

Title (en)
HIGH PRESSURE PUMP

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Application
EP 90114874 A 19870407

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Abstract (en)
[origin: EP0285685A1] The invention sets out to create a unit with a fluid flowing through it even for high pressures up to several thousand bar which functions reliably and efficiently and yet is cheap and space-saving. Such a unit should preferably function between 400 and 4000 bar whilst simplifying and improving measures which have been published in the European specification 0 102 441. To this end a new type of tapered annular parts are proposed, tested and placed in specific relationships to pressures in internal and/or external chambers. The defects of former units which limited their pressures are recognised and overcome, design, exclusion of dead spaces, minimising of points to be sealed and improved sealing for high pressures being tested and their theoretical bases identified. W, S, W-Y, V-elements, diaphragms tapered rings with lugs for radial limits and other means made the units reliable in testing and produced good levels of efficiency. <IMAGE>

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