

1) Family number: 7434144 (US3756406A)

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Title:	GRAIN CLEANER			
Priority:	PH19700011647 19700714			
Family:	Publication number	Publication date	Application number	Application date
	US3756406 A	19730904	US19710162572	19710714
Probable Assignee:	US AGRICULTURE			
Assignee(s):(std):	SECR AGRICULTURE ; US AGRICULTURE			
Assignee(s):	SECRETARY OF AGRICULTURE US			
Inventor(s):(std):	KHAN A			
Inventor(s):	KHAN A RP			
International class (IPC 8-9):	B07B1/24 (Advanced/Invention);			
	B07B1/18 (Core/Invention)			
International class (IPC 1-7):	B07B1/24			
CPC:	B07B1/24			
European class:	B07B1/24			
US class:	209/291 209/294 209/295			

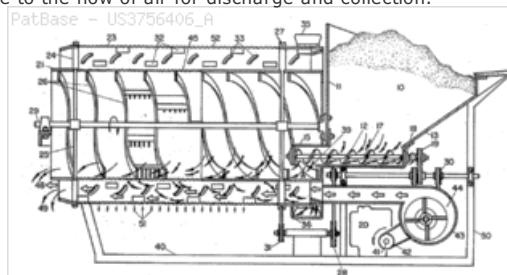
[Classification Explorer](#)

Cited documents: US3394808 A, US315523 A, US1386298 A, US1088117 A,

Forward Citations: WO9965619, WO9965619, WO8803444, WO18081752, US9555445, US8051988, US6951285, US6602130, US6360894, US5915569, US5587073, US5570790, US5433389, US5398814, US5019248, US4771579, US4582202, US4510946, US4475561, US4465080, US4464887, US4422462, US4178942, US4083775, US2011094199, US10124371, RU2471574, FR2745204, FR2576187, FR2343083, EP1094906, EP0101132, EP0101131, CN105921393, CN105921393, CN104368531, CN104368531, CN103521452, CN103521452, AU569847, AU569707,

Abstract:

The grain cleaner comprises a pair of rotating **concentric**, coaxial screens. Grain is delivered to the inner screen which has a mesh large enough to pass the grain and light impurities, such as chaff, but too small to pass large, heavy impurities such as straw. Baffles move the retained straw toward an exit at one end of the inner cylinder for collection and disposal. A current of air blowing in the space between the two cylinders separates the grain from the chaff and dust and carries the latter to an exit. Baffles in the outer cylinder move the cleaned grain in a direction opposite to the flow of air for discharge and collection.



2) Family number: 892595 (US3483975A)

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Title:	SUPPLEMENTAL SEPARATOR FOR GRAIN CLEANING MACHINES			
Priority:	US19680726462 19680503			
Family:	Publication number	Publication date	Application number	Application date
	US3483975 A	19691216	US19680726462	19680503
Probable Assignee:	JOSEPH WHALEN			
Assignee(s):(std):	HARRY GO YETTER ; JOAN WHALEN ; JOSEPH WHALEN			
Inventor(s):(std):	YETTER HARRY G			
Inventor(s):	HARRY G YETTER			
International class (IPC 8-9):	B07B1/24 (Advanced/Invention);			
	B07B1/18 (Core/Invention)			
International class (IPC 1-7):	B07B1/24			
CPC:	B07B1/24			
European class:	B07B1/24			
US class:	209/297 209/298 209/406			

[Classification Explorer](#)

