

1) Family number: 54525473 (US2014224152A)

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Title: MOLDING SAND FOR THREE DIMENSIONAL LAMINATE MOLDING

Abstract: According to the invention, by setting the linear thermal expansion amount when a mold made of a molding sand is heated from a room temperature to 1000 degrees centigrade to be not more than 0.9 percent, and the ratio (D/d) between the diameter of a slump (D) and the diameter of a slump cone (d) in a slump test of the molding sand having a hardening agent kneaded to be not less than 1.65, a molding sand preferable for use in a mold produced using the self-hardening type of three dimensional laminate molding sand mold, having low thermal expansibility preventing occurrence of a veining defect, and capable of forming a large and complicated shape can be obtained.

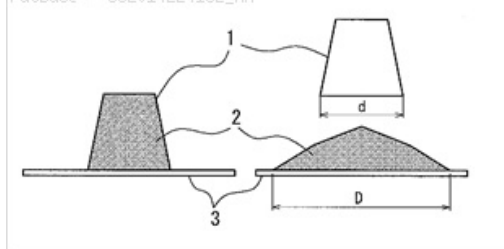
Classifications:

International (IPC 8-9): B22C1/00 B22C1/02 B22C1/10 B22C1/22 B22C9/02 B28B7/36 B33Y70/00 C04B35/66 (Advanced/Invention)

CPC: B22C1/10 B33Y70/00 B22C1/02 B22C1/22 B22C9/02

US: 106/38.2 264/670

PatBase - US2014224152_AA

**Family:**

Publication number	Publication date	Application number	Application date
■ CN104066532 A	20140924	CN201280068184	20120910
■ CN104066532 B	20170322	CN201280068184	20120910
■ EP2851142 A1	20150325	EP20120876702	20120910
■ EP2851142 A4	20150708	EP20120876702	20120910
■ JP2013240799 A2	20131205	JP20120113632	20120517
■ JP5249447 B1	20130731	JP20120113632	20120517
■ US2014224152 AA	20140814	US20120343893	20120910
■ US9796015 BB	20171024	US20120343893	20120910
■ WO13171921 A1	20131121	WO2012JP73760	20120910

Priority:

JP20120113632 20120517 WO2012JP73760 20120910

Probable Assignee: KIMURA CHUZOSHO CO LTD

Assignee(s): (std): KIMURA CHUZOSHO CO LTD ; TOMITA YUSUKE ; URUSHIBATA YUSUKE ; KOMAI TAKASHI ; KIMURA CHUZOSHO KK ; FUKUDA YOYA ; HAYASHI KENICHI

Assignee(s): KIMURA CHUZOSHO CO

Inventor(s): (std): FUKUDA YOYA ; HAYASHI KENICHI ; KOMAI TAKASHI ; TOMITA YUSUKE ; URUSHIBATA YUSUKE

Agent(s): COLOMBO STEFANO PAOLO; OSHA LIANG LLP; SUGIMURA KENJI

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 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 PA PE PG PH PL PT QA RO RS RU RW 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: 43430123 (US2009158970A)

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Title: CONCRETE COMPOSITIONS OPTIMIZED FOR HIGH WORKABILITY

Abstract: Concrete compositions have a fine-to-coarse aggregate ratio optimized for decreased viscosity and increased workability. The concrete compositions include at least water, cement, coarse aggregate, and fine aggregate and have a slump of at least 1 inch and a 28-day compressive strength of at least about 1500 psi. Workability is improved by minimizing the viscosity as a function of the aggregate content. To improve workability, the concrete compositions include between 45 percent and 65 percent fine aggregate and between 35 percent and 55 percent coarse aggregate as a function of total aggregate volume. For relatively low strength concrete (1500-4500 psi), the fine aggregate is 55-65 percent of the total aggregate volume. For medium strength concrete (4500-8000 psi), the fine aggregate is 50-60 percent of the total aggregate volume. For high strength concrete (>8000 psi), the fine aggregate is 45-55 percent of the total aggregate volume. Overall workability can be maintained or improved even if slump is decreased.

