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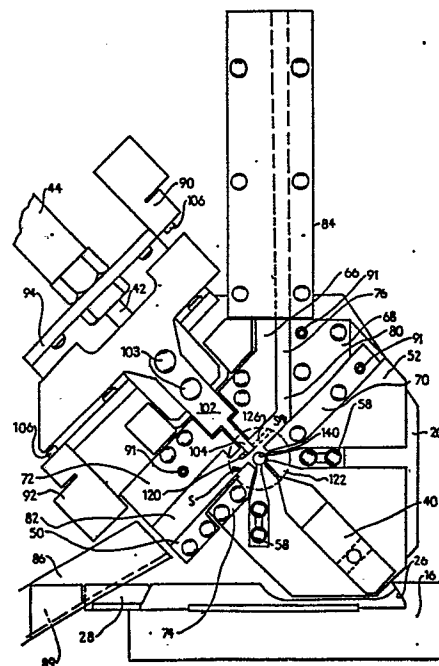
84 Designated Contracting States: **BE CH DE FR GB IT LI**

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54 **Loader apparatus for machine with a magnetic workpart driver.**

57 A loader apparatus (10) for a machine having magnetic workpart driver means (14) includes a support plate (23) with an access opening to receive the driver means (14) and a workpart track (80) with a load portion (76) and unload portion (82). The apparatus also includes an injector/ejector means (102, 40) slidably mounted on the support plate (23) intersecting the load/unload track. The injector/ejector means (102, 40) conveys a workpart (W) from the load portion (76) of the track (80) to the driver means (14) and then back to the track for discharge through the unload portion (82). The track (80) is located in non-overlapping relation to the driver means (14) to reduce residual magnetic forces on the workpart (W) during removal from the driver means (14) and discharge through the unload portion (82) of the track (80). A fluid passage (126) is provided in communication with the track (80) to emit a fluid stream into the track toward the unload portion (82) thereof to facilitate workpart discharge.





| 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. ³) |
| X,A | US-A-2 927 406 (TERP) * Column 1, line 57 - column 2, line 59; column 3, line 53 - column 4, line 10; figures 1-4 * | 1,3,4 | B 24 B 41/00 |
| X | --- DE-A-2 705 634 (SEIKO SEIKI KK) * Pages 4-6; figure 1 * | 1,2 | |
| A | --- US-A-2 723 499 (DIX) * Figures 1, 2 * | 1,3 | |
| A | --- US-A-2 706 369 (DIX) * Figures 1-3 * | 1,3 | |
| A | --- GB-A-1 394 434 (NEWALL ENGINEERING CO. LTD.) * Page 3, lines 12-21; page 4, lines 119-121 * | 5,6 | TECHNICAL FIELDS SEARCHED (Int. Cl. ³) |
| A | --- US-A-3 972 148 (BEAUCHET et al.) * Figures 1, 2 * | 1 | B 24 B 19/06 B 24 B 41/00 |
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| The present search report has been drawn up for all claims | | | |
| Place of search BERLIN | | Date of completion of the search 09-07-1984 | Examiner MARTIN A E W |
| 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 | |