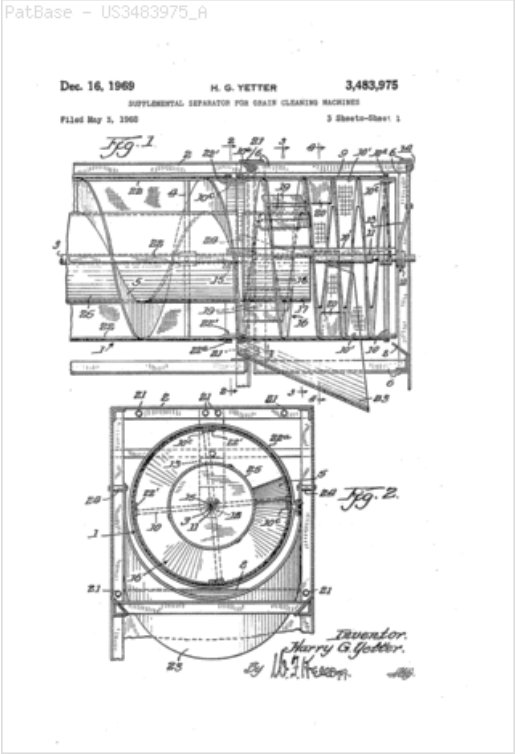
Cited documents: US315523 A, US3122499 A, US2942731 A, US2711824 A, US2705560 A, US2047808 A, US1761346 A, US1533997 A, SE95207, IT489970 A, GB759704 A, GB336252 A,

Forward Citations: WO14181356, US5398814, US5356338, US4507202, US2016129477, RU2559969, CN105579150,

Abstract:

ABSTRACT OF THE DISCLOSURE

A supplementing attachment for grain cleaners and separators having a rotatable perforate or screen cylindrical drum with opposed material inlet and outlet ends, an imperforate drum of less diameter fixedly mounted in **concentrically** spaced relation therein and rotatable therewith carrying an auger or spiral flight, a portion of which has spaced transversely disposed bucket blades fixedly mounted therebetween. The invention is attachable to or may be an integral part of the kind or type of separator or **grain cleaning machine** illustrated, described and claimed in my pending application for patent Ser. No. 677,007, filed Oct. 19, 1967. This invention relates to improvements in machines for cleaning grain, id est, machines which will function to separate by sifting and cleaning various kinds of grains, including shelled corn kernels, chaff, "fines," cob and other fragments, weeds, etc., whereby to assure their satisfactory preservation and storage, also, food usage of the nutriment containing "fines" and germs. B



3) Family number: 1591770 (DD148309A)

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Title: ANNAHMEKAMMER FUER EINE GETREIDEREINIGUNGSMASCHINE ADOPTION BOARD FOR A GRAIN CLEANING MACHINE (Machine translation)

Priority: DD19800218339 19800108

Family:	Publication number	Publication date	Application number	Application date
	DD148309 A1	19810520	DD19800218339	19800108

Probable Assignee: LANGE WILFRIED

Assignee(s):(std): LANGE WILFRIED ; MINAJEW VALENTIN ; MUELLER BERND ; REGGE HORST

Assignee(s): REGGE HORST DD ; MUELLER BERND DD ; MINAJEW VALENTIN SU ; LANGE WILFRIED DD

Inventor(s):(std): LANGE WILFRIED ; MINAJEW VALENTIN ; MUELLER BERND ; REGGE HORST

Inventor(s): REGGE HORST DD ; MUELLER BERND DD ; MINAJEW VALENTIN SU ; LANGE WILFRIED DD

International class B07B11/06 (Advanced/Invention);

(IPC 8-9): B07B11/00 (Core/Invention)

International class B07B11/06

(IPC 1-7):

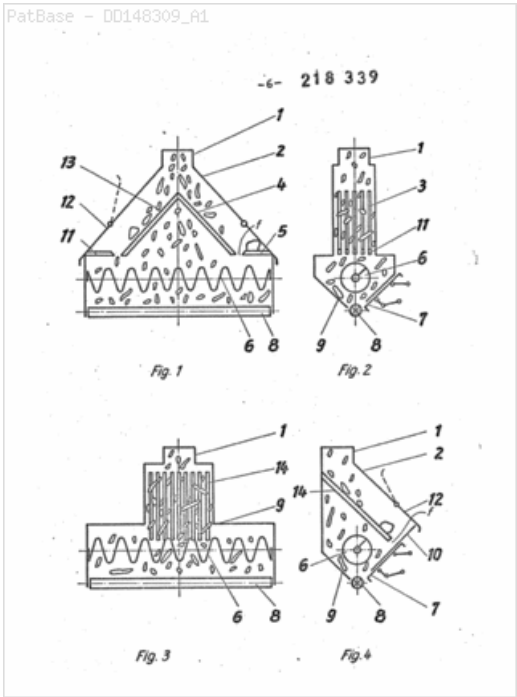
[Classification Explorer](#)

