WILLIAM ; MASHIYUU UIRIAMU FUOOKUNAA

Inventor(s): MATTHEW WILLIAM FORKNER ; MW FORKNER ; M W FORKNER

Agent(s): CALLINANS; FISHER ADAMS KELLY CALLINANS; SPRUSON AND FERGUSON

Designated states: BE DE ES FR GB IT NL

15) Family number: 48463170 (US2012248040A)

© PatBase

Title: INORGANIC ION EXCHANGE ADSORBENT FOR REMOVING TOXIC TRACE ELEMENTS FROM WATER

Abstract: The invention relates to an inorganic ion exchange adsorbent for removing toxic trace elements from water, comprising a sorbent comprising sol-gel generated double hydrous oxide of metal. In particular, for the metal a M2+ and M3+ (or M4+) metal is selected, preferably a metal from the group consisting of Al, Fe(III), Cr(III), Zr(IV), Fe(II), Zn, Mg, Mn(II), Co, Ni is selected. The invention further relates to a method of manufacturing an inorganic ion exchange adsorbent and a method of purifying water.

Classifications:

International (IPC 8-9): B01J20/04 B01J20/30 B01J41/02 B01J41/08
 C02F1/42 (Advanced/Invention)

CPC: B01J20/041 B01J20/06 B01J20/08 B01J41/02 B01J41/10 C02F1/281
 C02F1/288 C02F2001/422 C02F2101/103 C02F2101/108 C02F2101/12
 C02F2101/14

European: B01J20/04B B01J20/06 B01J20/08 B01J41/10 C02F1/28L
 L01J41/02 M02F1/28B M02F1/42B M02F101/10B M02F101/10E
 M02F101/12 M02F101/14

US: 210/660 252/184

Family:

Publication number	Publication date	Application number	Application date
EP2044992 A1	20090408	EP20070019288	20071001
EP2209543 A1	20100728	EP20080802738	20081001
WO09046918 A1	20090416	WO2008EP08325	20081001

Priority:

EP20070019288 20071001 EP20080802738 20081001 WO2008EP08325 20081001

Probable Assignee: SUED CHEMIE AG

Assignee(s): (std): KASPER CORNELIA ; RALLA KATHRIN ; RUF FRIEDRICH ; SCHEPER THOMAS ; SOHLING ULRICH ; SUCK KIRSTIN ; SUED CHEMIE AG

Inventor(s): (std): KASPER CORNELIA ; RUF FRIEDRICH ; SCHEPER THOMAS ; SOHLING ULRICH ; SUCK KIRSTIN ; SUCK KIRSTIN DR ; SOHLING ULRICH DR ; SCHEPER THOMAS DR ; RUF FRIEDRICH DR ; RALLA KATHRIN ; KASPER CORNELIA DR

Agent(s): WESTENDORP MICHAEL OLIVER ET AL; STOLMAR SCHEELE AND PARTNER; WESTENDORP MICHAEL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI 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 IS IT JP KE KG KM KN KP KR KZ LA LC LI 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

17) Family number: 8407170 (WO9322237A1)

© PatBase

Title: METHOD FOR PRODUCTION OF SYNTHETIC HYDROTALCITE

Abstract: Methods for producing synthetic hydrotalcite having a purity level of 99 percent or greater and an average particle size of less than 2 microns. According to one embodiment, a source of magnesium, a carbonate source and a source of aluminum are combined and reacted together under hydrothermal conditions. According to another embodiment in which the resulting product has an average particle size of less than 1 micron, a source of magnesium and a carbonate source are reacted together to form a hydromagnesite which is then reacted with a source of aluminum under hydrothermal conditions.

Classifications:

International (IPC 8-9): A61K33/08 C01F7/00 C08K3/26 (Advanced/Invention);
A61K33/06 C01F7/00 C08K3/00 (Core/Invention)

International (IPC 1-7): C01B31/24 C01F1/00 C01F5/24 C01F7/02

CPC: A61K33/08 C01F7/005 C01P2002/22 C01P2004/20 C01P2004/61 C08K3/26

European: A61K33/08 C01F7/00D2H C08K3/26 M01P2/22 M01P4/20 M01P4/61

Family:

Publication number	Publication date	Application number	Application date
AU199351558 A1	19931129	AU19930051558	19930427
WO9322237 A1	19931111	WO1993US03903	19930427

Priority:

US19920876316 19920430 WO1993US03903 19930427

Probable Assignee: HUBER CORP J M

Assignee(s): (std): HUBER CORP J M

Assignee(s): J M HUBER CORP ; JM HUBER CORP

Inventor(s): (std): ANDREWS CLAUDE R ; KOSIN JOHN A ; PRESTON BARRY W

Inventor(s): BARRY W PRESTON ; CLAUDE R ANDREWS ; JOHN A KOSIN

Designated states: AT AU BE CA CH DE DK ES FI FR GB GR IE IT JP LU MC NL NO PT SE