

1) Family number: 31367057 (US2004232163A)

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Title: SYSTEM AND METHOD FOR DISPENSING PARTICULATE MATERIAL INTO A FLUID MEDIUM

Abstract: A device for dispensing particulate matter may include a gravimetric sensor to measure the weight of particulate matter mixed with a fluid carrier. In an illustrative embodiment, a dry chemical inductor includes a bin for containing particulate matter, a conduit for transporting a stream of liquid carrier, and a valve for controllably releasing a particulate matter from the bin into the conduit. The device may further include a gravimetric sensor, such as an electronic scale or a load cell, for measuring the weight of particulate matter released from the bin. A controller may receive signals from the gravimetric sensor and actuate the valve to interrupt the flow of particulate matter when the desired amount of particulate matter has been released.

Classifications:

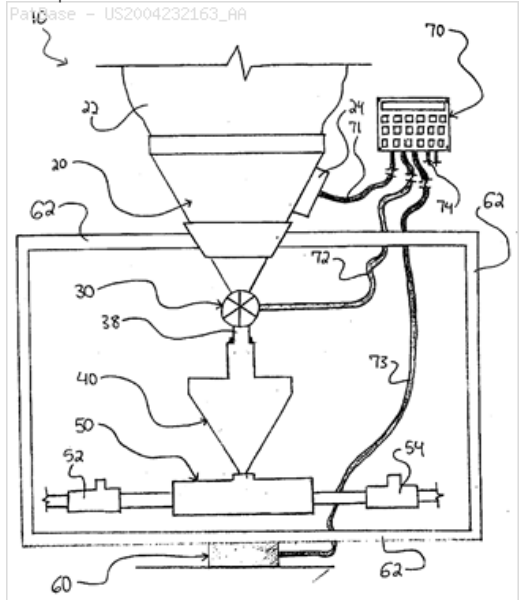
International (IPC 8-9): A01C23/00 A01M21/04 B01F3/12 B65B1/04 B65B1/30 B67D5/56 G01G11/00 G01G13/18 G01G19/38 G05B19/04 G05D11/00 G05D7/00 G05D9/00 (Advanced/Invention); B65B1/04 (Core/Invention)

International (IPC 1-7): A01C23/00 A01M21/04 B01F3/12 B67D5/56 G01F11/10 G01G11/00 G01G13/00 G01G19/38 G05B19/04 G05D11/00 G05D7/00 G05D9/00 G06F17/00

CPC: G01G13/18 G01G19/38 G01G23/3728 G01G23/3735 G05B2219/2214 G05B2219/25022

European: G01G13/18 G01G19/38 G01G23/37W G01G23/37W2 S05B219/2214 S05B219/25022

US: 141/100 141/192 141/198 141/83 222/368 222/368S 222/77 222/77P 700/231 700/231P



Family:

Publication number	Publication date	Application number	Application date
CA2432871 AA	20041123	CA20032432871	20030620
CA2444027 AA	20041123	CA20032444027	20031001
US2004232163 AA	20041125	US20030653022	20030829
US2005102058 AA	20050512	US20040852294	20040524
US7017624 BB	20060328	US20030653022	20030829
US7055559 BB	20060606	US20040852294	20040524

Priority:

US20030473376P 20030523 CA20032432871 20030620 US20030653022 20030829
CA20032444027 20031001 US20040852294 20040524

Probable Assignee: ROSEN S INC

Assignee(s): (std): PATHFINDER SYSTEMS INC ; ROSEN S INC

Assignee(s): ROSEN'S INC ; ROSEN'S INC ; REINSCH FRANK G ; BANK OF MONTREAL AGENT AS ; BANK OF MONTREAL AS AGENT ; LATTING JOHN A ; MIDTECH R AND D INC