Forward Citations: DE4034300,

Abstract:

Source: DD148309A [DE] [Source: Claim 1] Erfindungsansprueche -s- 218 3 39 1. Annahme kaeme r der Getreidereinigungsmaschine, be- stehend aus dem Gehaeuse, der Schnecke, der Speise- walza und dem Schieber, dadurch gekennzeichnet, dass 5 ein Stabrost (5) als unterbrochenes Dreiwinkelpro- fil mit mittigem spitz- bis stumpfwinkligen Dach- teil und horizontal angeordneten Seitenteilen (5) und 11 ausgefuehrt ist, dessen geneigte Seiten (4) und (15) gleichlang sind, einen Winkel von hoechstens 10 150 degrees einschliessen und dessen First sich unter der Mitte des Einlaufstutzens (1) befindet. 2. Annahmekammer der Getreidereinigungsmaschine nach Pkt. 1, dadurch gekennzeichnet, dass zwischen geneig- ten Seiten (4) und (15) und den horizontalen Seiten- 15 teilen (5) und (11) oder zwischen einem Stabrost (14) und der Rueckwand (10) des Gehaeuses (9) sich ein Spalt (f) befindet, dessen Weite nicht groesser als die lich- te Weite zwischen den Roststaeben ist. 5. Annahmekammer der Getreidereinigungsmaschine nach 20 Pkt. 1, dadurch gekennzeichnet, dass die Breite des Stabrostes (14) ein bis dreimal groesser als die Weite des Einlaufstutzens (1) ist. 4. Annahmekammer der Getreidereinigungsmaschine nach Pkt. 1, dadurch gekennzeichnet, dass der Abstand zwi- 25 sehen den geneigten Seiten (4) und (15) oder dem Rost (14) und den geneigten Waenden (2) gleich der Welte des Einlaufstutzens (1) ist« -" " \ Hierzu 1 Seite Zeichnungen **Machine translation:** [Source: claim 1] Erfindungsansprueche-s-218 3 39 1 adoption would r of the **grain cleaning machine**, standing, walza out of the housing, the snail, the grade and the slide, characterised in that a bar grill (5) than intermittent Dreiwinkelpro-fil with **concentric** different to stumpfwinkligen roof part 5 and is executed, its inclined Seiten (4) and (15) are equal, horizontal side panels (5) and 11 degrees include an angle of not more than 10 150 and whose first is under the middle of the inlet fitting (1). 2. adoption Chamber of the **grain cleaning machine** after PT. 1, characterised in that geneig-ten (5) and (11) divide between pages (4) and (15) and the horizontal sides - 15 or between a bar grate is a gap (f) (14) and rear (10) of the housing (9), whose lich-te is not greater than the distance between the bars of the grate. 5. adoption Chamber of **grain cleaning machine** after 20 PT. 1, characterised in that the width of the bar grate (14) one to three times greater than the diameter of the inlet fitting (1). 4. Annahmekammer of the **grain cleaning machine** after PT. 1, characterised in that the distance between 25 see the sloping

sides (4) and (15) or grilled (14) and the sloping walls (2) equal to the Wallace of the inlet fitting (1) is "-" "" \ this 1 page of drawings "»



4) Family number: 1010778 (US3672505A)

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Title:

Priority:

Family:

Probable Assignee:

Assignee(s):(std):

Inventor(s):(std):

Inventor(s):

International class
IPC 8-9):

International class
IPC 1-7):

CPC:

European class:

US class:

[Classification Explorer](#)

Cited documents:

Forward Citations:

CLEANING AND SORTING MACHINE FOR PARTICULATE MATERIALS

US19700068311 19700831

Publication number	Publication date	Application number	Application date
 US3672505 A	19720627	US19700068311	19700831

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B07B1/18 (Advanced/Invention)

B07B1/22 B07B1/24

B07B1/18

B07B1/18

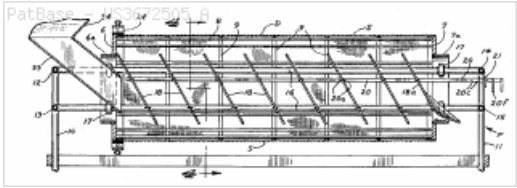
209/264 209/294

[Classification Explorer](#)

