

7 Documents

Publication numbers	Title	Current assignees
WO201568704 A1	Fiber-reinforced carbonated hydraulic inorganic molded plate and method for producing same	DENKA, ...
WO201803612 A1	Fiber-reinforced carbonated cement molded product and method for producing same	KURARAY, ...
JP2008308547 A	Fiber-reinforced composite material having its inherent birefringence controlled	ASAHI KASEI
CA2606950 A1	Inorganic board and method for producing the same	NICHIHA
CA2616615 A1	Bearing wall board and a method of producing the same	NICHIHA
ZW9400028 A1	Hydraulically settable mixtures	E KHASHOGGI INDUSTRIES
JP2004026629 A	Carbonated hardened body and method of manufacturing the same	SEKISUI CHEMICAL

Fiber-reinforced carbonated hydraulic inorganic molded plate and method for producing same

WO201568704 A1

<u>Current assignees</u>	<u>IPC - International classification</u>		
DENKA	B28B-001/52	B28B-011/24	C04B
KURARAY*	C04B-007/02	C04B-016/02	C04B-016/06
KURASAWA KO DAGAKA	C04B-028/02*	C04B-028/04	C04B-040/02
<u>Inventors</u>	<u>CPC - Cooperative classification</u>		
HITOMI YOSHINORI	C04B-016/06/41*	C04B-028/02	C04B-028/02/5
INADA SHINYA	C04B-028/04	C04B-040/02/31	C04B-040/02/36
IWASAKI YOSHIHIRO	C04B-2111/00586	C04B-2111/0062	Y02W-030/97
NORITAKE HIROAKI			
HADA SABURO			
MORIOKA MINORU			
HIGUCHI TAKAYUKI			
SHOJI MAKOTO			
IRIUCHIJIMA KATSUAKI			
<u>Priority data including date</u>			
2013JP-0229661 2013-11-05			
2014JP-0201206 2014-09-30			
2014WO-JP79278 2014-11-04			
2016TH-1002541 2014-11-04			

<u>Family</u>					
WO2015068704	A1	2015-05-14	JPWO2015068704	A1	2017-03-09
IN201647019178	A	2016-08-31	BR112016009971	A1	2017-03-21
EP3067337	A1	2016-09-14	EP3067337	A4	2017-06-28
MX2016005719	A	2016-09-21	TH164106	A	2017-07-06
US2016289119	A1	2016-10-06	BR112016009971	A2	2017-08-01
VN49143	A	2016-10-25			

(EP3067337)

Provided is a fiber-reinforced carbonated hydraulic inorganic molded plate having a high bulk specific gravity, a high flexural strength, and a small dimensional change rate per specific gravity. (1) A fiber-reinforced carbonated hydraulic inorganic molded plate including: a cement component, a pulp, and a reinforcing fiber having an aspect ratio in a range of 40 to 1000; and being a carbonation-cured molded plate. (2) A molded plate being a cured product of a composition including at least a cement component, a pulp, and a reinforcing fiber, wherein the molded plate is a fiber-reinforced carbonated hydraulic inorganic molded plate and has a carbonation reaction rate of higher than or equal to 30%.

Fiber-reinforced carbonated cement molded product and method for producing same WO201803612 A1

Current assignees

DENKA
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Inventors

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MAEDA TAKUMI

Priority data including date

2016JP-0130326 2016-06-30

IPC - International classification

B28B-011/24	B28B-023/02	C04B-014/28
C04B-014/38	C04B-016/02	C04B-016/06
C04B-028/02*	C04B-040/02	

CPC - Cooperative classification

B28B-011/24*	B28B-023/02	C04B-014/28
C04B-014/38	C04B-016/02	C04B-016/06
C04B-028/02	C04B-040/02	

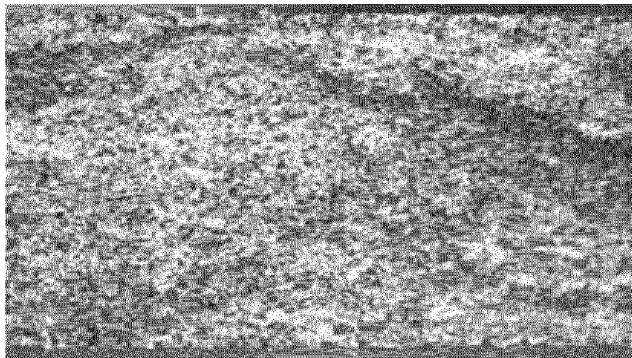
Family

WO2018003612 A1 2018-01-04

(WO201803612)