Classifications:

International (IPC 8-9): C04B14/00 C04B28/00 C04B28/02

C04B7/36 (Advanced/Invention);

C04B7/00 (Core/Invention);

C04B28/02 (Core/Non-invention)

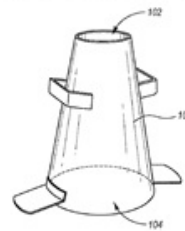
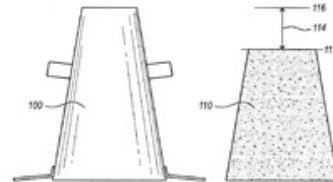
CPC: C04B20/0076 C04B2103/0079 C04B2103/0082 C04B2103/308

C04B28/02

European: C04B20/00H C04B28/02 M04B103/00W19

M04B103/00W21 M04B103/30S

US: 106/817

FIG. 1A
(Prior Art)FIG. 1B
(Prior Art)**Family:**

Publication number	Publication date	Application number	Application date
PA8769501 A1	20091216	PA20080087695	20080214
TW200934740 A	20090816	TW20080144643	20081119
US2009158970 AA	20090625	US20070961613	20071220
WO09085425 A1	20090709	WO2008US83751	20081117

Priority:

US20070961613 20071220

Probable Assignee: ICRETE LLC**Assignee(s):** (std): ANDERSEN PER JUST ; HODSON SIMON K ; ICRETE LLC**Assignee(s):** ICRETE LLCUS**Inventor(s):** (std): PER JUST ANDERSEN ; SIMON HODSON ; HODSON SIMON K ; ANDERSEN PER JUST**Agent(s):** PATENT DOCKET DEPARTMENT,ARMSTRONG TEASDALE LLP; PATENT DOCKET DEPARTMENT ARMSTRONG TEASDALE LLP; GOFF CHRISTOPHER M ET AL

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

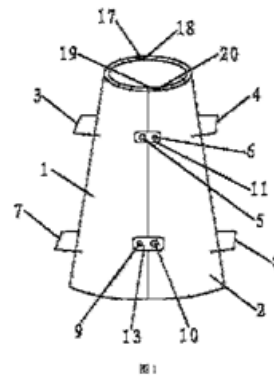
3) Family number: 57257959 (CN203798696U)

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Title: SLUMP CONE FOR TESTING SLUMP OF FILLED PASTE

Abstract: The utility model discloses a slump cone for testing the slump of filled paste. The slump cone for testing the slump of filled paste comprises a left half slump cone and a right half slump cone; the left half slump cylinder is connected with a left upper handle and a left lower handle; the right half slump cone is connected with a right upper handle and a right lower handle; the lower part of one side of the left half slump cone is hinged with a first lower fastening connecting element provided with a first threaded hole, and the upper part of the other side of the left half slump cone is hinged with a first upper fastening connecting element provided with a third threaded hole; the right half slump cone is provided with a second threaded hole and a fourth threaded hole; the upper part of one side of the right half slump cone is hinge with a second upper fastening connecting element provided with a fifth threaded hole; the lower part of the other side of the right half slump cone is hinged with a second lower fastening connecting element provided with a seventh threaded hole; the left half slump cone is provided with a sixth threaded hole and an eighth threaded hole; the left half slump cone and the right half slump cone are connected by a first bolt, a second bolt, a third bolt and a fourth bolt. The slump cone for testing the slump of filled paste, which is provided by the utility model, is high in testing precision, and is high in working efficiency.

Classifications:**International (IPC 8-9):** G01N11/00 (Advanced/Invention)

**Family:**

Publication number	Publication date	Application number	Application date
 CN203798696 U	20140827	CN201420145524U	20140327

Priority:

CN201420145524U 20140327

Probable Assignee: UNIV XI AN SCI AND TECHNOLOGY**Assignee(s):** (std): UNIV XI AN SCI AND TECHNOLOGY ; XI AN UNIV OF SCIENCE AND TECHNOLOGY**Inventor(s):** (std): LIU LANG**4) Family number: 28600727 (KR20020040476A)**

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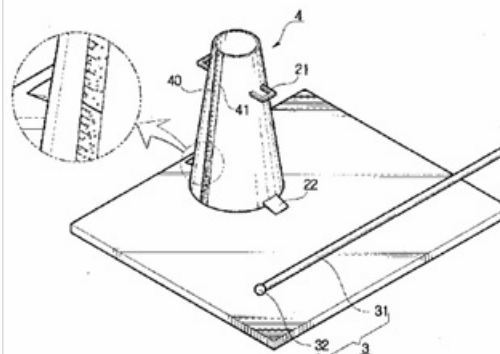
Title: SLUMP CONE FOR CONCRETE SLUMP TEST**Abstract:** PURPOSE: A slump cone for concrete slump test is provided to improve reliability of slump test for concrete.