US448189 A, US402845 A, US3463314 A, GB190920943 A, DE139612 A,

WO9841335, WO03068419, US9370796, US7537122, US7374049, US6270025, US4252642, US2006192041, US2005139524, EP1007228, EP0553738, CN105268628, CN103008096, CN103008096,

Abstract:
A cleaning and sorting machine for removing particle trash, such as dockage, from desired larger particulate material of substantially uniform size, employs an elongate and generally cylindrical driven separating drum having a screen periphery of a predetermined mesh, for retaining the desired larger particles. The drum, mounted on a horizontal axis, has mounted therein a series or multiplicity of stationary slide baffles with peripheries of said baffles in spaced relation to the inner periphery of the drum and the baffles are declined from their upper portions to their lower portions in the direction of discharge of the machine, and constitute the only means for moving or progressing the particulate material from the entrance at one end of the drum to the discharge at the other end. The screen successively lifts particles over a substantial segmental area of the drum and thereafter, with gravity, dropping all particulate material upon the baffles with attendant rolling and sliding action and the said declined baffles are preferably densely perforated with sieve-like apertures of substantially the mesh of the drum screen to constitute a further separation step in the progress of all particulate material through the machine.



5) Family number: 18578870 (GB233155A)

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Title: Improvements in grain cleaning machines

Priority: GB19240012595 19240522

Family:	Publication number	Publication date	Application number	Application date
	GB233155 A	19250507	GB19240012595	19240522

Probable Assignee: HUMPHREY JOHN DENHAM

Assignee(s):(std): GEORGE WATTS ; SIMON LTD HENRY ; HUMPHREY JOHN DENHAM

Assignee(s): HENRY SIMON LIMITED ; HENRY SIMON LTD

International class (IPC 8-9): B07B7/01 (Advanced/Invention);
B07B7/00 (Core/Invention)

International class (IPC 1-7): B07B7/01

CPC: B07B7/01

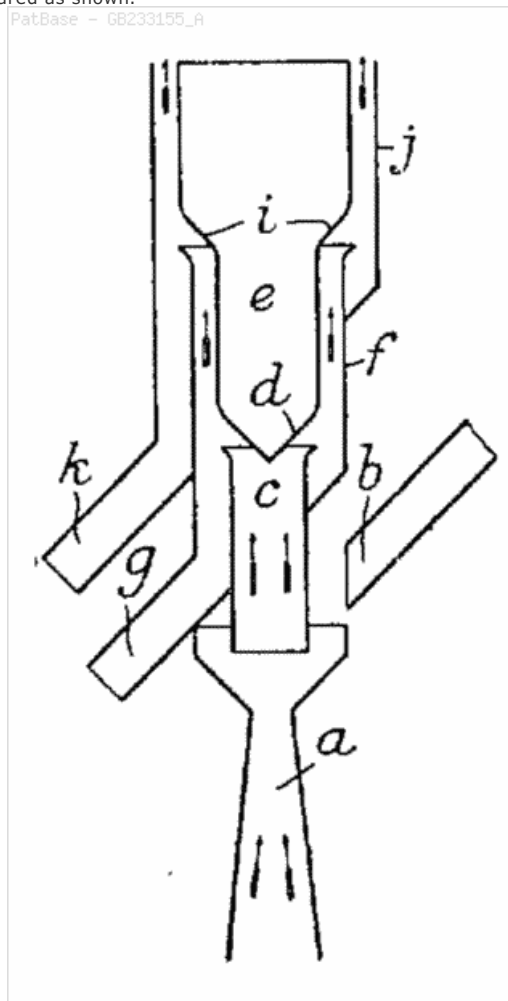
European class: B07B7/01

[Classification Explorer](#)

Forward Citations: US5152604,

Abstract:

Pneumatic separating. -Grain cleaning apparatus comprises a nozzle a from which air is projected with high velocity into an aspirating chamber c and impinges on the conical lower end of a member e. The air with decreased velocity passes up the annular space between the member e and a concentric collector f and impinges on a second conical surface i of the member e passing upward, with further decrease of velocity, between this member and a second collector j. The grain is fed into the stream of air by the shoot b and carried up through the chamber c, the cleaned grain and the heavier impurities being collected in the members f, i and discharged by the shoots g, k respectively, and the lighter impurities being carried off by the air to any suitable dust collector. The upper ends of the chamber e and collector f may be flared as shown.