Inventor(s): (std): REINSCH FRANK G ; LATTING JOHN A

Inventor(s): LATTING JOHN ; REINSCH FRANK

Agent(s): SMART AND BIGGAR; FISH AND RICHARDSON PC; FISH AND RICHARDSON PC PA

2) Family number: 30354060 (US4037630A)

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Title: MANUFACTURE OF BATTERY PLATES

Abstract: There is disclosed a method for preparing enveloped plates for batteries by introducing an active material composition containing liquids into the porous envelope of the plate, when the envelope is assembled on the current conducting element of the plate using an active material composition with a liquid content such that active material is filtered out by the porous envelope, and a bed of active material is built up in the envelope, the bed building up from the end remote from that at which the composition is introduced back to the end at which the composition is introduced, liquid issuing through the walls of the envelope throughout the period that the bed is being built up.

Classifications:

International (IPC 8-9): H01M10/38 H01M12/06 H01M4/02 H01M4/04 H01M4/12 H01M4/14 H01M4/16 H01M4/26 H01M4/28 H01M4/48 H01M4/50 H01M4/52 H01M4/56 H01M4/76 H01M6/04 (Advanced/Invention); H01M4/02 H01M4/36 H01M4/48 H01M4/50 H01M4/52 H01M4/56 H01M4/62 (Advanced/Non-invention); H01M12/00 H01M4/02 H01M4/04 H01M4/06 H01M4/14 H01M4/16 H01M4/26 H01M4/28 H01M4/48 H01M4/52 H01M4/70 H01M6/04 (Core/Invention); H01M4/02 H01M4/36 H01M4/48 H01M4/50 H01M4/52 H01M4/62 (Core/Non-invention)

International (IPC 1-7): B65B1/04 B65B3/04 D04H1/00 H01M10/28 H01M10/38 H01M12/06 H01M2/18 H01M4/04 H01M4/12 H01M4/14 H01M4/16 H01M4/20 H01M4/26 H01M4/28 H01M4/57 H01M4/68 H01M4/76 H01M4/80 H01M4/82 H01M6/04 H01M7/00

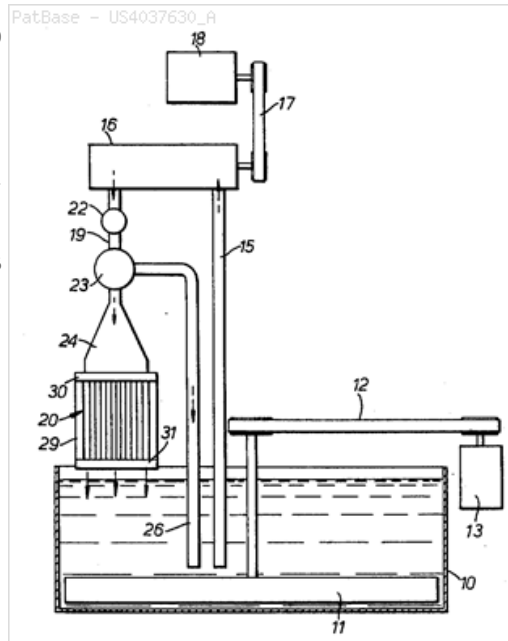
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European: H01M4/04G H01M4/04G4 H01M4/16 H01M4/26 H01M4/36K1 H01M4/48 H01M4/52 H01M4/56 H01M4/76 H01M4/76C H01M4/76C2 T01M300/00A2S T01M300/00A4 T01M4/02U1 T01M4/02U2 T01M4/48 T01M4/50 T01M4/52 T01M4/56 T01M4/62C2 T01M4/76 Y02E60/12 Y02E60/12D Y02E60/12F Y02E60/12H