Provided is a fiber-reinforced carbonated cement molded product comprising a cement component, inorganic needles, and fibers, the inorganic needles each having a length of 1 mm or less and an aspect ratio of 20 or more.

[図1]



Fiber-reinforced composite material having its inherent birefringence controlled

JP2008308547 A

Current assignees

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Inventors

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Priority data including date

2007JP-0156396 2007-06-13

IPC - International classification

C08J-005/04* C08K-003/26 C08L-101/00

D04H-001/425

Family

JP2008308547

A 2008-12-25

JP5213362

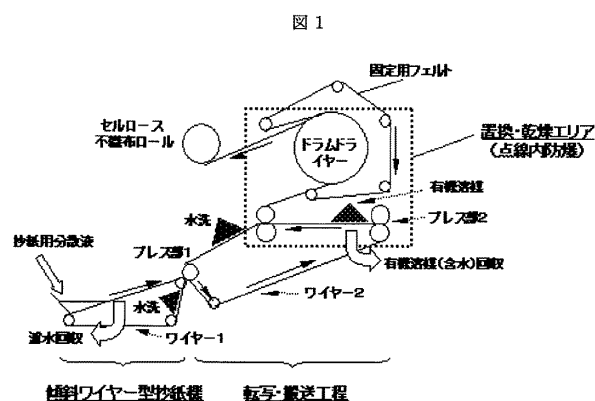
B2 2013-06-19

(JP5213362)

PROBLEM TO BE SOLVED: To provide a fiber-reinforced composite material that satisfies heat resistance, exhibits excellent transparency and has a small linear expansion coefficient and controlled optical anisotropy.

SOLUTION: The fiber-reinforced composite material comprises a nonwoven fabric composed of cellulose having its inherent birefringence controlled by addition of a fine metal carbonate salt having an inherent birefringence.

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Inorganic board and method for producing the same CA2606950 A1

<u>Current assignees</u> NICHIIHA* NITIKHA KO <u>Inventors</u> UKAI MASANORI <u>Priority data including date</u> 2006JP-0285427 2006-10-19	<u>IPC - International classification</u> B28B-001/52 B28B-003/00 B28C-007/02 B32B-013/02* B32B-037/14 C04B-014/16 C04B-014/38 C04B-016/02 C04B-016/06* C04B-018/24 C04B-018/26 C04B-024/04 C04B-024/08 C04B-028/00 C04B-028/02 C04B-030/02 C04B-111/27 E04C-002/04 <u>CPC - Cooperative classification</u> C04B-028/02* C04B-028/06 Y02W-030/97 Y10T-428/249925 Y10T-428/249926 Y10T-428/249928 Y10T-428/249932 <u>PCL - US patent classification</u> PCLO: 428292400* PCLX: 264171100 428292700 428293400 428294700
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<u>Family</u>					
CA2606950	A1	2008-04-19	RU2007136120	A	2009-04-10
KR20080035504	A	2008-04-23	KR100905402	B1	2009-06-30
JP2008100877	A	2008-05-01	RU2379244	C2	2010-01-20
CN101172827	A	2008-05-07	CN101172827	B	2011-06-15
TW200829407	A	2008-07-16	TWI408040	B	2013-09-11
US2008176057	A1	2008-07-24	CA2606950	C	2015-06-30

(US20080176057)

An object of the invention is to provide an inorganic board excellent in water absorption resistance, dimensional stability and/or frost damage resistance, and a method for producing the same. The inorganic board is produced through the following processes: preparing a slurry by dispersing a cement-based hydraulic material and a refined fiber reinforcing material into water, adding a saturated carboxylic acid to the slurry, and then the slurry is subjected to the steps of sheetmaking, dehydration, pressing and curing. The inorganic board comprising a refined fiber reinforcing material at 1-30 weight % based on the total solid content and a saturated carboxylic acid at 0.1-2.0% based on the total solid content.

