

Title (en)

INCREMENTING MECHANISM IN PARTICULAR FOR USE WITH A MEMBRAL SYRINGE

Title (de)

INKREMENTIERUNGSMECHANISMUS, INSBESONDERE ZUM GEBRAUCH MIT EINER MEDIZINISCHEN SPRITZE

Title (fr)

MECANISME INCREMENTIEL DESTINE EN PARTICULIER A UNE SERINGUE A MEMBRANE

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Application

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Abstract (en)

[origin: WO9626754A2] A mechanism for accurate dispensing of pre-set quantities of medicament from a syringe has a plunger (17) rotatable within a housing (13), which plunger (17) has a cam surface (19) engaged by a fixed follower (22) such that rotation of the plunger (17) moves the plunger away from the syringe. Internally within the plunger there is a number of parallel racks (40) each of which in turn comes into engagement with a first toothed wheel (47) on rotation of the plunger. The first toothed wheel (47) is connected to a second toothed wheel (48) which runs on a fixed rack (49) extending within the plunger parallel to the axis thereof. The first toothed wheel (47) is coupled to a thrust rod (44) for the piston (12) of the syringe. After pre-setting a required dose by rotation of the plunger (17), the plunger is then pushed towards the syringe, so rotating the first and second toothed wheels (47 and 48). This drives the thrust rod (44) into the syringe but by appropriate selection of the toothed wheel diameters and the tooth pitch thereof, an advantageous velocity ratio between the plunger and thrust rod movements may be obtained.

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A61M 5/315; A61M 5/20

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See references of WO 9626754A2

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