US: 141/1.1 141/101 141/32 222/318 429/136 429/140 429/178 429/209 429/228 429/238

JP F-Term: 5H014 5H014/AA01 5H014/AA04 5H014/BB00 5H014/BB03 5H014/BB06 5H014/BB08 5H014/BB17 5H014/CC01 5H014/EE01 5H014/EE10 5H014/HH00 5H014/HH01 5H014/HH02 5H014/HH06 5H014/HH08 5H016 5H016/AA01 5H016/AA05 5H016/BB03 5H016/BB06 5H016/BB07 5H016/BB09 5H016/BB18 5H016/BB19 5H016/EE04 5H016/EE05 5H016/EE08 5H016/EE09 5H016/HH01 5H016/HH06 5H016/HH08 5H016/HH10 5H016/HH11 5H016/HH13 5H016/HH17 5H050 5H050/AA19 5H050/BA04 5H050/BA09 5H050/BA13 5H050/BA14 5H050/BA20 5H050/CA02 5H050/CA03 5H050/CA06 5H050/CA12 5H050/CA14 5H050/CB11 5H050/CB13 5H050/CB14 5H050/CB15 5H050/DA04 5H050/DA19 5H050/EA09 5H050/FA13 5H050/FA17 5H050/GA10 5H050/GA14 5H050/GA23 5H050/GA29 5H050/HA00 5H050/HA01 5H050/HA04 5H050/HA05 5H050/HA07 5H050/HA08 5H050/HA15 5H050/HA20 5H014/AA02 5H014/BB04 5H014/BB05 5H014/BB11 5H014/EE05 5H014/EE07 5H016/BB02 5H016/BB05 5H016/BB08 5H016/BB10 5H016/BB12 5H016/BB13 5H016/CC02 5H016/EE01 5H016/HH00 5H050/DA02 5H050/DA03 5H050/DA09 5H050/DA10 5H050/DA20 5H050/EA12 5H050/EA22 5H050/FA16 5H050/FA18 5H050/GA07 5H050/GA13 5H050/GA27 5H050/HA12

JP F-Index: H01M4/04/Z H01M4/04/101/Z H01M4/16/Z H01M4/02/Z H01M4/14/Z H01M4/26/Z



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Publication number	Publication date	Application number	Application date
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Priority:

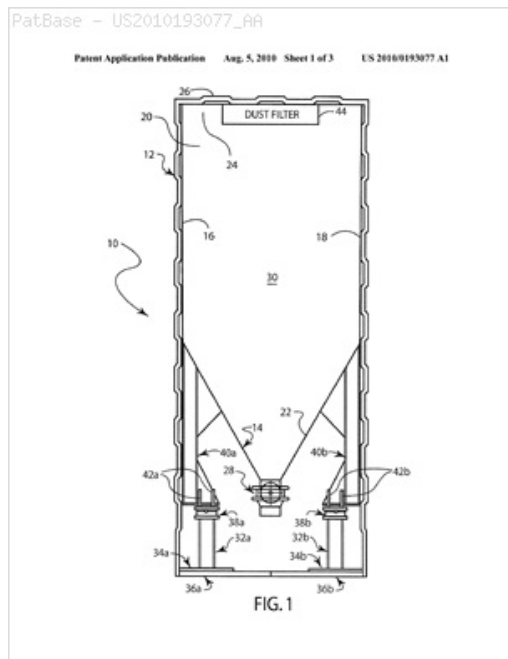
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Probable Assignee: AQUAD SALAH M**Assignee(s):** (std): AQUAD SALAH M ; AQUAD SALAH MOHAMMED**Inventor(s):** (std): AQUAD SALAH M ; AQUAD SALAH MOHAMMED**Agent(s):** WINSTON AND STRAWN LLP**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG 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 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**4) Family number: 46420382 (US2010193077A)**

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Title: CONTAINERIZED SILO

Abstract: A portable silo adapted for dispensing and metering flowable materials integrated into a shipping container is described. After shipping to a concrete pouring site or other mixing application, doors on one end of the container may be opened, leveling legs deployed, and the container righted to a vertical position, wherein the leveling legs are placed in contact with the ground, a pad or another supporting surface. Metering devices mounted on the legs are used to weigh the combination of the container, the silo and the flowable material. The silo may then be filled with a flowable material through a door in the container on the other end thereof from the doors utilized for accessing the leveling legs, or by a pneumatic filling tube attached thereto. A dust filter which may be disposed within the container during transit, may now be deployed on the outside of the container.

