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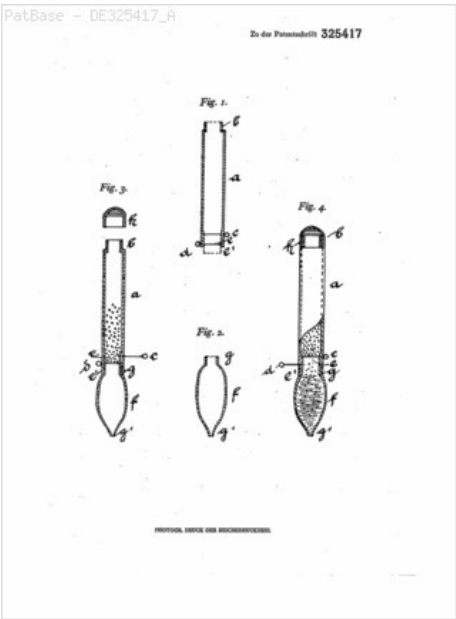
Search 1: TAC=((injection or syringe) and (device or mechanism) and (second or double or two) and (dose or shot)) and IC=(A61M) (Results 1620)

Title: Spritze mit Dosierungsvorrichtung **Syringe** with a dosing **device** (Machine translation)

Abstract: Source: DE325417A (Claim 1) 1.PATENT-ANSPRUCH: Spritze mit einem Behälter zur Aufnahme von antiseptischem Pulver und einer damit verbundenen Dosierungsvorrichtung, dadurch gekennzeichnet, dass in dem unteren Teil des Behälters (a) für das Pulver zwei Schieber (c, d), die in Schlitz (e) des Behälters laufen, übereinander derstehend angeordnet sind und einen dazwischenliegenden Dosierungsraum (e) einschließen.

Machine translation: (claim 1) 1.PATENT CLAIM: **Syringe** with imQin containers for on-nabine of antiseptic powder and an associated Dosierungsvor direction, 'characterized by the fact that in your lower part of tank (a) for the **two** powder slide (c, d), which is run in slots d'container derstehend one on top, and are arranged as an intermediate **dose** = Area (e) include.

Classifications:
International (IPC 8-9): A61M3/00 (Advanced/Invention);
A61M3/00 (Core/Invention)
International (IPC 1-7): A61M3/00
CPC: A61M3/00
European: A61M3/00



Family:

Publication number	Publication date	Application number	Application date
DE325417 A	19200914		00000000

Probable Assignee: FRIEDRICH SCHOTTMUELLER
Assignee(s): (std): FRIEDRICH SCHOTTMUELLER

Title: HYPODERMIC OUTFIT CASE

Abstract: Source: US2077240A 1. At one end the casing is provided with a compartment | 5 of a length and depth to receive, for instance, the insulin bottle |6. A spring clip I1 will be employed and held in place by rivets I8 or by other suitable means so that the spring jaws of the clip I1 will readily expand to receive and release the bottle I6 and hold it firmly in position against lateral rolling movement in the compartment IE, as shown clearly in Figs. 1 and

Classifications:

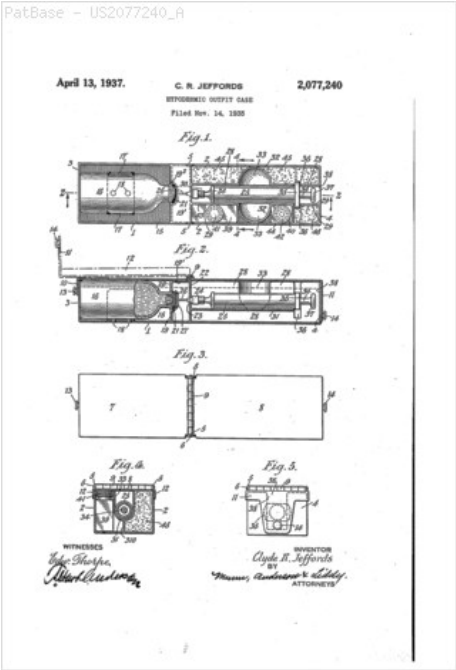
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International (IPC 1-7): A61B19/02