CONSTITUTION: At least a longitudinal part of a slump cone(4) is formed by transparent material to be a transparent window(41). A scale(40) is longitudinally formed on the transparent window. The slump cone, cleaned by a wet floor cloth, is placed on a surface plate. The slump cone is supported and fixed by foot steps(22), formed on a lower part of the slump cone. Concrete is injected into the slump cone by fixed amount checked through the transparent window and hardened by hardening bar(3). The slump cone is vertically removed by using handles(21). Slump is measured by calculating difference between height of the slump cone and a specimen.

Classifications:**International (IPC 8-9):** G01B5/24 (Advanced/Invention);

G01B5/24 G01L5/00 (Advanced/Non-invention);

G01B5/24 (Core/Invention)

International (IPC 1-7): G01B5/24 G01L5/00**Family:**

Publication number	Publication date	Application number	Application date
KR20020040476 A	20020530	KR20000070533	20001124
KR200220962 Y1	20010416	KR20000032976U	20001124

Priority:

KR20000070533 20001124

Probable Assignee:

AN KWANG HYUN

Assignee(s): (std):

AN KWANG HYUN

Assignee(s):

AHN KWANG HYUN

Inventor(s): (std):

AN KWANG HYUN

5) Family number: 61210098 (CN105181527A)

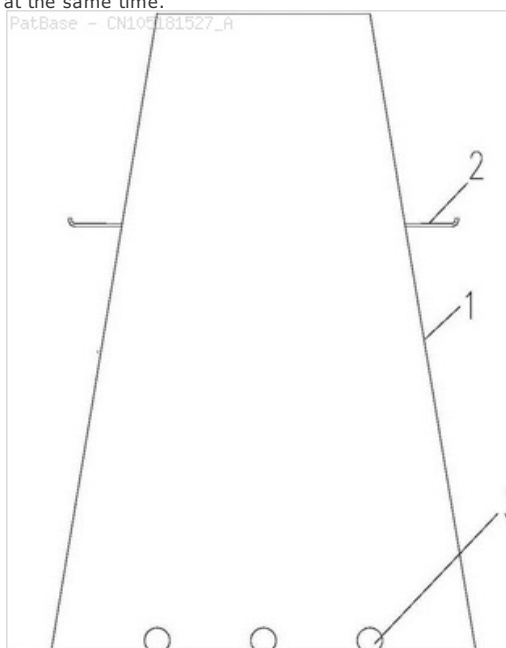
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Title: SLUMP CONE AND METHOD FOR TESTING WORKING PERFORMANCE OF SELF-COMPACTING CONCRETE

Abstract: A slump cone comprises a slump cone body and a reinforcing steel bar grid. The slump cone body is a big-end-down tower-shaped cylinder 1.5 mm thick. Handles are arranged on the two sides of the outer wall of the cylinder. The reinforcing steel bar grid is fixed to the bottom of the slump cone body. Reinforcing steel bars are ribbed reinforcing steel bars or plain round bars with diameter of 12 mm and clear spacing of 41 mm or 59 mm. A method for testing the working performance of self-compacting concrete through the slump cone includes the steps of adding a stirred self-compacting concrete mixture into the slump cone body, rapidly and vertically lifting the slump cone body to the position about 300 mm high, observing the state of concrete after the concrete passes through the reinforcing steel bar grid, evaluating the mobility through the expansion degree SF, evaluating the gap passing performance through completely-out-of-cylinder time TF and ovality delta, and evaluating the segregation resistance through the visual stability index method VSI. The slump cone is simple in structure and convenient and rapid to use; through a single test, the mobility, gap passing performance and segregation resistance of the self-compacting concrete can be tested at the same time.

