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(54) **Suction device for holding rivets in a riveting tool**

(57) The device for suctioning the rivets in a riveting tool involves a hydraulically controlled clamping assembly with a hydraulic piston (2). The device consists of a tube (4) passing through the axial central passage opening of the hydraulic piston (2), the back end (23) of which is fitted in the rear screw joint (15) closing off the body (1) of the riveting tool in the part forming the cylinder (18); into the forward end (22) of the tube (4) there is pressed a small hollow piston (3) between whose inner elongated end (25) and the tube (4) there is a ring-shaped space (17) in which area the tube (4) is provided with at least one opening (5) connected with the supply

of pressurized air. The tube (4) has clearance along the whole length of its positioning in the hydraulic piston (2), where the ring-shaped gap (27) thus created between the tube (4) and the body of the hollow hydraulic piston (2) forms a connection between the opening (5) of the tube (4) and the space (6) in the cylinder (18) of the hydraulic piston (2) connected to the supply of pressurized air, while the outer shoulder (7) of the small piston (3) with its radial projection (8) reaches the inner shoulder (29) of the hydraulic piston (2) under pressure from the compression spring (9) of the spacing mandrel (13).

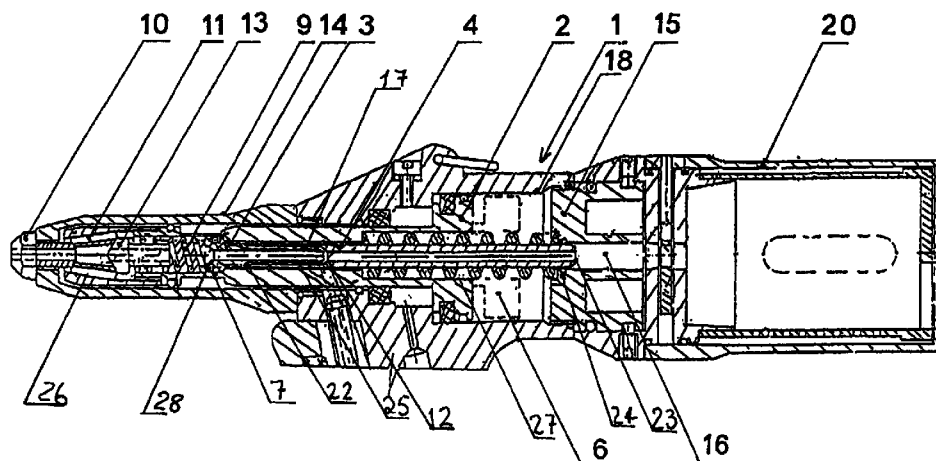


FIG.1

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EUROPEAN SEARCH REPORT

Application Number
EP 98 20 4028

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
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			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			B21J
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 20 January 2000	Examiner Marc Augé
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons</p> <p>& : member of the same patent family, corresponding document</p>			

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ON EUROPEAN PATENT APPLICATION NO.**

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