

Search history

Search 1: TAC=(hopper* and auger*) (Results 6024)
Search 2: TAC=(1) and PD<20141119 (Results 4651)
Search 3: TAC=(2 and screw) and PD<20141119 (Results 1467)
Search 4: TAC=(3 and thread*) (Results 120)
Search 5: TAC=(4 and taper*) (Results 25)

Title: Improvements in the manufacture of asbestos-cement pipes

Abstract: Source: GB551980A [Class 99 (ii)] [Also in Group V] The asbestos-cement mix is so extruded that substantially all of the fibres run lengthwise of the extruded pipe. This is effected by disposing blades 30 on a collar 31 fixed to and rotating with the extruding screw 11. The blades are inclined to the axis of rotation of the screw, at the same angle as the thread of the screw, and may be disposed either in front of the core-supporting spider 29 or, as shown, behind the spider. The core is stationarily mounted on a rod 36 fixed to the spider.

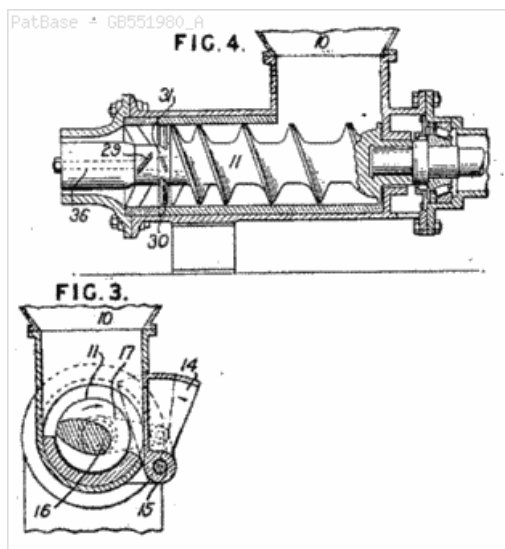
Classifications:

International (IPC 8-9): B28B21/52 (Advanced/Invention);
B28B21/00 (Core/Invention)

International (IPC 1-7): B28B1/52

CPC: B28B21/52

European: B28B21/52



Family:

Publication number	Publication date	Application number	Application date
GB551980 A	19430318	GB19410009048	19410717

Probable Assignee:

RUBEROID CO

Assignee(s): (std):

RUBEROID CO

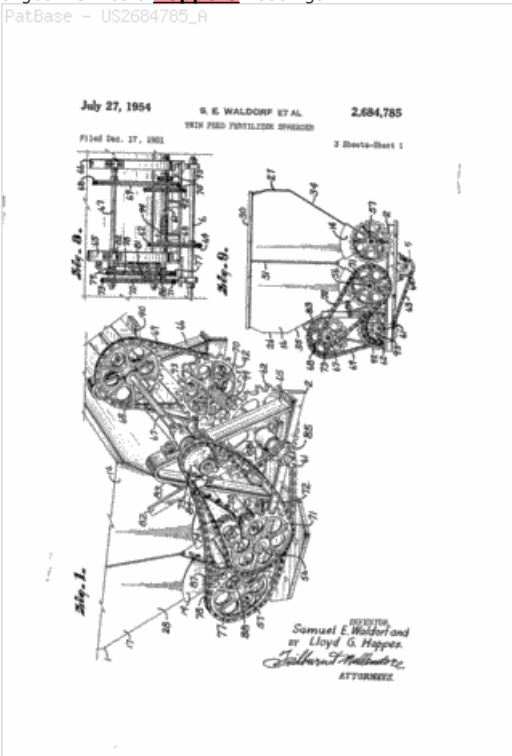
Assignee(s):