CPC: A61J1/201 A61J1/2096 A61M5/1782

European: A61J1/00M6 A61J1/20F A61M5/178F K61J1/20A2A

US: 206/229 206/365 422/300 604/197



Family:

Publication number	Publication date	Application number	Application date
US2077240 A	19370413	US19350049807	19351114

Priority:

US19350049807 19351114

Probable Assignee: JEFFORDS CLYDE R

Assignee(s): (std): JEFFORDS CLYDE R

Inventor(s): (std): JEFFORDS CLYDE R

Title: Improvements in hypodermic **syringes**

Abstract: Source: GB622848A 622,848. Hypodermic and c. **syringes**. McLINTOCK, D. M. Jan. 16, 1947, No. 1553. [Class 81 (ii)] A hypodermic and c. **syringe** is provided with a pawl and ratchet **mechanism** 29, 21 whereby the plunger 11 is lowered by equal steps upon each actuation of a handlever 24 to deliver equal **doses** of fluid. The pawl 29 is carried by the plunger 11 and co-operates with a rack 21 on a spring-raised rod 19 slidable within the plunger, reverse movement being prevented by a detent 30 engaging a rack 32 on a frame 15 forming an extension of the usual cylinder. Downward movement of the lever 24 is limited by a stop on the frame 15 or, if adjustability is required, by one of a number of projections on a rotary turret member 38 (not shown).

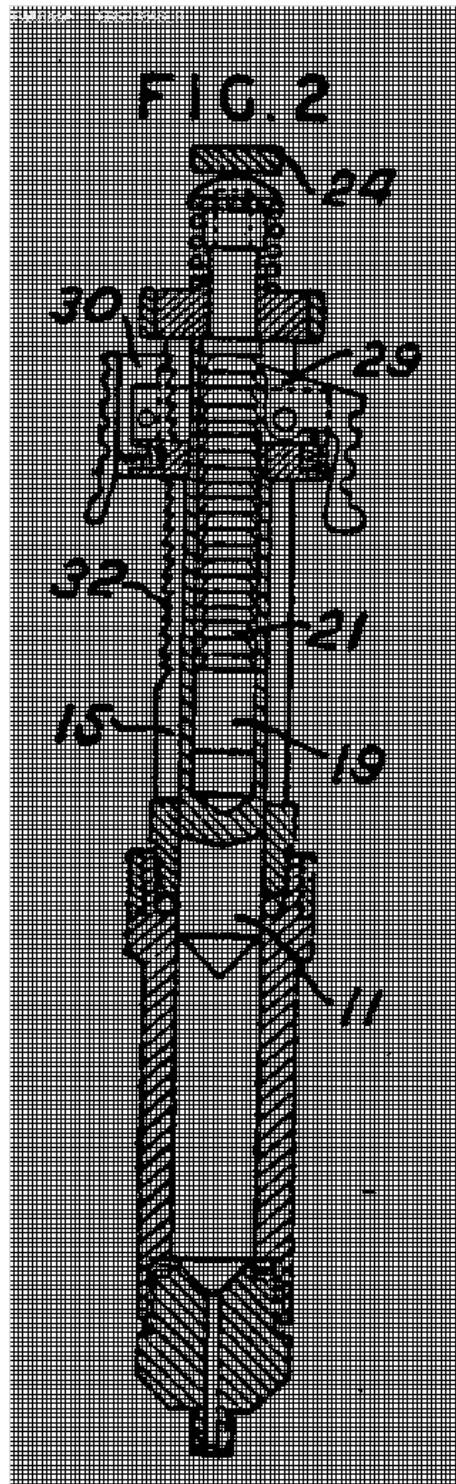
Classifications:

International (IPC 8-9): A61M5/315 (Advanced/Invention)

International (IPC 1-7): A61M5/20 A61M5/315

CPC: A61M5/31505 A61M5/3156 A61M5/31581 A61M5/31595 A61M2005/3139

European: A61M5/315F2A2 A61M5/315F3B2 K61M5/315B1C K61M5/315E2B4 K61M5/31C4C



Family:

Publication number	Publication date	Application number	Application date
GB622848 A	19490509	GB19470001553	19470116

Priority:

GB19470001553 19470116

Probable Assignee: DUNCAN MENZIES MCLINTOCK

Assignee(s): (std): DUNCAN MENZIES MCLINTOCK

Abstract: Source: US2523850A (Claim 1) 1. In a syringe for use on the body ol' 2. patient, a barrel, a plunger cooperating with _the barrel, a bracket secured to the barrel adjacent the end at which the plunger enters and including a socket and a carrier engaging in the socket and also engaging the opposite end of the barrel to support the syringe from the body and extending longitudinally of the barrel in spaced relation in position to support the barrel against the body.

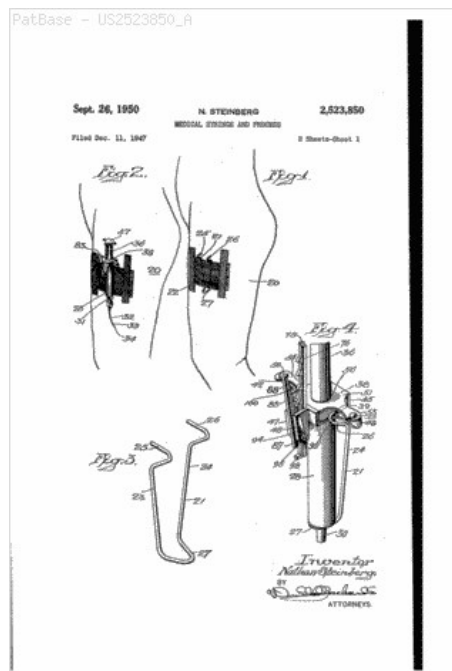
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International (IPC 1-7): A61M5/00 A61M5/315

CPC: A61M5/1424 A61M5/3158 A61M5/31595

European: A61M5/142G20 A61M5/315F3B2 K61M5/315F2A1

US: 604/209



Publication number	Publication date	Application number	Application date
US2523850 A	19500926	US19470791009	19471211

