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(71) Applicant: NORDSON CORPORATION
Westlake,
Ohio 44145-1119 (US)

(72) Inventors:
• Colangelo, Paul K.
Lawrenceville,
Georgia 30044 (US)

- Petrecca, Peter J.
Dunwoody,
Georgia 30044 (US)
- Ramspeck, Alan
Cumming,
Georgia 30040 (US)
- Walker, Michael
Smyrna, Georgia 30080 (US)

(74) Representative: Findlay, Alice Rosemary
Lloyd Wise
Commonwealth House,
1-19 New Oxford Street
London WC1A 1LW (GB)

(54) Dispensing apparatus for viscous liquids

(57) Apparatus (10) for dispensing viscous liquid, such as hot melt adhesive, includes a manifold (14) and a dispensing module (12). A valve includes a valve seat (107) having an orifice (106) and a sealing surface located around the orifice (106). The valve further includes a valve stem (108) movable between open and closed positions and having a recess (264) in one end and a sealing edge (266) located around the recess (264) (fig. 6A). A valve module (280) includes an integrated heating element (296) for providing localized heat to the adhesive immediately prior to dispensing (fig. 7).

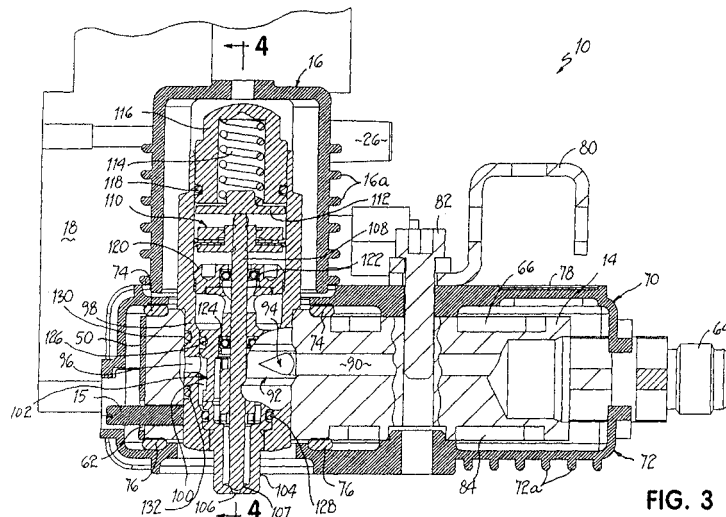


FIG. 3



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The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC)
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Place of search		Date of completion of the search	Examiner
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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	

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EPC FORM 1503 03 82 (P04/C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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