Classifications:

International (IPC 8-9): G01N11/00 G01N21/84 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN105181527 A	20151223	CN201510600454	20150921
CN105181527 B	20180501	CN201510600454	20150921

Priority:

CN201510600454 20150921

Probable Assignee: UNIV YANSHAN

Assignee(s): (std): UNIV YANSHAN ; YANSHAN UNIV

Inventor(s): (std): ZHAO QINGXIN ; LI YALONG ; HE XIAOJUN ; FENG SHUO ; AN TONGLI

6) Family number: 10972785 (JP10206308A)

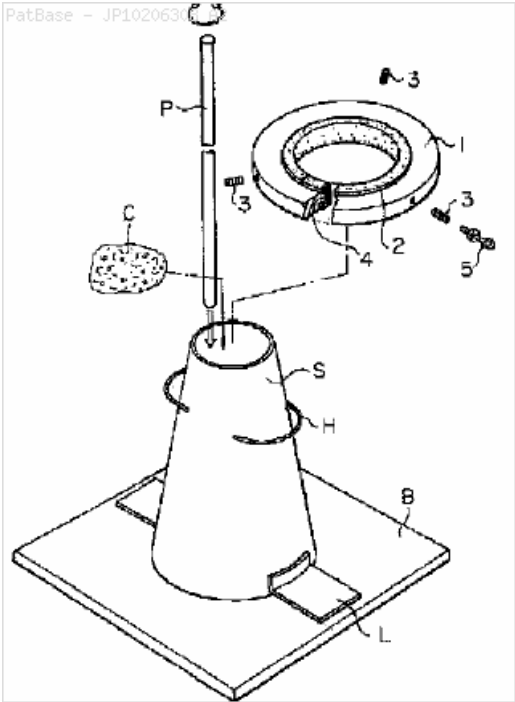
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Title: PRESSING-DOWN SUPPORT TOOL FOR SLUMP CONE FOR SLUMP TEST OF CONCRETE

Abstract: PROBLEM TO BE SOLVED: To maintain a vertical condition in a self-sustaining shape so that a slump cone in the case of performing a slump test to test and measure hardness, strength or the like in ready-mixed concrete, does not incline or fall even by weight and the other of ready-mixed concrete or the like inputted inside the slump cone. SOLUTION: A pressing-down support tool main body 1 formed in a doughnut shape having weight of not lighter than weight of a concrete C quantity inputted and stuffed in a slump cone S so as to be placed on a grip H brought into contact with it by surrounding an outer peripheral side surface or added to the outside in the slump cone S, is formed. In this pressing-down support tool main body 1, a cushion material 2 made of a soft elastic material is added to an inner peripheral side surface of this, or a constricting means 3 composed of a male screw bar to press and contact a fastening loop 4 whose tip edge is arranged so as to surround an outer peripheral side surface of the slump cone S or an outer peripheral side surface of the cushion material 2 by being screwed in from the outside direction of the pressing-down support tool main body 1 so as to be capable of freely advancing and retreating, is added, or a handle 5 is added.

Classifications:

International (IPC 8-9): B28C7/00 G01N11/00



Family:

Publication number	Publication date	Application number	Application date
JP10206308 A2	19980807	JP19970024301	19970123

Priority:

JP19970024301 19970123

Probable Assignee:	TAGAYA SANGYO KK
Assignee(s): (std):	TAGAYA SANGYO KK
Inventor(s): (std):	TAGAYA KANA

7) Family number: 55787960 (CN203432968U)

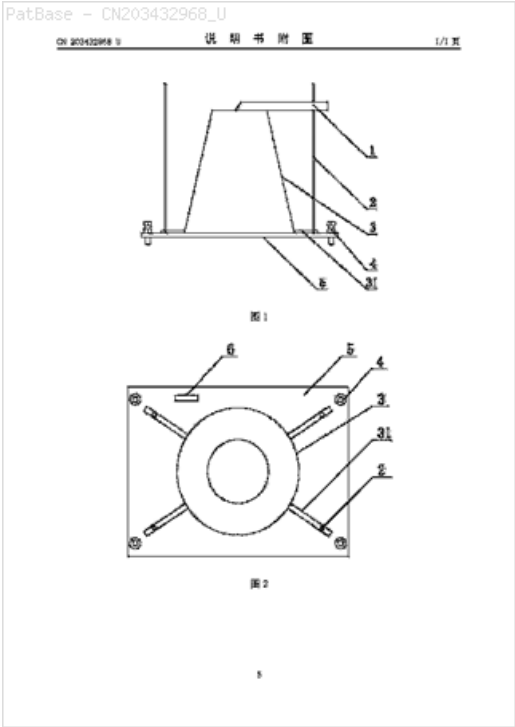
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Title: DETECTION DEVICE FOR CONCRETE SLUMPS

Abstract: The utility model provides a detection device and in particular relates to a detection device for concrete slumps. The detection device comprises a base plate, a slump cone, a leveling measurement device and a vertical measurement device, wherein the slump cone and the leveling measurement device are arranged above the base plate; the vertical measurement device is vertically arranged on the base plate. By using the detection device, the problems that leveling of the base plate is not set and the levelness of the base plate cannot be guaranteed in the concrete slump detecting process, the slump cone is not restrained when being lifted, the deviation-lifting phenomenon occurs during operation, the perpendicularity of the slump cone cannot be guaranteed and detection results are affected are solved.