THE RUBEROID CO

Title: TWIN FEED FERTILIZER SPREADER

Abstract: Source: US2684785A 1, A fertilizer distributing apparatus comprisa pair of **hoppers** in side by side relation having downwardly **tapered** sides terminating in downwardly curved bottoms, said bottoms having a, plurality of longitudinally spaced openings, substantially cylindrical shaped housings extending longitudinally under the bottoms of said **hoppers** and in communication therewith through the openings in the bottoms of said **hoppers**, said housings having a plurality of longitudinally spaced openings in the bottoms thereof in staggered relation to the openings in the bottoms of the **hoppers**, shafts rotatably mounted in the **hoppers**, a plurality of oppositely **threaded auger screw** sections niounted on said shafts, the ends of each **auger screw** section terminating in substantially straight edges and one end of each section terminating over the openings in said **hoppers** and in staggered relation with each other, the opposite ends of said sections terminating substantially midway between said openings, the substantially straight edges of said sections being so arranged as to contact and crush lumps of material against the sides of said **hoppers**, shafts rotatably mounted in said housings below said **hoppers**, a plurality of oppositely **threaded auger screw** sections mounted on the shafts in said housings, the ends of each **auger screw** section terminating over the openings in said housings and in staggered relation with each other, and means for rotating the upper and lower **auger** sections in one **hopper** and housing independently of the other **hopper** and housing to thereby control the relative rates at which fertilizer is discharged from said **hoppers** housings.

Classifications:
International (IPC 8-9): A01C15/00 (Advanced/Invention);
A01C15/00 (Core/Invention)
International (IPC 1-7): A01C15/00
CPC: A01C15/00
European: A01C15/00
US: 222/134 222/142 222/238 222/274 222/330 222/412 222/624 239/675 241/276



Family:

Publication number	Publication date	Application number	Application date
US2684785 A	19540727	US19510262032	19511217

Priority:

US19510262032 19511217

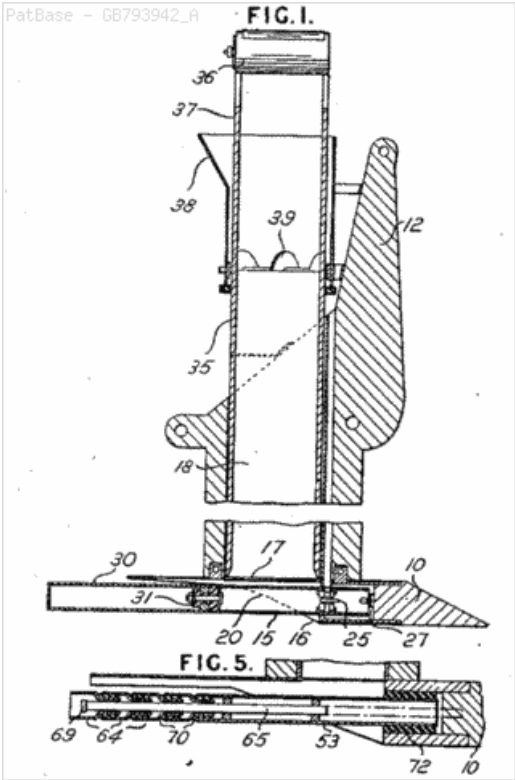
Probable Assignee: LESTER WILKINSON
Assignee(s): (std): LESTER WILKINSON
Inventor(s): (std): HOPPES LLOYD G ; WALDORF SAMUEL E

Title: Improvements relating to the construction of underground concrete pipes or land drains

Abstract: Source: GB793942A 793,942. Moulding pipes underground. NATIONAL RESEARCH DEVELOPMENT CORPORATION. May 3, 1955 [May 3, 1954, Dec. 30, 1954], Nos. 12810/54 and 37717/54. Class 20(2) An underground concrete pipe is moulded by a mole plough 10, towing a core 15, of smaller cross section, concrete being supplied through a conduit 18 and an aperture 17 in the top of a shroud 16 between which and the core the concrete pipe is moulded, the lower edge 20 of the shroud being oblique and inclined upwardly from front to rear and a vibrator 25 being mounted in the core 15. The plough is mounted on a tractor by a hollow coulter 12 through which extends the conduit 18. The vibrator 25 is an eccentric flywheel and the core 15 is secured at its leading end by a leaf spring 27 to the plough and tows behind it a second non-vibrating core 30 by a rubber connection 31. The concrete is fed from a hopper 38 by a screw conveyers 39 into the conduit 18, the sheath being vibrated by a vibrator 36 on legs 37. As the concrete supplied to the forward part of the orifice 17 forms the lower part of the pipe and that supplied to the after part forms the upper part of the pipe, the conduit 18 may be divided by a vertical partition into forward and after parts to which different kinds of concrete may be supplied to form a non-homogenous pipe with the upper part formed of a different kind of concrete to the lower, Fig. 3 (not shown). In this modification also a scraper plate is turned by the coulter which presses loose earth over the newly formed pipe. Water or liquid grout may be supplied at the after side of the lower end of the conduit 18. The core 15 and the shroud 16 may be extended aft of the aperture 17 and a former plate hinged inside the shroud and pressed down by a sponge rubber pad forms the top outer surface of the pipe. The core may be offset on the plough so as to form the upper part of the pipe thicker than the lower part. The non-vibrating core may be formed by a number of tubular sections 64, Fig. 8 the reduced forward ends of which are bonded by foam rubber sleeves 70 inside the adjacent sections. The sections are threaded on a rod 65 having a stop 69 which prevents escape of the sections. The vibrating core 53 may be mounted on the plough 10 by a rubber sleeve 72.