測定后（24 小时后）重量（g）—初期重量（g）
0.2×0.2（框面积：m²）

Bearing wall board and a method of producing the same CA2616615 A1

Current assignees

HICHIHA
NICHIHA*
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Inventors

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Priority data including date

2007JP-0004212 2007-01-12

IPC - International classification

B28B-001/52	B28B-003/00	B32B-013/02*
C04B-014/02	C04B-014/16	C04B-014/18
C04B-014/38	C04B-016/02	C04B-016/06
C04B-018/24	C04B-024/04	C04B-024/08
C04B-028/00	C04B-028/02	E04B-002/56
E04C-002/00	E04C-002/06	E04C-002/26*
E04F-013/00		

CPC - Cooperative classification

C04B-028/02*	C04B-2111/2053	C04B-2111/27
C04B-2111/29	C04B-2111/40	E04C-002/06
Y02W-030/92	Y02W-030/94	Y02W-030/97
Y10T-428/249932		

PCL - US patent classification

PCLO: 428294700*
PCLX: 249013000

Family

CA2616615	A1	2008-07-12	KR100921164	B1	2009-10-13
CN101219878	A	2008-07-16	RU2372305	C2	2009-11-10
KR20080066602	A	2008-07-16	TWI357457	B	2012-02-01
TW200829767	A	2008-07-16	CN101219878	B	2012-10-10
JP2008169083	A	2008-07-24	JP5069911	B2	2012-11-07
US2008199677	A1	2008-08-21	CA2616615	C	2013-12-10
RU2007138879	A	2009-04-27			

(US20080199677)

The present invention provides a bearing wall with a low specific gravity of as low as 1.0 or less and a wall-magnification of 2.5 or more, which is excellent in strength, fire-safety, workability, dimensional stability, freezing resistance, water resistance and earthquake resistance, and a method for manufacturing the board. The board is produced by a method that contains the steps of: preparing a slurry by dispersing a cement-based hydraulic material, a fiber reinforcing material and a lightweight aggregate into water, adding a saturated carboxylic acid to the slurry, and then forming the slurry into a sheet, dehydrating the sheet, pressing the sheet and curing the sheet. The fiber reinforcing material includes a refined fiber with a freeness of 650 ml or less and an unrefined fiber and the saturated carboxylic acid is preferably a stearic acid-based carboxylic acid or a

{weight (g) after measuring (after 24 hours) – initial weight (g)}
0.2 × 0.2 (area in the frame: m²)

succinic acid-based carboxylic acid.

Hydraulically settable mixtures ZW9400028 A1

Current assignees

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ANDERSEN PER JUST
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Priority data including date

1993US-08019151 1993-02-17
1993US-08095662 1993-07-21
1993US-08101500 1993-08-03
1993US-08152354 1993-11-19
1994EP-0910770 1994-02-17
1994WO-US02111 1994-02-17

IPC - International classification

B01F-003/12	B05B-011/00*	B05C-001/08
B05C-003/18	B05C-005/02	B28B-001/00
B28B-001/52	B28B-003/00	B28B-003/02
B28B-003/12	B28B-003/20	B28B-003/26
B28B-007/42	B28B-011/00	B28B-011/04
B28B-013/02	B28B-013/06	B28B-021/00
B28B-023/00	B28C-007/02	B29C-043/00
B29C-043/02	B29C-043/06	B29C-043/08
B29C-043/22	B29C-043/24	B29C-043/34
B29C-043/36	B29C-043/38	B29C-043/46
B29C-045/00	B29C-049/00	B29C-049/04
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B29C-053/58	B29C-055/18	B29C-065/00
B29C-067/24	B29C-070/50	B29C-071/00
B31B-017/00	B32B-005/02	B32B-009/00
B32B-013/00	B32B-013/02	B32B-027/04
B32B-027/20	B32B-037/12	B32B-037/14
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B65D-065/46	C04B-016/02	C04B-020/00
C04B-024/00	C04B-026/00	C04B-026/02
C04B-026/28	C04B-028/00	C04B-028/02
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C04B-041/45	C04B-041/61	C08J-005/00*
C08J-005/18	C08L-001/28	C08L-003/00
C08L-003/02	C08L-005/02	C08L-005/12
C08L-005/14	C08L-089/06	C08L-097/02
E05D-001/02		