Classifications:

International (IPC 8-9): G01N33/38 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
 CN203432968 U	20140212	CN201320404947U	20130708

Priority:

CN201320404947U 20130708

Probable Assignee: SHAANXI COAL CHEMICAL IND CONSTR GROUP CO LTD

Assignee(s): (std): SHAANXI COAL CHEMICAL IND CONSTR GROUP CO LTD ; SHAANXI COAL CHEMICAL IND CONSTRUCTION GROUP CO LTD

Assignee(s): SHAANXI COAL CHEMICAL IND CONSTRUCTION GROUP CO

Inventor(s): (std): CHEN HONGTAO ; CHEN JIANJUN ; LIN WEI ; QIAO JIANHUA ; ZHANG CHAOHUI ; ZHANG LIKUI

8) Family number: 47340611 (KR200260583Y)

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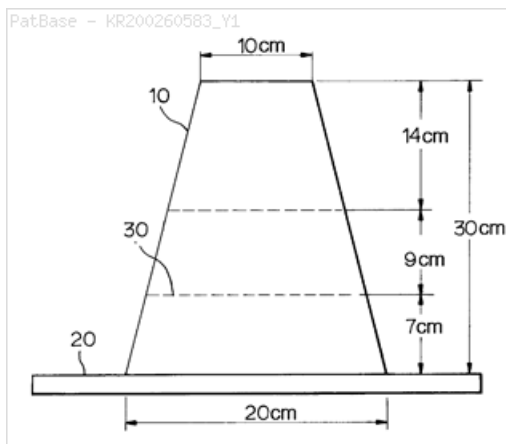
Title: Transparent slump cone testing (Machine translation)

Abstract: Source: KR200260583Y **Machine translation:** The present invention relates to a transparent, especially when pouring concrete slump test of the directness chewy dough or slump test to measure the metastability, the slump cone test, a polyurethane, a rigid plastic material-based or the like, and making transparently using a beacon on the outer surface of the slump test grid is formed in the circumferential direction, the amount of light entering the test cone to ensure concrete can be seen, the test time is testing accurately measured there is an effect that can improve the reliability of the device. Slump cone test

Classifications:

International (IPC 8-9): G01F23/02 (Advanced/Non-invention)

International (IPC 1-7): G01F23/02



Family:

Publication number	Publication date	Application number	Application date
 KR200260583 Y1	20020110	KR20010025062U	20010818

Priority:

KR20010025062U 20010818

Probable Assignee: IT S A COMPREHENSIVE ARCHITECTURE CO LTD

Assignee(s): IT S A COMPREHENSIVE ARCHITECTURE CO LTD

9) Family number: 30481116 (JP2004069364A)

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Title: COMPULSORY SLUMP FLOW TEST METHOD AND APPARATUS THEREFOR

Abstract: PROBLEM TO BE SOLVED: To provide a test method and a test apparatus for properly and efficiently evaluate the properties of quasi-high fluidity concrete or plastic fresh concrete. SOLUTION: A forced slump flow test apparatus 1 comprises a slump cone 2, a conical member 3 and a flat plate 4. The conical member 3 is placed in the slump cone 2 and a test is carried out in the same manner as a conventional slump flow test method to measure an expanse of a sample on the flat plate 4 as a compulsory slump flow value. The compulsory slump flow value becomes larger than a conventional slump flow value since the sample flows down on a conical face of the conical member. As a test method for evaluating the flowability of quasi-high fluidity concrete, the present test method can provide more sensitive evaluation than the conventional slump flow test method.

