

Title (en)  
MULTI-STAGE EJECTOR PUMP

Title (de)  
MEHRSTUFIGE EJEKTORPUMPE

Title (fr)  
POMPE A EJECTEUR A ETAGES MULTIPLES

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Application  
**EP 00962511 A 20000920**

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Abstract (en)  
[origin: WO0121961A1] A multi-stage ejector pump has an ejector nozzle system (18) whose nozzles are situated coaxially behind each other and are axially set apart from each other (compressed gaz nozzle (18A) and diffusors (18B, 18C)). Said ejector nozzle system can be axially sealingly pushed into a nozzle-receiving shaft (14) of a housing element (12). The housing wall is interrupted in the area of the suction gas inlet gap (24A, 24B) between adjacent nozzles to provide a fluid connection to suction chambers. The aim of the invention is to provide a multi-stage ejector pump of this type which has a compact construction, interchangeable nozzles and a high degree of efficiency. To this end, the ejector nozzle systems (18) are made up of a set of individual nozzles and nozzle spacers (22A, 22B) and each of the individual nozzles is provided with support elements on its outer periphery. Said support elements are axially set apart and provide tilt-free or low-tilt support in relation to the wall of the nozzle-receiving shaft (14). The nozzles and the nozzle spacers are held in contact with each other.

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