

[SS 25] grinding and cement and cellulose and fibres

Results in EPODOC 2

[SS 26] ..li



1/2 © EPODOC / EPO

- PN - [FR2483492](#) A1 19811204
- PNFP - FR2483492 B1 19831223
- PR - FI19800001756 19800530
- AP - FR19810010534 19810527
- DT - *; Rep
- CT - || STSE (A1)
[US2083961](#) A 19370615 [
] (ADOLPH NEW GUSTAVE);
[US2803575](#) A 19570820 [
] (RIDDELL WALLACE C, et al)
- CCI - [C04B28/14](#) ; [E04C2/043](#)
- CLC - [C04B28/14](#) , [C04B7/00](#) ,
[C04B14/08](#) , [C04B16/06](#) ,
[C04B18/08](#) , [C04B18/141](#) , INV
- [C04B28/14](#) , [C04B7/00](#) ,
[C04B14/16](#) , [C04B16/06](#) ,
[C04B18/08](#) , [C04B18/141](#) , INV
- [C04B28/14](#) , [C04B7/00](#) ,
[C04B14/202](#) , [C04B18/08](#) ,
[C04B18/141](#) , [C04B18/248](#) , INV
- [C04B28/14](#) , [C04B7/00](#) ,
[C04B14/28](#) , [C04B18/08](#) ,
[C04B18/141](#) , [C04B18/24](#) , INV
- [C04B28/14](#) , [C04B7/00](#) ,
[C04B14/06](#) , [C04B18/08](#) ,
[C04B18/141](#) , [C04B18/24](#) , INV
- CCA - [Y02W30/94](#) ; [Y02W30/97](#) ;
[Y02W30/92](#)
- PA - (A1 B1)
PARTEK AB [FI]
- AB - (A1)
The invention relates to a raw
board for building boards to be
prepared by the winding-up
process on a gypsum basis,
which contains ground **cellulose**
and/or waste paper **fibres** as wet

material support **fibres**, gypsum as a binder and hydraulic **cement** and additives as other constituents. Such a raw board is distinguished by the following composition: Gypsum in the form of $\text{CaSO}_4 \cdot \frac{1}{2} \text{H}_2\text{O}$ 30-85% Hydraulic **cement** 10-30% Blast furnace slag, fly ash maximum 50% Kieselguhr, perlite, vermiculite, limestone powder, sand or similar fillers maximum 50% **Cellulose** and/or waste paper **fibres**, degree of **grinding** 20-80 DEG SR maximum 3-30% Mineral **fibres**, glass **fibres**, glass, rock or slag wool or the like maximum 20% Organic **fibres** such as sisal, hemp, polymer **fibres** or the like maximum 20% Substances delaying the setting of the gypsum 0.1-2% Flocculating agents maximum 200 ppm.

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- PN - [DE4037639](#) A1 19910606
- PNFP - DE4037639 C2 19911024
- PR - DE19904037639 19901127; DE19893939606 19891201
- AP - DE19904037639 19901127
- DT - *; Rep
- CT - || STSE (A1)
[DE2235537](#) B2 19781130 []
- CCI - [B27N1/0209](#) ; [B28B1/525](#) ; [B28B17/02](#) ; [C04B28/02](#) ; [D21J3/00](#)
- CLC - [C04B28/02](#) , [C04B18/241](#) , [C04B20/026](#) , [C04B20/1088](#) , [C04B40/0028](#) , [C04B40/0071](#) , INV
- CCA - [Y02W30/97](#)
- PA - (A1)
SIEMPELKAMP GMBH & CO [DE]
- TI - (A1)
Shaped bodies - uses wet material for **grinding** into **fibres** for hydration of bonding agent in a lump-free mixture for moulding
- AB - (A1)
To produce shaped bodies, from a mixt. of raw **fibres** and a bonding agent, the raw material is wettened with the required amount of water for the hydration of the bonding agent and then reduced to **fibres** while wet. The raw fibre material and the bonding

agent are pref. ground together which reduces the material to **fibres** and mixes it with the bonding agent, or they are ground separately to be mixed in a further stage. The pref. raw fibre material is cuttings of paper and/or **cellulose**. The pref. bonding agent, activated by hydration, is plaster or **cement**. The raw material and water are mixed in equal volumes to give a lump-free mixt. of **fibres** and bonding agent, or excessive water is added. ADVANTAGE - The technique prevents the development of clumps in the mixture which would affect the quality of the shaped body.

[SS 26] grinding and cement and cellulose and fibre

Results in EPODOC 4

[SS 27] ..li



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PN - [RU2486150](#) C1 20130627

PR - RU20120101728 20120118

AP - RU20120101728 20120118

DT - I

CT - || STSE (C1)

[EP2256099](#) A2 20101201 [] (WEYERHAEUSER NR CO [US]);

[RU2160288](#) C2 20001210 [] (EH KHASHOGGI INDASTRIZ [US]);

[RU2006141688](#) A 20080610 [] ;

[US2010300330](#) A1 20101202 [] (HAMILTON ROBERT T [US], et al);

[US7993570](#) B2 20110809 [] (NAJI BASIL [AU], et al);

[US2008156225](#) A1 20080703 [] (BURY JEFFREY R [US])

PA - FEDERAL NOE G BJUDZHETNOE OBRAZOVATEL NOE UCHREZHDENIE VYSSHEGO PROFESSIONAL NOGO OBRAZOVANIJA KZ G [RU]; IZOTOV VLADIMIR SERGEEVICH [RU]