CPC - Cooperative classification

B05B-011/00/37	B05C-001/08/26	B05C-001/08/34
B05C-003/18	B05C-005/02/45	B28B-001/00
B28B-001/52	B28B-003/00	B28B-003/02
B28B-003/12/6	B28B-003/20	B28B-003/26/45
B28B-007/42	B28B-011/00	B28B-011/00/3
B28B-011/00/8	B28B-013/02/1	B28B-013/06
B28B-023/00	B28B-023/00/81	B28B-023/00/87
B28C-007/02	B29C-043/00	B29C-043/00/3
B29C-043/02	B29C-043/06	B29C-043/08
B29C-043/34	B29C-043/36	B29C-044/3402
B29C-045/00/13	B29C-047/00/19	B29C-047/00/21
B29C-047/00/23	B29C-047/00/26	B29C-047/00/33
B29C-047/00/38	B29C-047/00/4	B29C-047/00/42

	B29C-047/00/54	B29C-047/00/57	B29C-047/00/59
	B29C-047/00/61	B29C-047/00/66	B29C-047/02
	B29C-049/00/05	B29C-049/00/47	B29C-049/04
	B29C-049/06	B29C-049/06/3	B29C-051/00/2
	B29C-051/04	B29C-051/08	B29C-051/08/2
	B29C-051/10	B29C-053/06/3	B29C-053/58
	B29C-055/18	B29C-067/24	B29C-067/24/2
	B29C-067/24/3	B29C-070/50	B29C-071/00/09
	B29C-2043/3433	B29C-2043/3689	B29C-2043/463
	B29C-2043/464	B29C-2043/466	B29C-2043/5841
	B29C-2049/4608	B29C-2791/006	B29C-2795/007
	B29K-2001/00	B29K-2003/00	B29K-2005/00
	B29K-2089/00	B29K-2105/04	B29K-2105/12
	B29K-2105/16	B29L-2024/00	B29L-2031/608
	B29L-2031/712	B29L-2031/7132	B31B-050/32
	B31B-2105/00	B31B-2105/0022	B31B-2110/10
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	B65D-043/16/2	B65D-065/38	B65D-065/46/6
	B65D-2301/20	B65D-2565/385	C04B-016/02
	C04B-020/00/48	C04B-024/00	C04B-026/00
	C04B-026/02	C04B-026/02/6	C04B-026/28
	C04B-026/28/5	C04B-028/00	C04B-038/00/06
	C04B-038/02	C04B-040/00	C04B-040/00/28
	C04B-041/00/9	C04B-041/45	C04B-041/61*
	C04B-2111/00017	C04B-2111/00129	C04B-2111/00612
	C04B-2111/00948	C04B-2111/34	C08J-005/18
	C08J-2323/02	C08L-001/28	C08L-001/28/6
	C08L-003/00	C08L-003/02	C08L-005/02
	C08L-005/12	C08L-005/14	C08L-089/06
	C08L-097/02	E05D-001/02	E05Y-2900/602