Classifications:

International (IPC 8-9): B28B21/06 E02D15/04 E02F5/10 E03F3/06 E21B33/13 E21B7/20 E21B7/26 F16L1/038 H02G1/06 (Advanced/Invention); B28B21/02 E02D15/00 E02F5/10 E03F3/00 E21B33/13 E21B7/00 E21B7/20 F16L1/028 H02G1/06 (Core/Invention)
International (IPC 1-7): E02D29/10 E02F5/10 E03F3/06 H02G1/06
CPC: B28B21/06 E02D15/04 E02F5/101 E21B7/20 E21B7/26 E21B33/13 H02G1/06
European: B28B21/06 E02D15/04 E02D29/10 E02F5/10A E21B33/13 E21B7/20 E21B7/26 H02G1/06



Family:

Publication number	Publication date	Application number	Application date
GB793942 A	19580423	GB19540012810	19540503

Priority:

GB19540012810 19540503

Probable Assignee: NAT RES DEV
Assignee(s): (std): NAT RES DEV
Assignee(s): NATIONAL RESEARCH DEVELOPMENT CORP
Inventor(s): (std): EDE AINSLEY NEVILLE

Title: Improvements in or relating to valves for the control of grain and like pulverulent materials fed from a **hopper**

Abstract: Source: GB813241A 813,241. Discharging a **hopper**. RANSOMES SIMS and JEFFERIES Ltd., and JARVIS, J. S. Nov. 30, 1955 [Sept. 7, 1954], No. 25922/54. Class 78 (1). A discharge valve for discharging grain from the **hopper** 2 of a grain varier comprises an oscillatory lever 14 which rocks a vane 13 about pivot 11, the angle of oscillation of the lever being adjustable at 19 to vary the rate at which grain is discharged from the **hopper** by the said vane. As shown, when the vane is at rest, the discharge slot 5 is self-blocking, the grain resting on trough 8. When the vane is rocked by connecting rod 15 the grain is discharged over the sides of the trough, the rate of discharge being governed by the length of lever 14 adjusted by nut-and-**screw** means 16-21 operated by thumbscrew 19. Alternatively, the adjustment may be made to the throw of the crank by nut- and-**screw** means 41-46 (not shown).

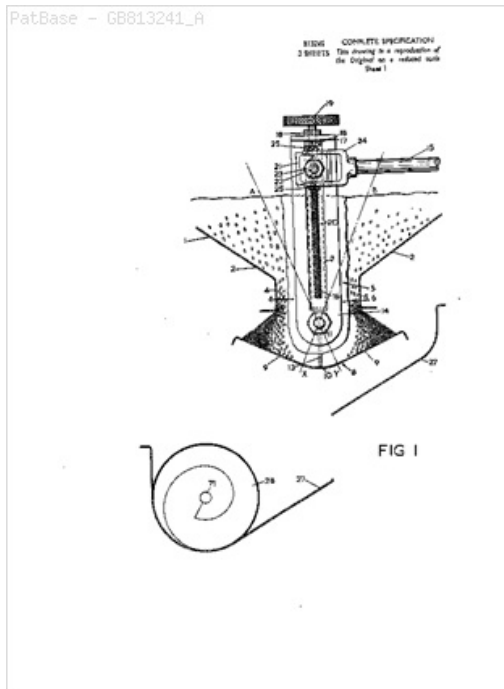
Classifications:

International (IPC 8-9): B65G65/44 (Advanced/Invention);
B65G65/00 (Core/Invention)

International (IPC 1-7): B65G65/34

CPC: B65G65/44

European: B65G65/44



Family:

Publication number	Publication date	Application number	Application date
GB813241 A	19590513	GB19540025922	19540907

Probable Assignee: RANSOMES SIMS AND JEFFERIES LTD

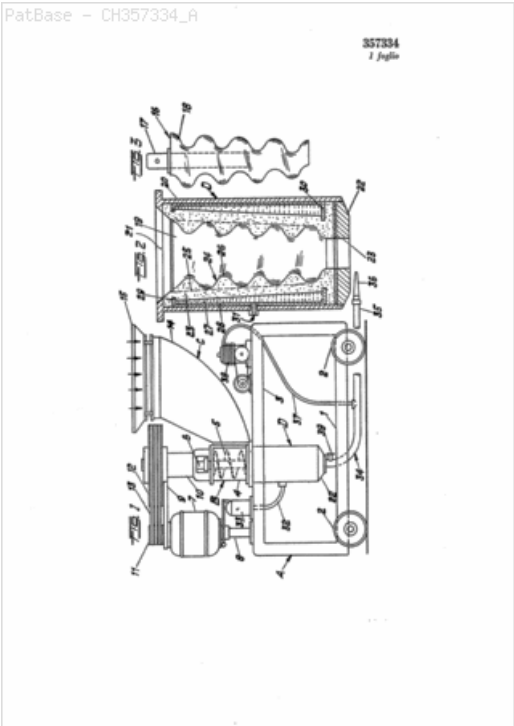
Assignee(s): (std): JOHN STEVENS JARVIS ; RANSOMES SIMS AND JEFFERIES LTD

Assignee(s): RANSOMES SIMS AND JEFFERIES LIMITED

Title: Macchina per il trasporto e la posa in opera di conglomerati di calcestruzzo, malte per murature di sottofondo e intonaci
MACHINE FOR TRANSPORTING AND LAYING OF CONCRETE MIXES, MORTARS FOR MASONRY AND PLASTER
MACCHINA PER IL TRASPORTO E LA POSA IN OPERA DI CONGLOMERATI DI CALCESTRUZZO, MALTE PER MURATURE DI SOTTOFONDO E INTONACI (Machine translation)

Abstract: Source: CH357334A [Source: Claim 1] 1. Macchina, secondo la rivendicazione, caratterizzata da cio che il dispositivo per il trasporto a pressione comprende una coclea verticale a profilo arrotondato ad uno o piu filetti, girevole in una relativa camera a pareti deformabili e suscettibile di regolazione, al fine di regolare la pressione esercitata sull'impasto.
[Source: Claim 1] 1. machine, according to claim, characterised by what the device for transport in pressure includes a vertical **Auger** rounded profile to one or more **threads**, can be turned into a corresponding room odourisation and susceptible to regulation, in order to adjust the pressure applied on the mixture.

Classifications:
International (IPC 8-9): B65G53/06 B65G53/32 E04F21/08 F04C2/107 (Advanced/Invention);
B65G53/00 B65G53/04 E04F21/02 F04C2/00 (Core/Invention)
CPC: B65G53/06 B65G53/32 E04F21/08 F04C2/1075 F04C2250/201
European: B65G53/06 B65G53/32 E04F21/08 F04C2/107B2 R04C250/201



Family:

Publication number	Publication date	Application number	Application date
CH357334 A	19610930		00000000

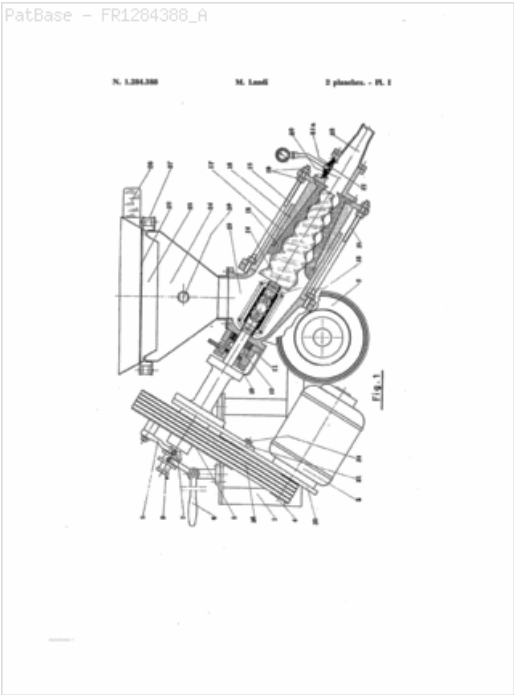
Probable Assignee: SCOTTI AMBROGIO
Assignee(s): (std): SCOTTI AMBROGIO
Inventor(s): (std): GUIDO DONI
Inventor(s): DONI GUIDO

