

Title (en)

METHOD FOR OPERATING A PUMP-NOZZLE UNIT AND A CORRESPONDING PUMP-NOZZLE UNIT

Title (de)

VERFAHREN ZUM BETREIBEN EINER PUMPE-DÜSE-EINHEIT SOWIE PUMPE-DÜSE-EINHEIT

Title (fr)

PROCEDE POUR ACTIONNER UNE UNITE POMPE-AJUTAGE ET UNITE POMPE-AJUTAGE CORRESPONDANTE

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Application

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Abstract (en)

[origin: WO02081900A1] The invention relates to a pump-nozzle unit (10) for injecting fuel into the combustion chamber of an internal combustion engine. To this end, an increase in a system pressure causes a valve element (28) to open counter to a pretensioning force. As the system pressure increases so does the pretensioning force, whereby a valve closing pressure that is higher due to the increased pretensioning force is always lower than the system pressure. The system pressure is then decreased to a value lower than the valve closing pressure whereby causing the valve element to close. Afterwards, the system pressure is increased once again so that the valve element opens during a post-injection in the occurrence of a valve opening pressure that is higher due the increased pretensioning force. Finally, the system pressure is decreased once again as well as the pretensioning force whereby causing the valve element (28) to close.

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