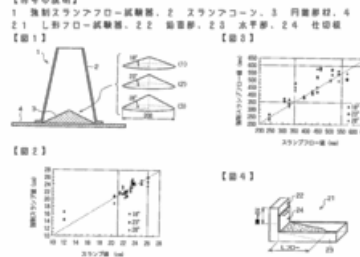
Classifications:

International (IPC 8-9): G01N11/00 G01N33/38 (Advanced/Invention);

G01N11/00 G01N33/38 (Core/Invention)

International (IPC 1-7): G01N11/00 G01N33/38

500±100mmとスランアフロー幅より広い範囲を与える。
 【0040】
 このとき、準高流動コンクリートの流動性評価試験として、従来のスランアフロー試験に比べ、強制スランアフロー試験により流動性評価が可能であり、その測定は適用範囲は500～800mm程度と増えらる。
 【0041】
 この実施結果において、強制スランアフロー試験により準高流動コンクリートや流動性のコンクリートの流動性、主として降伏値との関連においてワーナビリティの評価が可能であり、より正確に、より適正に与えらる。
 【0042】
 【発明の効果】
 本発明の試験方法、試験装置によれば、従来のスラン試験やスランアフロー試験では従来評価が困難であった準高流動コンクリートや流動性のコンクリートの主として降伏値との関連においてワーナビリティの評価を、円筒部材を用いた強制スランアフローの適用により、効率よく、より適正に与えらる。
 【図1】本発明に係る強制スランアフロー試験装置の一実施形態における前視図を、実験に用いた3種類の底角の円筒部材の形態を示す図である。
 【図2】実験結果におけるスランアフロー値と強制スランアフロー値との関係を示すグラフである。
 【図3】実験結果におけるスランアフロー値と強制スランアフロー値との関係を示すグラフである。
 【図4】従来のスランアフロー試験装置を示す前視図である。
 【符号の説明】
 1 強制スランアフロー試験機、2 スランアフロース、3 円筒部材、4 平板
 5 1 スランアフロー試験機、2 2 円筒部材、2 3 流平部、2 4 仕切板

**Family:**

Publication number	Publication date	Application number	Application date
JP2004069364 A2	20040304	JP20020226120	20020802

Priority:

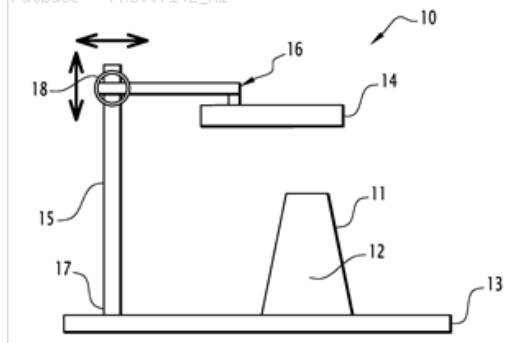
JP20020226120 20020802

Probable Assignee: NEWTECH KK**Assignee(s):** (std): NEWTECH KK**Inventor(s):** (std): SASAKURA HIROYUKI ; FUJIWARA HIROMI**10) Family number: 58130024** (FR3007142B)

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Title: SYSTEME DE CARACTERISATION D'UN MATERIAU DE CONSTRUCTION LIQUIDE NOTAMMENT D'UN BETON FLUIDE

Abstract: Source: FR3007142A [FR] Ce systeme de caracterisation (10) d'un materiau de construction liquide, notamment d'un beton fluide, par mise en œuvre d'un test d'etalement d'un echantillon de materiau (12) sur une plaque de test (13), du type comportant des moyens de prise de vues de l'etalement de cet echantillon lors de ce test et des moyens d'analyse de ces vues pour en extraire des caracteristiques de vitesse et d'amplitude d'etalement de cet echantillon, est caracterise en ce que les moyens de prise de vues et de traitement sont integres dans un outil (14) unique, mobile et portable et incorporant en plus des moyens d'affichage de donnees. **Machine translation:** This characterization system (10) of a liquid construction material, especially a fluid concrete, for implementation of a test of spreading a sample of material (12) on a test plate (13), of the type comprising shooting means the spreading of this sample during this test and means of analysis of these views to extract features of speed and amplitude spreading this sample, is characterized in that the means of shooting and processing are integrated into a tool (14) single, mobile and portable and incorporating more ways to display data.

