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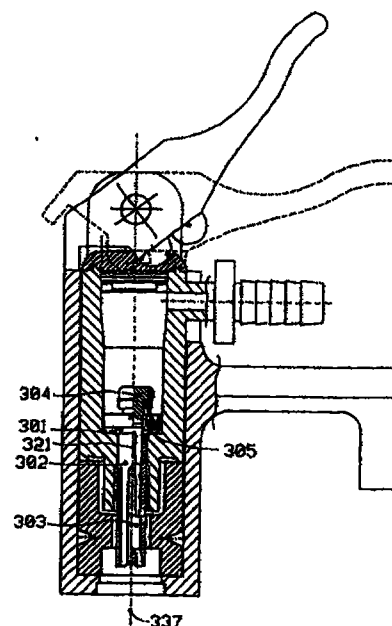
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(71) Applicant (for all designated States except US): NVB INTERNATIONAL [DK/DK]; Gærdet 12, P.O. Box 69, DK-3460 Birkerød (DK).		Published With international search report. With amended claims.	
(72) Inventor; and (75) Inventor/Applicant (for US only): VAN DER BLOM, Nicolaas [NL/DK]; Gærdet 12, DK-3460 Birkerød (DK).			

(54) Title: ACTIVATION PIN

(57) Abstract

By means of an activation pin for a valve connector, which activation pin is designed as a piston (301) with a piston rod (302), moving in the coupling house of the valve connector where the activation pin has a central drilling (303) and a piston valve (304) kept closed by a spring force, the aim is to produce a reliable activation pin which is reliable, cheap, has low aerodynamic drag and thus, is comfortable to use for pumping purposes and provides the shortest possible pumping time. Pursuant to the invention, this is achieved by the fact that one or more channels (303, 321) are defined by the piston rod (302) and/or the piston valve rod (322) in the assembled activation pin which channels (303, 321) are positioned in a mainly longitudinal direction in relation to the centerline (337) of the activation pin, of which the cross section approximately can be defined by at least one closed curve, which can be defined by two unique modular parametrisation Fourier Series expansions, one for each co-ordinate function (A), where (a), (b), $0 \leq x \leq 2\pi$, $x \in \mathbb{R}$, $p \geq 0$, $p \in \mathbb{N}$, c_p = cos-weighted average values of $f(x)$; d_p = sin-weighted average values of $f(x)$; p = representing the order of trigonometrical fineness.



$$f(x) = \frac{c_0}{2} + \sum_{p=1}^{\infty} c_p \cos(px) + \sum_{p=1}^{\infty} d_p \sin(px)$$

$$c_p = \frac{2}{\pi} \int_0^{\pi} f(x) \cos(px) dx$$

$$d_p = \frac{2}{\pi} \int_0^{\pi} f(x) \sin(px) dx$$

$$0 \leq x \leq 2\pi, x \in \mathbb{R}$$

$$p \geq 0, p \in \mathbb{N}$$