6) Family number: 76108941 (CO20190006730U)

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Title: MAQUINA LIMPIADORA DE GRANOS Grain cleaning machine (Machine translation)

Priority: CO20190006730U 20190625

Family:	Publication number	Publication date	Application number	Application date
	CO20190006730 U1	20190930	CO20190006730U	20190625

Probable Assignee: FUENTES MENESES LINDA OMAIRA

Assignee(s):(std): FUENTES MENESES LINDA OMAIRA

Inventor(s):(std): MANTILLA GARCES JHON JAIRO

International class (IPC 8-9): A01D46/06 B02B1/00 B07B1/00 B07B13/00 (Advanced/Invention)

[Classification Explorer](#)

Abstract:

Source: CO20190006730U [ES] Una maquina limpiadora de granos, que comprende una estructura de soporte (12) que sostiene una carcaza (17), conectada a una tolva de alimentacion (1), un puerto de salida del producto (11), un puerto de salida de subproducto (13) y en su interior se encuentran ubicados **concentricamente** una criba (14) y un tubo de cinta (5), donde dicho tubo se encuentra rodeado por una cinta roscada (4) y bandas limpiadoras (3) distribuidas uniformemente a lo largo del tubo de cinta (5) y su movimiento depende de un motor electrico (7). **Machine translation:** A **grain cleaning machine**, comprising a support structure (12) that holds a housing (17), connected to a feed hopper (1), an output port of the product (11), a byproduct output port (13) and are located **concentrically** inside a screen (14) and a tube (5), wherein said tube is surrounded by a threaded portion (4) and (3) cleaning bands evenly distributed along the tape (5) and its movement depends on an electric motor (7).

7) Family number: 2333959 (GB2035141A)