US19470791009 19471211

Probable Assignee: NATHAN STEINBERG

Assignee(s): (std): NATHAN STEINBERG

Inventor(s): (std): NATHAN STEINBERG

Inventor(s): STEINBERG NATHAN

Title: **DEVICE** FOR OPERATING HYPODERMIC **SYRINGES**

Abstract: Source: GB662352A 662,352. **Syringe** holders. MAYNES, E. C. Feb. 17, 1949, No. 4353/49. Class 81 (ii). A **device** for operating hypodermic **syringes** in an automatic manner comprises a holder having an elongated stationary trough for supporting and guiding the **syringe** cylinder and an actuator movable in the trough and in engagement with the **syringe** plunger in order to slide the cylinder forward along the trough to project the needle, a stop on the holder limiting said sliding of the cylinder to cause the plunger to be moved in the cylinder by continued movement of the actuator. As shown, Figs. 1, 4, the **device** comprises rotatably connected telescopic members 10, 11 forming an elongated receptacle 12 for the **syringe** 13, the ends of the **syringe** cylinder being provided with flats 13b, 13d, in order that the **syringe** may be inserted into the holder as shown in Figs. 5, 6. The member 11 contains a spring loaded slidable actuator 17 the front end of which is provided with a cushion 17a engagable with the cylinder plunger 15. Retraction of the actuator against the spring 18 is by manual pressure on the detent 17b. The rear end of member 11 has a hollow tube 19 provided with a central rod 20 which, as shown in Fig. 9, is used to facilitate the transfer of liquid from a vial 30 to the **syringe** 13 the metal cap 32 covering the rubber seal of the vial, being first punctured by a point 26a on the adjustable securing means between the member 10 and the forked skin-engaging element 25. Pressure on the needle 14 engaging the vial causes the rod 20 to actuate the piston 31. Adjustment of the length of the holder is effected by the engagement of an external lug on the member 10 with one of a plurality of longitudinally spaced recesses formed in the member 11. On assembly of the members the lug enters the slot 11a and by rotation of member 10 moves circumferentially around the recess 11f which opens into a longitudinal recess on the side of member 11. The spaced recesses open out into this recess and engagement of the lug with a selected spaced recess is effected when the lug is in the longitudinal recess by further rotation of the member 10. In operation the catch 23 is depressed, thereby releasing the actuator 17 which moves the **syringe** bodily forward until the flange 13c contacts the resilient stop 34 when the needle 14 has penetrated the patient's skin. Continued movement of the actuator then expels the liquid from the **syringe**. A further embodiment, Fig. 14, comprises **two** telescopic members 36, 39, the member 39 being urged rearwardly of the member 36 by a spring 43. This withdrawal member 39 carries at its forward end a resilient stop 34 and on depression of the catch 53 it moves rearwardly causing the stop 34 to engage the **syringe** flange 13c, thereby effecting the withdrawal of the needle from the patient. Rearward movement of the member 39 is limited by a lug 40 slidable in a longitudinal recess 36b formed in the member 36. The actuator 45 is provided with teeth 45a for engagement with the spring-loaded operating catch 51 depression of which releases the actuator and causes automatic **syringe injection**. In another embodiment, similar to that shown in Fig. 14, operation of the **syringe** is entirely automatic, pressure on the forked skin-engaging element causing a longitudinal rod to disengage the catch from the teeth on the actuator. The actuator is provided at its rear end with a cam which is engagable with a catch fastened to a member similar to 36 in Fig. 14 and which holds the withdrawal member against rearward movement. When the **injection** is completed the cam operates this catch, causing the withdrawal member to effect withdrawal of the needle from the patient.

Classifications:

International (IPC 8-9): A61M5/20 A61M5/315 (Advanced/Invention);

A61M5/46 (Advanced/Non-invention);

A61M5/20 A61M5/315 (Core/Invention);

A61M5/46 (Core/Non-invention)

International (IPC 1-7): A61M5/20

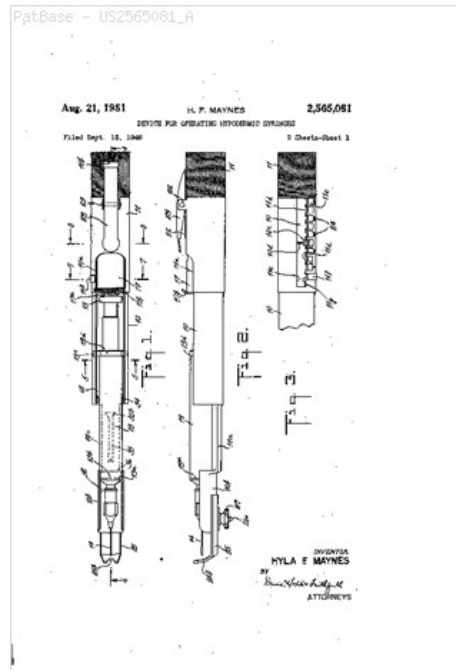
CPC: A61M5/1782 A61M5/31555 A61M5/3156 A61M5/31563 A61M2005/202

A61M5/31525 A61M5/2033 A61M5/31551 A61M5/31578 A61M5/31591 A61M5/46

A61M2005/206

European: A61M5/20C A61M5/315D A61M5/315E2B1A A61M5/315F3A

US: 604/136 D24/113



Family:

Publication number	Publication date	Application number	Application date
GB662352 A	19511205	GB19490004353	19490217
US2565081 A	19510821	US19480049352	19480915

Priority:

US19480049352 19480915 GB19490004353 19490217

Probable Assignee: EMMA C MAYNES

Assignee(s): (std): EMMA C MAYNES ; EMMA CAMPBELL MAYNES

Inventor(s): (std): MAYNES HYLA F

Title: Process and apparatus for fractionated **injections**

Abstract: Source: GB693505A 693,505. Hypodermic **injection** apparatus. LETAC, R. Oct. 24, 1950 [Oct. 25, 1949], No. 25916/50. Class 81 (ii). A needleless hypodermic injector is provided with means for frequently and periodically cutting off the jet which is produced by high pressure so that the **injection** is completed in an intermittent manner. An injector of known type having a calibrated discharge port at one end 14 is provided with a regulating valve 17 under the control of a spring 16. A pump is operated by an electric motor 1 which is geared to a cam shaft 5 so that it causes the reciprocation of a piston 8 in a cylinder 10 in order to supply periodically **injection** liquid from a flask to the injector through a flexible pipe 13. An auxiliary pump (not shown) may be provided between the pump and the injector, oil being the pressure-transmitting medium and the **injection** liquid flask being fitted to the auxiliary pump.

Classifications:

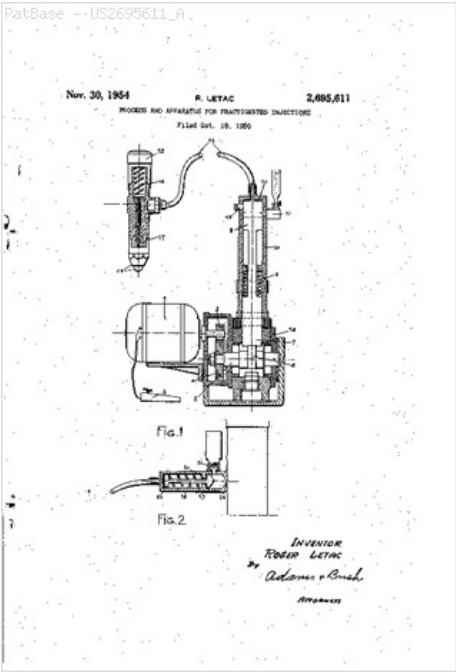
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A61M5/30 (Core/Invention)

International (IPC 1-7): A61M5/30

CPC: A61M5/30

European: A61M5/30

US: 604/71



Family:

Publication number	Publication date	Application number	Application date
DE876312 A	19530511	DE1950L006095	19501025
FR999431 A	19520130		00000000
GB693505 A	19530701	GB19500025916	19501024
US2695611 A	19541130	US19500190776	19501018

Priority:

19491025

Probable Assignee: LETAC ROGER

Assignee(s): (std): LETAC ROGER ; ROGER LETAC

Inventor(s): (std): LETAC ROGER ; ROGER LETAC

Title: **Injection syringe**

Abstract: Source: US2585815A (Claim 1) 1. An **injection syringe** comprising a cylinder to receive a fluid, an injector on the cylinder, a support on the cylinder, a guide on said support, a hollow plunger in the cylinder and extending therefrom in association with said support, wings on the support formed with out-turned tails, the wings and tails being engageable by the fingers of the user of the instrument to effect push-pull action, a rod member extending through said guide and into the hollow plunger, ratchet-teeth on said rod member, a springpressed pawl on said plunger engaged by said ratchet-teeth, a hand-operable lever member fulcrumed on said support, being depressible by the hand of the user and being arranged to depress said rod member, pawl and plunger to cause ejection of a **dose** of fluid from said cylinder and through said injector, a spring interposed between said support and said rod member to return the rod member and lever member following each depression thereof, corresponding ratchet-teeth on said support, a spring-pressed detent on said plunger engaging said corresponding ratchet-teeth and thus holding the plunger and pawl against return with the rod member, an adjustable stop **device** interposed between said support and said lever member, said **device** presenting at different levels a plurality of stops individually contactable by one of said lever and rod members and serving to determine the size of each **dose**, and means for holding said **device** in its position of adjustment.