Classifications:**International (IPC 8-9):** B65B1/04 (Advanced/Invention);
B65B1/04 (Core/Invention)**CPC:** B65D88/121 B65D88/30 B65D88/54 B65D90/0033**European:** B65D88/12A B65D88/30 B65D88/54 B65D90/00D**US:** 141/350**Family:**

Publication number	Publication date	Application number	Application date
US2010193077 AA	20100805	US20090365007	20090203

Priority:

US20090365007 20090203

Probable Assignee: PEAK INNOVATIONS INC**Assignee(s):** (std): PEAK INNOVATIONS INC**Inventor(s):** (std): NELSON DREW R ; NELSON MARK E**Agent(s):** COCHRAN FREUND AND YOUNG LLC**5) Family number: 34511855 (US2007131707A)**

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Title: POWDER DISPENSER MODULES AND POWDER DISPENSING METHODS

Abstract: Powder dispensing and sensing apparatus and methods are provided. The powder dispensing and sensing apparatus includes a tray support structure to receive a cartridge tray holding cartridges, a powder dispenser assembly including powder dispenser modules to dispense powder into respective cartridges of a batch of cartridges in the cartridge tray, a powder transport system to deliver powder to the powder dispenser modules, a sensor module including sensor cells to sense respective fill states, such as the weights, of each of the cartridges in the batch of cartridges, and a control system to control the powder dispenser modules in response to the respective sensed fill states of each of the cartridges of the batch of cartridges.

Classifications:

International (IPC 8-9): B65B1/32 A61J3/00 A61J3/02 A61M11/00 A61M15/00 B01J4/00 B65B B65B1/04 B65B1/12 B65B1/16 B65B1/26 B65B1/30 B65B1/46 B65B3/26 B65B37/10 B65B37/16 B65B57/00 B65B57/14 B65D1/32 B67D5/30 B67D7/30 G01F23/20 G01G13/16 G01G13/24 G01G17/00 G01G21/23 G01G21/28 (Advanced/Invention); A61J3/02 A61M15/00 B65B1/30 B65B31/00 G01G17/00 G01G21/23 (Advanced/Non-invention); A61J3/00 A61M11/00 A61M15/00 B01J4/00 B65B1/30 B65B3/00 B67D7/08 (Core/Invention); B65B (Subclass/Invention)

International (IPC 1-7): B65B1/30

CPC: B65B1/12 B65B1/30 B65B1/32 B65B57/145 G01G13/24 G01G17/00 G01G21/23

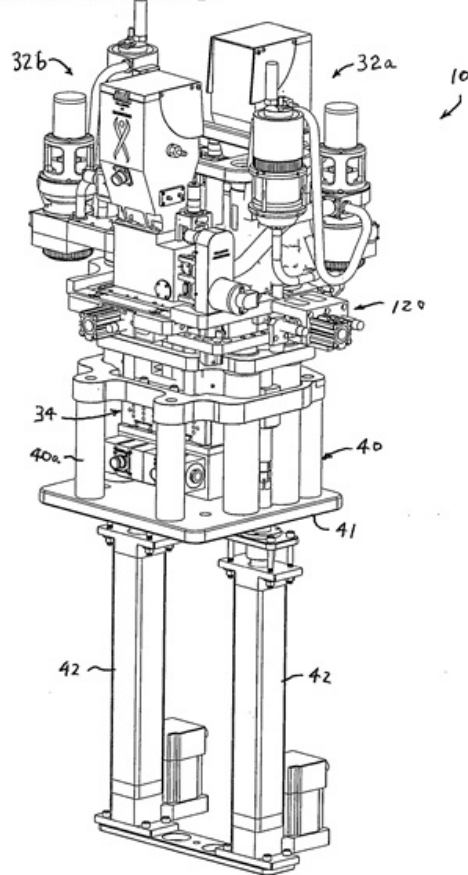
European: B65B1/12 B65B1/30 B65B1/32 B65B57/14F