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Title:	MACHINE FOR CLEANING AND/OR SORTING LOOSE MATERIALS																																																																																																		
Priority:	SU19782688555 19781128 SU19782691452 19781214 SU19792688554 19791128	SU19782688556 19781128 SU19782691453 19781214 SU19792688556 19791128	SU19782691451 19781214 CA19790338731 19791030 SU19792688555 19791128																																																																																																
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Probable Assignee:	UK NII MEKH ELEK SELSKOGO KHOZ																																																																																																		
Assignee(s):(std):	UK NII MECHANIZACII I ELEKTRIF ; UK NII MEKH ; UK NII MEKH I ; UK NII MEKH I ELEKTRI ; UK NII MEKH ELEK SELSK KHOZ ; UKRAIN NII MEK I ELEK SEL KHOZ ; UK NII MEKH I ELEK SELSKOGO KH ; UK NII MEKH ELEK SELSKOGO KHOZ ; UKRAINIAN SCIENTIFIC RESEARCH INST OF MECHANIZATION AND ELECTRIFICATION OF AGRICULTURE																																																																																																		
Assignee(s):	UKRAINSKY NAUCHNO ISSLEDOVATELSKY INSTITUT MEKHANIZATSII I ELEKTRI ; UKRAINSKY NAUCHNO ISSLEDOVATELSKY INSTITUT MEKHANIZATSII I ELEKTRIFIKATSII SELSKOGO KHOZYAISTVA ; UKRAINSKIJ NAUTSCHNO ISSLEDOVATELSKIJ INSTITUT MECHANIZACII I ELEKTRIFIKACII SELSKOGO CHOZJAJSTVA ; UKRAINSKIJ NAUCHNO ISSLEDOVATEL SKIJ INSTITUT MECHANIZACII I ELEKTRIFIKACII SEL SKOGO CHOZJAJSTVA GLEVACHA KIEVSKAJA OBLAST SU ; UKRAINSKY NAUCHNO ISSLEDOVATELSKY INSTITUT MEKHANIZATSII I ELEKTRIFIKATSII SELSKOGO KHOZVAISTVA ; UKRAINSKY NAUCHNO ISSLEDOVATELSKY INSTITUT MEKHANIZATSII I ; UKRAINSKY NAUCHNO ISSLEDOVATELSKY INSTITUT MEKHANIZATSII ; UKRAINSKY NAUCHNO ISSLEDOVATELSKY INST MEKHANIZATSII I ELEKTRIFIKATSII SELSKOGO KHOZYAISTVA ; UKRAINSKY NAUCHNO ISSLEDOVATELSKY INST MEKHANIZATSII ; UKRAINSKY NAUCHNO ISSLEDOVATELSKY INST MEKHANIZATSII I ELEKTRI ; UKRAIN N I INST MEKHANIZ I ELEKTRIFIKAT SEL KHOZY ; UKRAINSKIJ NAUCHNO ISSLEDOVATEL SKIJ INST MECHA ; UK NII MEKH ELEK SELSKOGO KHOZYAJSTVA ; UK NII MEKH ELEK SELSKOGO KHOZYAJSTVA V AKADEMII SELSKOKHOZYAJSTVENNYKH NAUK IM V I LENINA ; UK NII MEKH ELEK SELSKOGO KHOZYAJSTVA YUZHNOGO OTDEL V AKADEMII SELSKOKHOZYAJSTVENNYKH NAUK IM V I LENINA ; GONCHAROV EVGENY S ; I I ELEKTRIFIKATSII SELSKOGO KHOZYAISTVA ; PRILUTSKY ANATOLY N ; SHEVCHUK VIKTOR I																																																																																																		
Inventor(s):(std):	GONCAROV EVGENY SERGEEVIC ; GONCHAROV E S ; GONCHAROV EVGENY S ; GONCHAROV EVGENY SERGEEVICH ; MOISEENKO V K ; PRILUTSKIJ ANATOLIJ N ; PRILUTSKY A N ; PRILUTSKY ANATOLY N ; PRILUTSKY ANATOLY NAZAROVICH ; PRILUTSKY ANATOLY NAZAROVICH ; PRILUTSKY KIEV ANATOLY NAZAROV ; MOISEENKO KIEVSKAYA VIADIMIR K ; SEVCUK VIKTOR IVANOVIC ; SHEVCHUK KIEVSKAYA VIKTOR IVAN ; SHEVCHUK V I ; SHEVCHUK VIKTOR I ; SHEVCHUK VIKTOR IVANOVICH ; GONCHAROV EVGENIJ S ; SCHEVTSCHUK VIKTOR IVANOVITSCH ; PRILUTSKY ANATOLY NAZAROVITSCH ; MOISEENKO VLADIMIR KONSTANTINO ; GONTSCHAROV EVGENY SERGEEVITSC																																																																																																		
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International class (IPC 8-9):	B07B1/26 B07B1/52 B07B11/06 B07B9/00 (Advanced/Invention); B07B1/18 B07B1/46 B07B11/00 B07B9/00 (Core/Invention)																																																																																																		
International class (IPC 1-7):	B07B1/00 B07B1/26 B07B1/28 B07B1/50 B07B1/52 B07B9/00																																																																																																		

CPC: B07B1/26 B07B9/00 B07B11/06

European class: B07B1/26 B07B11/06 B07B9/00

[Classification Explorer](#)

Cited documents: US3351200 A, US2802570 A, GB647919 A, DE767207 A,

Forward Citations: WO8803061, RU2675607,

Abstract:

A machine for cleaning and/or sorting loose materials comprises at least one cleaning and/or sorting unit (1) having a hollow casing (5) which is secured to a frame (2). The casing accommodates, arranged in series, a pneumatic separating duct (6) having a spreader (7) of loose material mounted therein, and a rotor (8) comprising a screen drum (9) having at the top portion thereof a distributor (81) of loose material. Screen cleaners (10,11) are provided outside of the drum (9) and directly engage it. A drive (4) of the screen drum is secured to the frame and imparts to the drum simultaneously rotary and oscillatory motions. The or each unit (1) communicates with an aspiration chamber (3).