Classifications:**International (IPC 8-9):** G01N33/38 (Advanced/Invention)**CPC:** G01N33/383 G01N11/02**Family:**

Publication number	Publication date	Application number	Application date
FR3007142 A1	20141219	FR20130055660	20130617
FR3007142 B1	20161111	FR20130055660	20130617

Priority:

FR20130055660 20130617

Probable Assignee: LAFARGE SA**Assignee(s):** (std): LAFARGE SA**Assignee(s):** LAFARGE

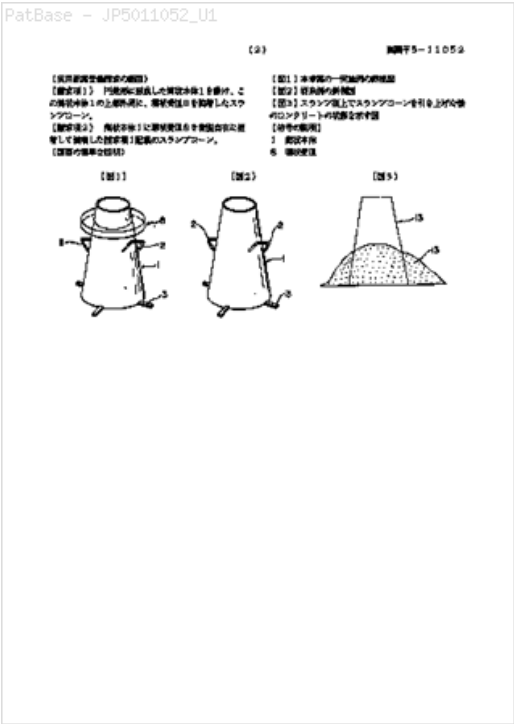
Inventor(s): (std): GEORGES SEBASTIEN ; JUGE CEDRIC ; ROY CEDRIC ; TOUSSAINT FABRICE
Inventor(s): CEDRIC JUGE ; CEDRIC ROY ; FABRICE TOUSSAINT ; SEBASTIEN GEORGES
Agent(s): LAFARGE; CABINET REGIMBEAU

11) Family number: 35895753 (JP5011052U)

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Title: Slump cone (Machine translation)

Classifications:
International (IPC 8-9): G01N11/00 (Advanced/Invention);
G01N11/00 (Core/Invention)
International (IPC 1-7): G01N11/00



Family:

Publication number	Publication date	Application number	Application date
JP5011052 U1	19930212	JP19910059134U	19910726

Priority:

JP19910059134U 19910726

Probable Assignee: MAEDA CONSTRUCTION

Assignee(s): (std): MAEDA CONSTRUCTION

Assignee(s): MAEDA CORP

12) Family number: 48426040 (TWM392958Y)

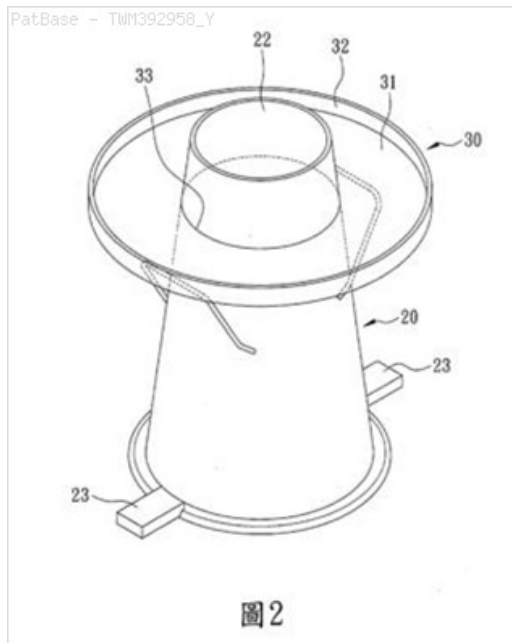
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Title: IMPROVED SLUMP CONE TOOL FOR IMPLEMENTATION OF FRESH CONCRETE

Abstract: Source: TWM392958Y

Machine translation: One kind improves Shi Zuoxin to mix the concrete collapsing awl tool, contains has an awl main body, drills in the main body interior to form spatially has one supplies newly to mix spatial which the concrete fills in, its characteristic lies in: One hanging, has an even base and one the outer wall department which extends upwardly by the even base circumference, as soon as the even base central committee place puts on is equipped with supplies the hole which the awl main body wrap enters, the even base and between the outer wall department limits forms has one supplies the attire to allow outward to overflow the concrete the splendid attire space, combination because of the above structure, may prevent mixes the concrete overflow to contaminate the trier shoe is newly the goal.