Family

ZW2894	A1	1994-05-04	IL108671	B	1998-08-16
IL108671	A	1994-05-30	RU2143341	C1	1999-12-27
WO9419172	A1	1994-09-01	CN1250736	A	2000-04-19
CA2156050	A1	1994-09-01	EP1155794	A2	2001-11-21
AU6354494	A	1994-09-14	KR100309418	B1	2001-12-17
CN1099711	A	1995-03-08	EP0686082	B1	2002-09-04
BR9405730	A	1995-11-28	AT223297	T	2002-09-15
BRPI9405730	A1	1995-11-28	DE69431293	D1	2002-10-10
EP0686082	A1	1995-12-13	EP1155794	A3	2003-03-05
KR19960700880	A	1996-02-24	CN1403349	A	2003-03-19
KR19967000880	A	1996-02-24	DE69431293	T2	2003-04-30
JPH08507035	A	1996-07-30	BRPI9405730	B1	2003-11-11
TW312654	B	1997-08-11	CA2156050	C	2004-05-11
AU683249	B2	1997-11-06	CN1173861	C	2004-11-03

NZ263022

A 1997-11-24

CN1230362

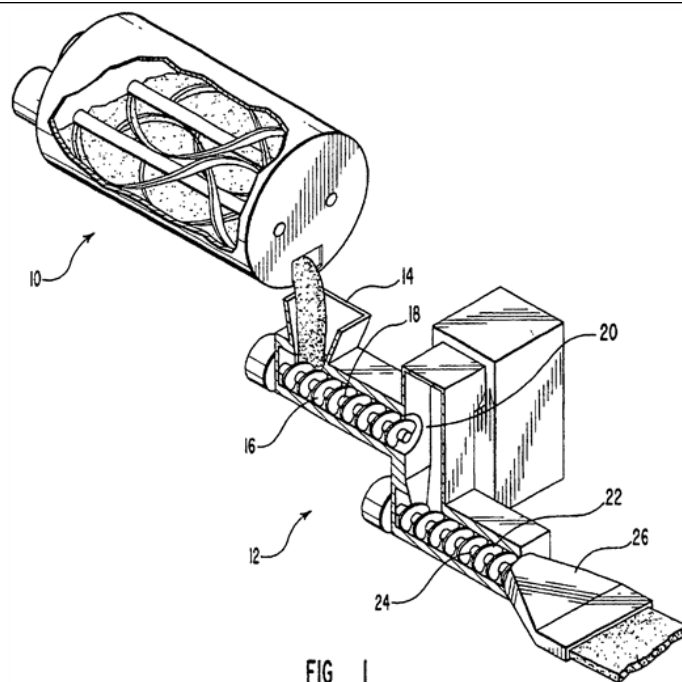
C 2005-12-07

EP0686082

A4 1998-04-01

(EP1155794)

Compositions, methods and system for manufacturing articles, including containers and packaging materials, from inorganically filled materials are disclosed. Suitable compositions are prepared by mixing together an organic binder, water, and appropriate additives (such as aggregates, fibers, and rheology-modifying agents) which impart predetermined properties so that an article formed therefrom has the desired performance criteria. The desired article can be molded from a sheet. The sheet forming processes require the mixture to first be fashioned into a sheet, such as by the use of an extruder or rollers, after which the sheet is formed into the desired article. Once the article is formed, it is hardened. Printed indicia and a coating can then be applied.



Carbonated hardened body and method of manufacturing the same JP2004026629 A

Current assignees

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Priority data including date

2002JP-0131640 2002-05-07

2003JP-0008626 2003-01-16

IPC - International classification

C04B-028/00

C04B-028/18*

C04B-040/02

C04B-111/20

Family

JP2004026629

A

2004-01-29

JP4320182

B2

2009-08-26

(JP4320182)

PROBLEM TO BE SOLVED: To provide an inorganic hardened body having excellent mechanical properties and structural stability and a method of manufacturing the inorganic hardened body in a short time under a low pressure carbonating environment.

SOLUTION: The carbonated hardened body consists of calcium silicate, calcium carbonate and amorphous silica, and the aspect ratio of calcium silicate which is coated with calcium silicate and/or calcium carbonate and amorphous silica is 10 to 25. The carbonated hardened body is obtained by mixing an inorganic material containing calcium silicate having the aspect ratio of 10 to 25 with water, shaping the mixture to form a shaped material having a density of 1.6 to 1.9, and carbonating and hardening the shaped material under 40 to 120°C atmosphere.

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