US: 1/1 128/200.23 128/200.230S 141/1 141/12 141/18 141/1P 141/2 141/234 141/237 141/242 141/242S 141/244 141/256 141/44 141/67 141/67P 141/70 141/72 141/83 141/83P 141/83S 177/1 177/199 177/238 222/14 222/14P 222/412 73/296 73/296S

JP F-Term: 3E118 3E118/AA01 3E118/AB03 3E118/BA08 3E118/BB15 3E118/BB16 3E118/BB21 3E118/CA02 3E118/DA03 3E118/DA05 3E118/EA01 3E118/FA04 3E118/FA06 4G068 4G068/AA03 4G068/AB22 4G068/AC11 4G068/AD39 4G068/AE05 4G068/AF31 3E033 3E033/AA10 3E033/DD08 3E033/DE12 3E033/GA03 3E055 3E118/EA05 4C047 4C047/AA01 4C047/CC14 4C047/JJ03 4C047/JJ13 4C047/JJ15 4C047/JJ24 4C047/JJ31 3E055/AA05 3E055/BA06 3E055/BB01 3E055/CA05 3E055/EA01 3E055/EA08 3E055/EB05 3E055/FA10 3E118/AA02 3E118/BB13 3E118/DA04 3E118/EA06 4C103

JP F-Index: B01J4/00/105/D B65B1/32 A61J3/00/310/E B65B1/30/B B65B37/10 B65D1/30 B65D1/32 A61M15/00/Z B65B1/30/D

PatBase - US200731707_AA

**Family:**

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Probable Assignee: MANNKIND CORP

Assignee(s): (std): BONNEAU DAVID F ; FOG PER B ; MANNKIND COPORATION ; MANNKIND CORP ; POOLE TRENT A ; MANNKIND CORPORATION ; MEHNKAJND CORP

Assignee(s): MIDCAP FINANCIAL TRUST AGENT AS ; AVENTISUB LLC ; MEHNKAJND KORPOREJSHN ; HORIZON SANTE FLML SARL ; DEERFIELD PRIVATE DESIGN FUND II LP ; DEERFIELD PRIVATE DESIGN INT II LP

Inventor(s): (std): TRENT A POOLE ; DAVID F BONNEAU ; PER B FOG ; PUL TRENT A ; BONNO DEHVID F ; FOG PER B ; BONNEAU DAVID F ; POOLE TRENT A ; POOLE TRANT A ; FOG PER ; POOLE TRENT ; BONNEAU DAVID

Inventor(s): PER B ; DAVID F ; TRENT A ; TRENTA A POOLE

Agent(s): PIZZEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; SMART AND BIGGAR; HOFFMANN EITL; CHINA PATENT AGENT HK LTD; CLT PATENT AND TRADEMARK HK LTD; SANFORD TCOLB AND CO; SPRUSON AND FERGUSON ASIA PTE LTD; WOLF GREENFIELD AND SACKS PC; WOLF GREENFIELD AND SACK PC; WILLIAM R

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 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

6) Family number: 28439937 (WO03026969A1)

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Title: PACKAGING OF PARTICULATE MATERIALS