Title: MACHINE POUR LE TRANSPORT SOUS PRESSION DE MORTIER, CIMENT OU PRODUITS SIMILAIRES MACHINE FOR TRANSPORT UNDER PRESSURE MORTAR, CEMENT AND SIMILAR PRODUCTS (Machine translation)

Abstract: Source: FR1284388A (Claim 1) 1) ****ATTENTION**** debut du champ CLMS peut contenir fin de DESC ******. La figure 3 represente, en elevation de face, le dispositif d'entrainement de la machine. La machine comprend un chassis 1, monte sur un essieu a deux roues 2 et portant un moteur 3, qu'une plaque d'assise 32 permet de faire pivoter sur une semelle fixe 31 du chassis de la machine. Par sa poulie 4 et des courroies 36, le moteur 3 entraine une poulie 5, qui est reunie, par un embrayage a friction, a l'arbre principal 9 de la machine. Le manchon conique 7 de l'accouplement est fixe sur un bras 8 de la poulie et peut etre actionne par un levier de manoeuvre 6, ce qui permet d'arreter la machine sans qu'il soit necessaire d'interrompre le fonctionnement du moteur 3. Le carter 23 de la machine est muni d'un entonnoir d'alimentation 24, sur l'ouverture duquel est dispose un tamis a secousses 25, assujetti par des supports elastiques 27 au bord de l'entonnoir. Le tamis presente un dispositif de secouage 26 et une goulotte 29 (fig).

Machine translation: (Claim 1) 1) **** WARNING **** start of CLMS field may contain end of DESC ******. Figure 3 shows, in front elevation, the drive device of the machine. The machine includes a chassis, mounted on an axle has two wheels 2 and 3 with a motor, a base plate 32 can rotate about a fixed sole 31 of the frame of the machine. 4 by its pulley and belt 36, the motor 3 causes a pulley 5, is attained by a friction clutch, a main shaft 9 of the machine. The tapered sleeve 7 of the coupling is fixed on an arm 8 of the pulley and can be actuated by an operating lever 6, which allows to stop the machine without the necessity to interrupt the operation of the engine 3. The housing 23 of the machine has a feed hopper 24, which is on the opening features a shaking sieve 25, secured by elastic supports 27 at the edge of the funnel. The sieve shaker presents a 26 and a chute 29 (Fig).

Classifications:
International (IPC 8-9): B65G53/08 B65G53/32 F04C2/107 (Advanced/Invention); B65G53/00 B65G53/04 F04C2/00 (Core/Invention)
International (IPC 1-7): F04B15/02 F04C1/06
CPC: B65G53/08 B65G53/32 F04C2/1073 F04C2250/201
European: B65G53/08 B65G53/32 F04C2/107B2 R04C250/201



Family:

Publication number	Publication date	Application number	Application date
FR1284388 A	19620209	FR19610856286	19610321

Priority:

FR19610856286 19610321

Inventor(s): (std): LANDI CESARE

Title: COTTONSEED-TREATING MACHINE

Abstract: Source: GB972854A 972,854. Treating seeds. BEN GUSTAFSON and SON MANUFACTURING CO. Jan. 23, 1961 [Sept. 22, 1960], No. 2645/61. Heading A2Q. [Also in Division B8] A machine for treating seeds, such as cotton seeds, with one or two liquid chemical agents comprises a frame 8, Figs. 1 and 2, a housing 9 having a vertical portion 9a and a **tapering** portion 9b leading to an outlet 9c, a conical or outwardly flaring seed distributor 21 rotatable, in the housing, about a vertical axis, means for feeding seeds downwardly on to the conical or flared upper surface of the distributor, a rotatable horizontal disc 38 for flinging a mist of a liquid agent, fed on to its upper serrated surface, on to the seeds as they are distributed in the housing and means including variable speed mechanism for rotating the distributor 21 at a desired speed, e.g. ranging between 20 and 350 R.P.M. and the disc 38 at a constant speed e.g. 2,000 R.P.M. Wipers 22, eg. of resilient wire, are attached to the distributor to clear the interior surface of the housing 9. The distributor 21 is secured to the lower portion of a hollow, vertical shaft 12 supported at its lower end on a ball-bearing 17 and rotated, about a fixed inner tube 14, by a chain 20 which engages a sprocket wheel 19 on the upper end of the shaft and a sprocket wheel 46 on the output countershaft 47 of variable speed mechanism, Fig. 3, controlled by a hand-wheel 60 and driven by a motor 41 mounted, on a bracket 42, on the frame 8. The disc 38 is secured to the lower end of a vertical shaft 39 passing through the tube 14 and bearings 36, 37 at the ends thereof, and carrying at its upper end, a pulley driven, by a belt 40, from a pulley on the output shaft of the said motor. An **auger** or **screw** conveyor 23, provided, peripherally, with downwardly inclined agitators 26 and outwardly and downwardly inclined agitators 27, is secured to the middle portion of the shaft 12 to break up any balls or lumps of seeds and propel the seeds from a surrounding funnel-shaped **hopper** 25, through its outlet opening 24 on to the distributor. The opening 24 is surrounded by a tubular collar 28 which can be raised away from or lowered towards the distributor, by mechanism comprising a link 29 pivoted, at 34, to the outside of the **hopper** and to a **threaded** block 31, a link 30 pivoted to this block and to a lever 35 supporting the collar, and a **screw** 32, which engages the **threads** in the block 31 and can be turned by a hand-wheel 33, to regulate the flow of seeds e.g. to a substantially single layer on to the distributor. The seeds are fed through a shoot 43 and metering mechanism, of the type described in U.S.A. Specification 2,823,904 and controlled by a counter-weight arm 44, into the **hopper** 25. Liquid agent is fed on to the disc 38 through metering mechanism, of the type described in the aforementioned U.S.A. Specification, or a modification thereof provided with a dual tank enabling two different liquid agents to be used alternatively, and through a pipe 45, Fig. 3, passing downwardly through the tube 14 and terminating in an outlet 45a. Pipes 61 and 62 are connected to suction devices to exhaust air, lint and dust respectively from the space surrounding the variable speed mechanism (Fig. 5 not shown) and the housing 9.

Classifications:

International (IPC 8-9): A01C1/00 (Advanced/Invention);

A01C1/00 (Core/Invention)

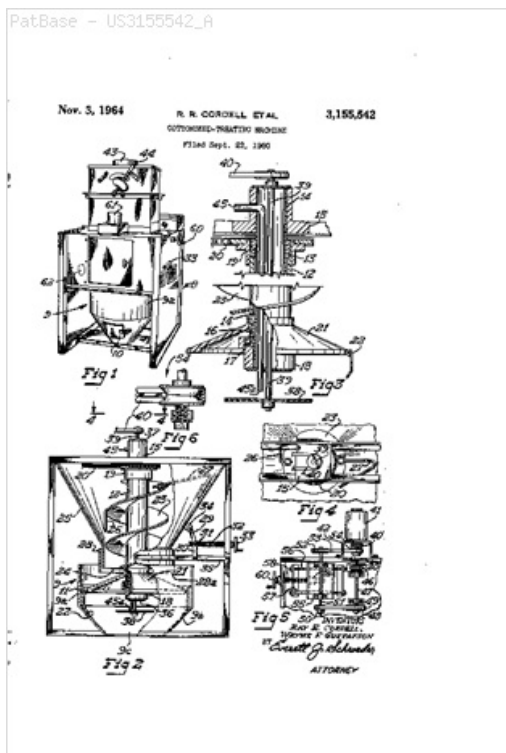
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CPC: Y10S47/09 A01C1/00

European: A01C1/00

US: 118/303 19/41 239/214 239/224 366/195 366/319 414/287

414/291 47/DIG.9 99/519 99/534 99/571



Family:

Publication number	Publication date	Application number	Application date
GB972854 A	19641021	GB19610002645	19610123
US3155542 A	19641103	US19600057810	19600922

Priority:

US19600057810 19600922

Probable Assignee: BEN GUSTASON AND SON MFG CO

Assignee(s): (std): BEN GUSTAFSON AND SON MFG CO ; BEN GUSTASON AND SON MFG CO ; BEN GUSTASON AND SON MFG COMPANY

Assignee(s): BEN GUSTASON AND SON MANUFACTURING COMPANY ; BEN GUSTAFSON AND SON MANUFACTURING CO

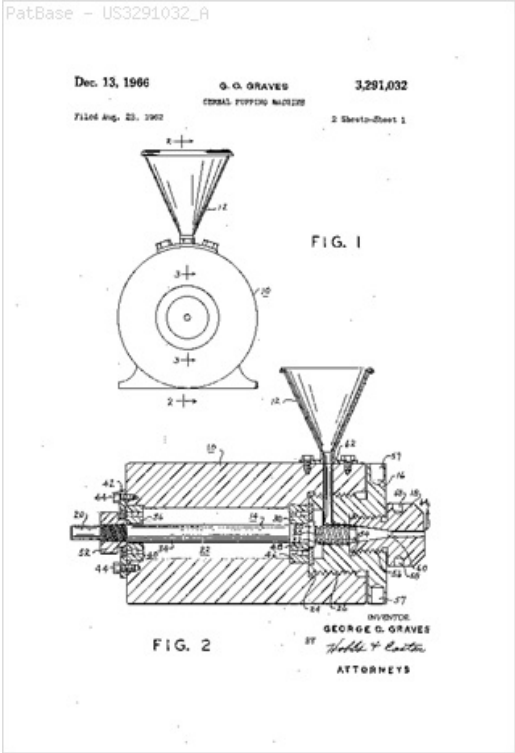
Inventor(s): (std): GUSTAFSON WAYNE F ; CORDELL RAY R

Title: CEREAL PUFFING MACHINE

Abstract: Source: GB1028579A 1,028,579. Puffing cereal products. G. O. GRAVES. July 31, 1963 [Aug. 22, 1962], No. 30436/63. Heading A2Q. A machine for producing a puffed cereal product from a water-moistened cereal meal, such as maize or rice meal, comprises a body 10, Fig. 2, provided with a chamber 32, e.g. in a stator 16, leading into a single extrusion passage 60 through an extrusion head 18, which extrusion passage comprises one or more than one conical inlet portion 76, Figs 7 and 8, leading into a conical portion 86, the smaller end of each portion 76 being smaller than the adjacent larger end of the portion 86. The machine also comprises a passage 62, through which the moistened meal is fed into the chamber 32, e.g. from a **hopper** 12, and a rotatable **screw** or **auger** 30 for forcing the meal through the chamber 32 and the extrusion passage 60, at a pressure high enough to heat the meal, vaporise its moisture and gelatinize starch therein, thus baking the meal. The extruded meal emerging from the passage 60 becomes puffed and solidified and it is then cut into fingers, sticks or collets by a knife 64. Alternative forms of the extrusion passage are described with reference to Figs. 3, 4, 5 and 6 (not shown).

Classifications:

International (IPC 8-9): A23L1/10 A23L1/18 A47J37/12 B30B11/22 (Advanced/Invention); A23L1/18 A47J37/12 B30B11/22 (Core/Invention)
International (IPC 1-7): A23L1/18
CPC: A23L7/17 B30B11/221 A47J37/1271
European: A23L1/18B2 A47J37/12L B30B11/22B
US: 425/191 425/198 425/206 425/308 425/394 99/323.4



Family:

Publication number	Publication date	Application number	Application date
AU3414663 A1	19650218	AU19630034146	19630813
GB1028579 A	19660504	GB19630030436	19630731
US3291032 A	19661213	US19620218613	19620822

Priority:

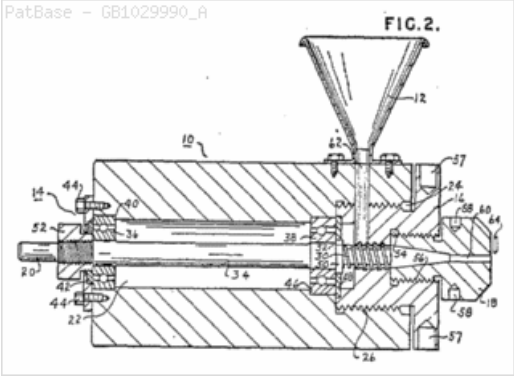
US19620218613 19620822

Probable Assignee: GEORGE OLIVER GRAVES
Assignee(s): (std): GEORGE OLIVER GRAVES ; GRAVES GEORGE O
Assignee(s): GEORGE O GRAVES
Inventor(s): (std): GRAVES GEORGE O
Inventor(s): GEORGE O GRAVES