Classifications:

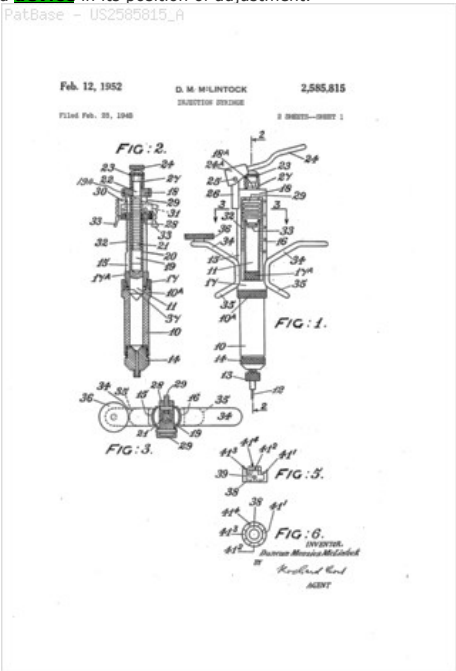
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International (IPC 1-7): A61M5/20 A61M5/315

CPC: A61D7/00 A61M5/20 A61M5/31581 A61M5/31595

European: A61D7/00 A61M5/20 A61M5/315F3B2 K61M5/315F2A2

US: 604/209 604/224 604/227



Family:

Publication number	Publication date	Application number	Application date
US2585815 A	19520212	US19480010682	19480225

Probable Assignee: MENZIES MCLINTOCK DUNCAN
Assignee(s): (std): MENZIES MCLINTOCK DUNCAN
Inventor(s): (std): MENZIES MCLINTOCK DUNCAN
Inventor(s): MCLINTOCK DUNCAN MENZIES

Title: Dispensing gun

Abstract: Source: US2624338A (Claim 1) 1. We claim as our invention: I. A dispensing gun comprising a cartridge-receiving barrel, a plunger adapted to be advanced in a cartridge received in said barrel, intermittently operable trigger-actuated **mechanism** to impose dispensing force on said plunger to advance it in said cartridge, plunger-holding means having limited lost-motion retraction movement, said retraction movement being opposed by less force than that imposed on the plunger by said trigger-actuated **mechanism**.

Classifications:

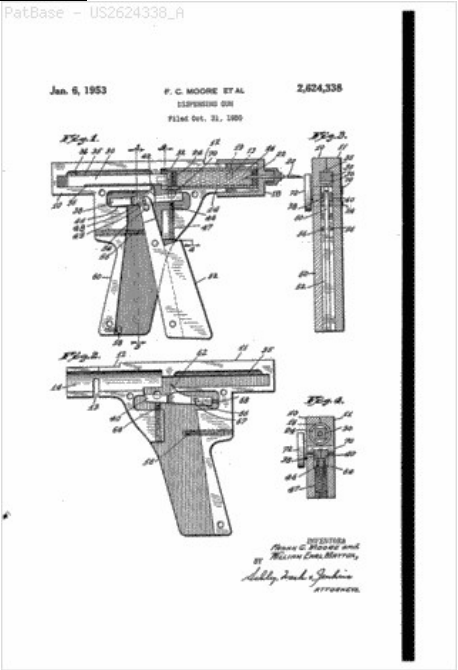
International (IPC 8-9): A61M5/315 G01F11/02 (Advanced/Invention)

International (IPC 1-7): A61M5/20

CPC: A61M5/31581 A61M5/31595 G01F11/026

European: K61M5/315F2A2

US: 222/391 222/79 604/223



Family:

Publication number	Publication date	Application number	Application date
US2624338 A	19530106	US19500193194	19501031

Priority:

US19500193194 19501031

Probable Assignee: EARL MATTOX WILLIAM

Assignee(s): (std): EARL MATTOX WILLIAM ; MOORE FRANK C

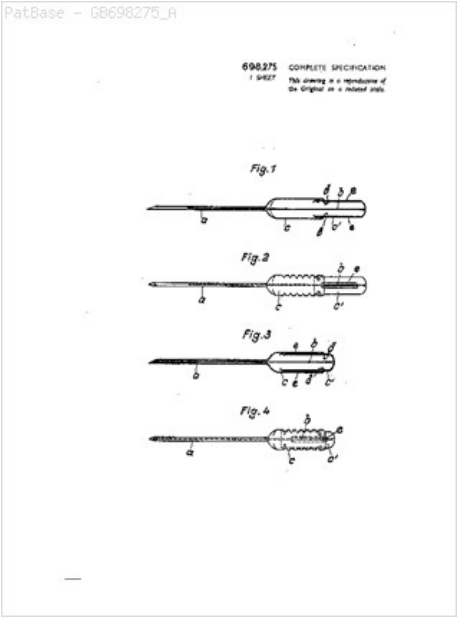
Inventor(s): (std): MOORE FRANK C ; EARL MATTOX WILLIAM