Abstract: A packaging machine for the controlled packing of particulate material into bags has an openable vacuum chamber (2), a vacuum pipe (11) connected to the chamber and to a vacuum source, means for delivering a bag (9) to adapter head (4) within the vacuum chamber (2), means (8) for clamping the bag (9) to the adapter head (4) so that the interior of the bag (9) is isolated from the rest of the chamber (2), the adapter head (4) having at least one fill pipe and at least one vent pipe (6). A weigh hopper (14) is positioned above the adapter head (4) and connectable to the fill pipe by means of collar (18) and isolating valves (16) and (17). In operation a bag (9) is clamped to the adapter head (4) by complementary clamps (8), the chamber is closed and vacuum is drawn on the chamber, at the same time the pressure within the bag (9) is controlled to keep a desired relative pressure with respect to the chamber (2). The weigh hopper (14) containing a pre-determined amount of powder is connected to the fill pipe, the valves (16) and (17) are opened and powder is pulled into the bag (9) by gravity and optionally the pressure differential between the atmospheric pressure in the hopper (14) and the vacuum in the bag (9). Valves (16) and (17) are closed. Any entrained air in the bag (9) is removed by suction via the vent pipe (6). The bag (9) is sealed within the vacuum chamber (2). The chamber (2) can be opened and the bag (9) expelled.

Classifications:

International (IPC 8-9): B65B31/02 B65B31/04

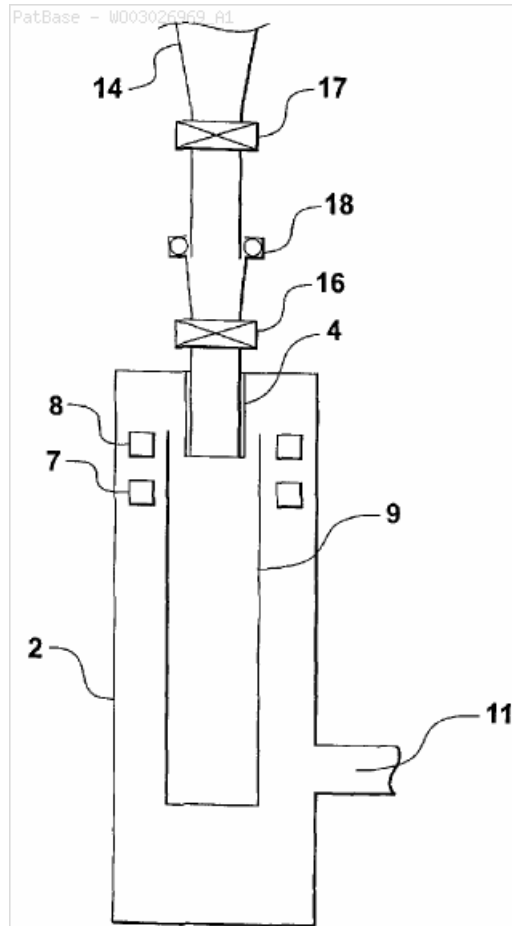
B65B39/08 (Advanced/Invention);

B65B31/02 B65B31/04 B65B39/00 (Core/Invention)

International (IPC 1-7): B65B1/04 B65B1/28 B65B31/00 B65B31/02 B65B31/04

CPC: B65B31/024 B65B31/041 B65B39/08

European: B65B31/02E B65B31/04B B65B39/08



Family:

Publication number	Publication date	Application number	Application date
AU2002100737 AD	20021212	AU20020100737	20020925
WO03026969 A1	20030403	WO2002NZ00191	20020924

Priority:

NZ20010514470 20010925 NZ20010514471 20010925 NZ20010514472 20010925

Probable Assignee: XERO LTD

Assignee(s): (std): AUCAMP DAVID ; BUCKLEY COLIN BRIAN ; LEANING SCOTT EDWARD ; XERO LTD

Assignee(s): XERO LIMITED

Inventor(s): (std): LEANING SCOTT EDWARD ; BUCKLEY COLIN BRIAN ; AUCAMP DAVID

Inventor(s): BUCKLEY COLIN BRIAN

Agent(s): PEGASUS IP; HODGKINSON MCINNES PATENTS; IP SOLVED ANZ PTY LTD

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