Title: CEREAL PROCESSING MACHINE

Abstract: Source: GB1029990A 1,029,990. Puffing cereal products. G. O. GRAVES. July 31, 1963 [Aug. 22, 1962], No. 30435/63. Heading A2Q. A machine for producing a puffed cereal product from water-moistened cereal meal, such as maize or rice meal, comprises a body 10, Fig. 2, provided with a chamber 32, e.g. in a stator 16, leading into a single extrusion passage 60 through an extrusion head 18, a passage 62 through which the moistened meal is fed into the chamber 32, e.g. from a **hopper** 12, and a rotatable **screw** or **auger** 30 for forcing the meal through the chamber 32 and the extrusion passage 60, at a pressure high enough to heat the meal, vaporize its moisture and gelatinize starch therein, thus baking the meal. The extruded meal becomes puffed and solidified as it emerges from the passage 60, and it is then cut, e.g. into fingers or collets, by a knife 64. Alternative forms of the extrusion passage are described in relation to Figs. 4, 5, 6, 7 and 8 (not shown).

Classifications:
International (IPC 8-9): A23L1/10 A23L1/18 B30B11/22 B30B11/24 (Advanced/Invention); A23L1/18 B30B11/22 (Core/Invention)
International (IPC 1-7): A23L1/18
CPC: B30B11/24 A23L7/17 B30B11/221
European: A23L1/18B2 B30B11/22B B30B11/24



Family:

Publication number	Publication date	Application number	Application date
AU3414763 A1	19650218	AU19630034147	19630813
GB1029990 A	19660518	GB19630030435	19630731

Priority:
US19620218612 19620822

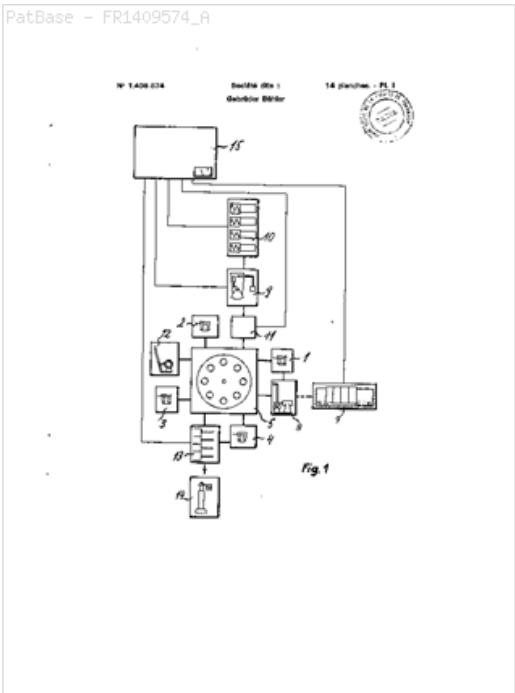
Probable Assignee:	GEORGE OLIVER GRAVES
Assignee(s): (std):	GEORGE OLIVER GRAVES
Assignee(s):	GEORGE O GRAVES
Inventor(s):	GEORGE O GRAVES

Title: INSTALLATION D'ENSACHAGE BAGGING INSTALLATION (Machine translation)

Abstract: Source: FR1409574A (Claim 1) **ATTENTION** debut du champ CLMS peut contenir fin de DESC **.

Machine translation: (Claim 1) ** WARNING ** start of CLMS field may contain ** end of DESC.

Classifications:
International (IPC 8-9): B65B1/32 (Advanced/Invention);
B65B1/30 (Core/Invention)
International (IPC 1-7): B65B1/32
CPC: B65B1/32
European: B65B1/32



Family:

Publication number	Publication date	Application number	Application date
FR1409574 A	19650827	FR19640987062	19640903

Priority:
FR19640987062 19640903

Probable Assignee: BUEHLER GEB AG

Assignee(s): (std): BUEHLER AG GEB ; BUEHLER GEB AG

Assignee(s): GEBRUEDER BUEHLER ; BUEHLER GEB