Classifications:
International (IPC 8-9): G01N1/28 (Advanced/Invention);
G01N1/28 (Core/Non-invention)

**Family:**

Publication number	Publication date	Application number	Application date
TWM392958 Y	20101121	TW20100212317U	20100629

Priority:

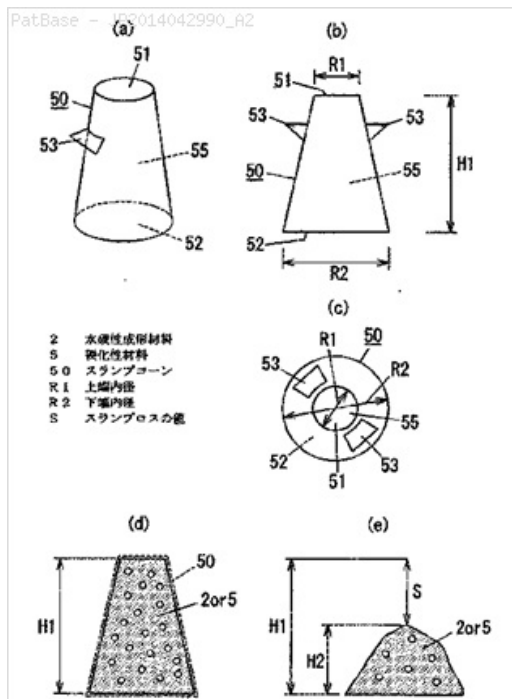
TW20100212317U 20100629

Probable Assignee: UNIV VANUNG**Assignee(s):** (std): UNIV VANUNG ; VANUNG UNIV**Assignee(s):** VANUNG UNIVERSITYTW**Inventor(s):** (std): SHEN GUO RUI ; YANG SHAO YANG ; ZHAN RONG JIAN**13) Family number: 56148043 (JP2014042990A)**

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Title: MANUFACTURING METHOD OF EXTRUDED CEMENT PLATE

Abstract: PROBLEM TO BE SOLVED: To provide a method for manufacturing an extruded cement plate of which strength and durability are hardly impaired, with an inexpensive material and simple equipment. SOLUTION: The method for manufacturing an extruded cement plate includes the steps of forming a molded object having a hollow hole by extrusion molding of a hydraulic molding composition and supplying curable material to the hollow hole. The hydraulic molding composition has a slump loss S of 5 mm or less measured by a slump test using a slump cone 50 having an inner diameter of the top end (R1) of 50 mm, an inner diameter of the bottom end (R2) of 100 mm, and a height (H1) of 150 mm. The curable material has a slump loss S of 50 to 130 mm measured by the slump test.

Classifications:**International (IPC 8-9):** B28B3/20 (Advanced/Invention)**Family:**

Publication number	Publication date	Application number	Application date
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Priority:

JP20120184905 20120824

Probable Assignee: KMEW CO LTD

Assignee(s): (std): KMEW CO LTD

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14) Family number: 67005482 (KR200236981Y)

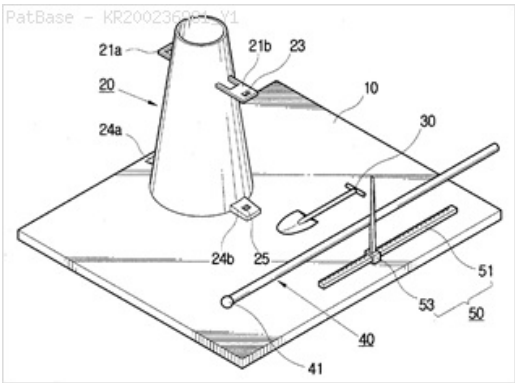
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Title: Concrete slump measuring device (Machine translation)

Abstract: Source: KR200236981Y **Machine translation:** For this design, the concrete slump measuring apparatus, test subject is seated on a platen for accommodating the concrete slump cone of the frustoconical shape is concrete slump test target; and a long rod-shaped to measure the height measuring member for the height measurement member; wherein said support supporting the vertically with respect to the is characterized in that it comprises a. In this way, the slump of the concrete concrete one to be able to improve the reliability of the measurement apparatus is provided for measuring the slump.

Classifications:

International (IPC 1-7): G01B5/00



Family:

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KR200236981 Y1	20011010	KR20010008754U	20010329

Priority:

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