Inventor(s): MATTOX WILLIAM EARL

Title: Improvements in surgical **injection devices**

Abstract: Source: GB698275A 698,275. Hypodermic **Injection devices**. SCHERING AKT.-GES. Jan. 12, 1951 [Jan. 16, 1950], No. 968/51. Class 81 (ii). A **device** for subcutaneous or intramuscular **injections** of small quantities of salve or paste comprises a hollow needle in the bore of which a piston is adapted by a guide to move between **two** limiting positions in one of which the end of the piston is at the point of the needle and in the other of which the piston is so far withdrawn within the bore as to free the bore to an extent corresponding to the volume of medicament to be expressed by the piston. The piston b is in the form of a rod. The guide is composed of **two** parts in telescopic relation, one part c being integral with the needle a and the other part c¹ being integral with or connected to the piston b. Lugs d on the part c integral with the needle a move within slots e in the part c' integral with the piston b, the opposite ends of the slots e defining the limiting positions of the piston b. Before use the point of the needle a is kept sterile by a cover of glass or "Cellophane " (Registered Trade Mark) and the other end of the needle is provided with a plug of paraffin or other wax.

Classifications:
International (IPC 8-9): A61M5/28 (Advanced/Invention);
A61M5/28 (Core/Invention)
International (IPC 1-7): A61M5/28
CPC: A61M5/28
European: A61M5/28



Family:

Publication number	Publication date	Application number	Application date
GB698275 A	19531014	GB19510000968	19510112

Probable Assignee: SCHERING AG
Assignee(s): (std): SCHERING AG
Assignee(s): SCHERING A G

Title: Improvements in or relating to hypodermic **injection devices**

Abstract: Source: GB722491A 722,491. Hypodermic **injection devices**. LYONS, J. H. M. Sept. 3, 1953 [Nov. 18, 1952], No. 29124/52. Class 81 (2). A hypodermic **injection device** comprises a deformable sealed container charged with **injection** fluid and provided with a closed nipple and a needle mounting adaptor to be connected to said nipple for the attachment of a needle thereto, the needle mounting adaptor being provided with means for piercing the nipple. A deformable container 11 made of plastic material e.g. synthetic resin is provided with a closed neck 13 for the connection of a needle mounting adaptor 16. The adaptor 16 is provided with a piercer needle 19 for piercing a part of the neck 13 and a conical boss 20 for the reception of a hypodermic needle 24. Adaptor 16 and needles 24 are stored in a container 25 of surgical spirit. A screw cap 26 of the container 25 is provided with a depending rod 27 provided with brackets 28, 29 for supporting the adaptors 16 and needles 24 respectively in the container 25 when closed by the cap 26. A supply of **injection** containers and containers of adaptors and needles may be stored in a box.

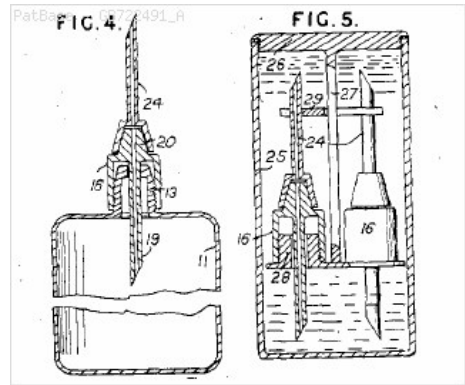
Classifications:

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A61M5/28 (Core/Invention)

International (IPC 1-7): A61M5/28

CPC: A61M5/282

European: A61M5/28E1



Family:

Publication number	Publication date	Application number	Application date
GB722491 A	19550126	GB19520029124	19521118

Priority:

GB19520029124 19521118

Probable Assignee: JOAN HELEN MARY LYONS

Assignee(s): (std): JOAN HELEN MARY LYONS