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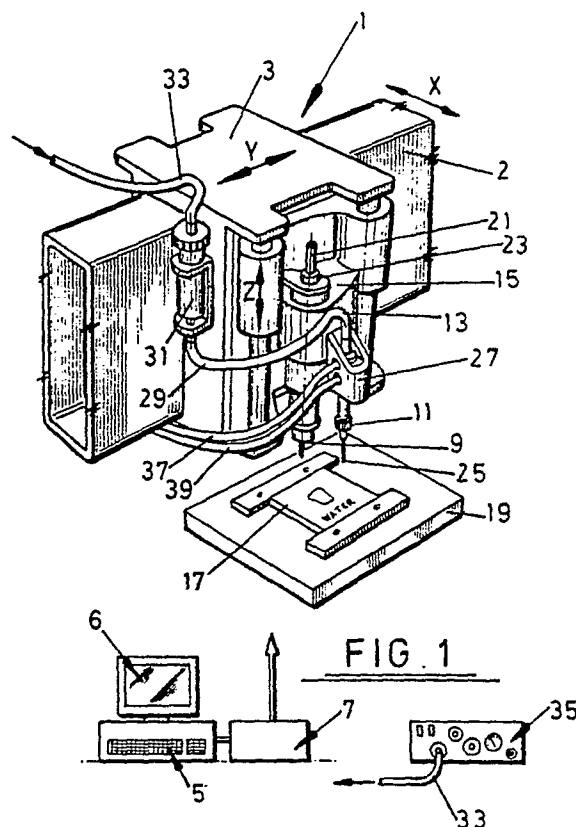
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54 **Marking surfaces.**

57 A marking system for an engraved surface which eliminates hand filling, comprising a dispenser (11, 71) for a flowable marker material which is driven to traverse the engraving, and a controller (5, 6, 7, 35) for the amount and timing of material delivered. The dispenser is carried by a computer controlled X-Y-Z coordinate type machine and a computer program controls movement of the dispenser to traverse the engraving and also a pressure/vacuum controller (35) for material delivery via the dispenser in to the engraving.

The dispenser is paired physically with an engraving tool (a) relative to a single head system of the X-Y-Z coordinate machine whereby engraving and filling are implemented within the same equipment with related program. The dispenser is constructed as a floating head to eliminate variations in work surface heights.

Engraving and filling of multiple workpieces in one loading is accommodated by use of a locating jig and appropriate program structure.





DOCUMENTS CONSIDERED TO BE RELEVANT			EP 88304987.6
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
A	<u>DE - B2 - 2 104 926</u> (SKF KUGELLAGERFABRIKEN GMBH) * Fig. 1 * --		B 44 B 3/00 B 44 F 11/00 B 44 C 1/22
A	<u>CH - A - 261 243</u> (BIEDERMANN) * Totality * ----		
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			B 41 C 1/00 B 41 K 1/00 B 41 K 3/00 B 44 B 3/00 B 44 B 11/00 B 44 C 1/00 B 44 F 11/00
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
VIENNA		16-11-1989	CZUBA
CATEGORY OF CITED DOCUMENTS 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 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 & : member of the same patent family, corresponding document			