TI - **FIBRE-REINFORCED CEMENT MIXTURE**

AB - FIELD: chemistry.SUBSTANCE: invention relates to production of building materials and specifically large size thin-wall panels. The **fibre**-reinforced **cement** mixture contains portland **cement**, quartz sand, **cellulose fibre**, kaolin, polyacrylamide, polyphenyl ethoxysiloxane and water, with the following ratio of components, wt % per dry substance: portland **cement** - 19-23, quartz sand - 63.9992-68.99995, **cellulose fibre** - 5-6%, kaolin - 6-7, polyacrylamide - 0.00005-0.0001, polyphenyl ethoxysiloxane - 0.0007-0.0008, wherein the degree of **grinding** of the quartz sand is 210-310 m/kg, the degree of **grinding** of **cellulose fibre** is 30-35°SR and the degree of **grinding** of kaolin is 1300-1400 m/kg.EFFECT: high bending strength of the finished product while reducing consumption of portland **cement**.1 tbl

2/4 © EPODOC / EPO

PN - [GB443449](#) A 19360228

PR - CHX443449 19340607

AP - GB19340031377 19341101

DT - *

CCI - [D21H27/26](#) ; [D21J1/08](#)

PA - CHEM IND BASEL

TI - Manufacture of compressed sheet material having an opaque decorative surface

AB - 443,449. Compound sheet materials ; loading paper pulp. SOC. OF CHEMICAL INDUSTRY IN BASLE, Basle, Switzerland. Nov. 1, 1934, No. 31377. Convention date, June 7. [Classes 96 and 140] [See also Group XV] Compressed, composite sheet material having an opaque, decorated surface is obtained by decorating an opaque paper having incorporated therein pigment, e.g. 10-40 per cent by weight, sufficient to render the paper opaque in the finished product, impregnating the decorated paper with a binding agent and uniting with a support by hot pressing, preferably after drying. The paper may be made by incorporating the pigment, e.g. lithopone or zinc oxide, in the beater, and should not be strongly calendered. The paper, which may be coloured, is decorated with the desired design, lettering, &c. by drawing, painting, spraying, or printing. Binding-agents may include natural or artificial resins or **cellulose** derivatives, e.g. styrene resins, vinyl resins, shellac, **cellulose** nitrate or acetate, phenol or carbamide resins. Supports may include paper or fabric impregnated with resin, or wood, cork or artificial stone. In examples : (1) a decorated paper containing about 30 per cent lithopone is impregnated with carbamide-formaldehyde resin and after drying is made up into a pack with an unprinted impregnated paper and interposed sheets of cheap paper varnished with a similar resin, the whole being united by pressure and heat ; (2) a similar decorated paper is impregnated with a styrene resin and united to an asbestos- **cement** plate previously sprayed with the resin ; (3-5) products similar to that of example 2 are obtained employing **cellulose** acetate or phenol-formaldehyde, or by applying a paper sheet impregnated with shellac to an asbestos-**cement** plate coated with casein; (6) a decorated, opaque, paper sheet impregnated with carbamide-formaldehyde or styrene resin is united to a support of asbestos pasteboard, wood veneer and newspaper, or felted maize or sugar cane **fibre**, or is pressed on to a thick, sparingly-absorbent typewriting paper to furnish a sheet which may be glued to a suitable support. The paper for example 1 is prepared by **grinding** 100 kg. of lithopone, containing 60 per cent zinc sulphide, in a roller mill with 50 litres of water and introducing together with 200 kg. of alpha-**cellulose** into a beater, the formed paper being uncalendered or calendered only to a slight extent. The paper of example 6 is prepared by introducing 480 kg. bleached sulphite **cellulose** and adding, through a double filter, a suspension of 190 kg. lithopone in water.

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PN - [GB738688](#) A 19551019

PR - CHX738688 19520526

AP - GB19530012654 19530506

DT - *

CCI - [C04B28/02](#)

CLC - [C04B28/02](#) , [C04B14/04](#) , [C04B14/40](#) , [C04B20/0048](#) , [C04B40/0028](#) , INV

PA - HIMANIT AG

TI - Improvements in or relating to processes for the production of a mass of hardening structural material for the manufacture of tubes, plates or the like

AB - Hardening shaped members are produced by adding dry **cement** to a suspension of one

part of short-fibred chrysotile asbestos having a maximum **fibre** length of 0.5 mm. in at least 20 parts of water and added material, the proportion of the short-fibred asbestos being between 1.5 and 6.0 per cent by weight of the remaining dry ingredients. Long-fibred asbestos, mineral wool, slag wool, glass wool and **cellulose** may be added separately or in admixture. The suspension may be obtained by **grinding** chrysotile asbestos with 20-50 parts of water in ball mills or hollanders until a slimy mass is obtained, alternatively a heater may be used. The asbestos in the suspension preferably amounts to 2 to 6 per cent by weight of the dry mixture. In examples 90 Kgs. of **cement** are mixed with either 8 Kgs. long fibred, or medium fibred asbestos or slag wool, and 2 grams of finely ground asbestos added in 50 or 55 litres. In a further example 48.5 Kgs. of **cement** and 48.5 Kgs. of sand are mixed with 70 litres of suspension containing 1.5 Kgs. of very finely ground asbestos.)

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- DT - *; Rep
- CT - || STSE (A1)
[DE2235537](#) B2 19781130 []
- CCI - [B27N1/0209](#) ; [B28B1/525](#) ; [B28B17/02](#) ; [C04B28/02](#) ; [D21J3/00](#)
- CLC - [C04B28/02](#) , [C04B18/241](#) , [C04B20/026](#) , [C04B20/1088](#) , [C04B40/0028](#) , [C04B40/0071](#) ,
INV
- CCA - [Y02W30/97](#)
- PA - (A1)
SIEMPELKAMP GMBH & CO [DE]
- TI - (A1)
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