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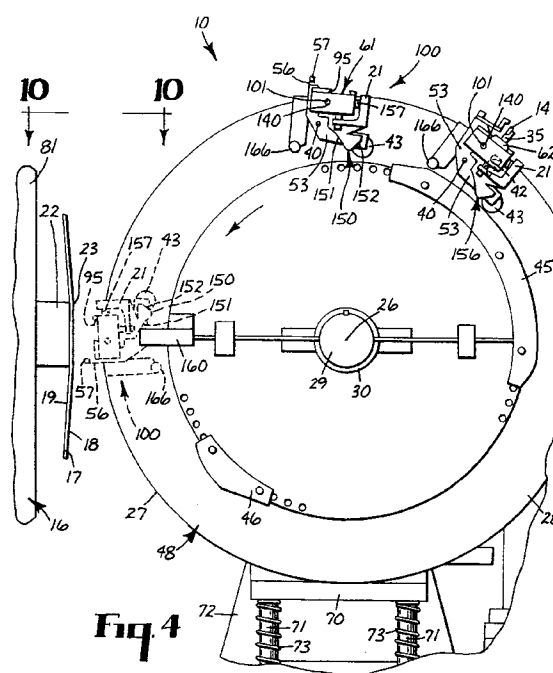
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(54) **Belt grinding assembly having pivoting means.**

(57) The belt grinding assembly (10) according to the present invention includes (a) a frame (b) a belt grinding mechanism comprising a continuous abrasive belt (17) having a backing with front and rear surfaces, and abrasive granules attached along the front surface; a mechanism for driving the abrasive belt in a first direction along a path relative to the frame; (c) a backup (22) having a support surface (23) for the belt along the path; which support surface is straight in the first direction and has a uniform shape corresponding to the shape of the edge surface in a direction at a right angle to the first direction; (d) a wheel (28) having a periphery (27), a wheel axis (26) at a right angle to the first direction; a mechanism mounting the wheel on the frame for rotation about the wheel axis; drive mechanism (69,70) for rotating the periphery of the wheel past a loading station (33) relative to the frame, and then past the support surface (23) at a uniform rate of speed and in a first rotational direction; and (e) a plurality of pivoting object holder assemblies (100) including an engagement mechanism for releasably engaging and holding an object (12) along the radially outward side.





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# EUROPEAN SEARCH REPORT

Application Number

EP 92 30 3314

| 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.5) |
| D,Y                                                                                                                                                                                                                     | EP-A-0 400 901 (MINNESOTA MINING)                                             | 1,2,7-9, 11-13,18                                                                                                                                                                                                                                                                     | B24B21/16<br>B24B27/00<br>B24B21/00           |
| A                                                                                                                                                                                                                       | * abstract; figure 3 *                                                        | 5,6,16, 17                                                                                                                                                                                                                                                                            |                                               |
|                                                                                                                                                                                                                         | ---                                                                           |                                                                                                                                                                                                                                                                                       |                                               |
| Y                                                                                                                                                                                                                       | DE-A-643 011 (KELM & DANIEL GMBH)                                             | 1,2,7-9, 11-13,18                                                                                                                                                                                                                                                                     |                                               |
| A                                                                                                                                                                                                                       | * page 2, line 73 - line 80; figures 4-7 *                                    | 3,4,14, 15                                                                                                                                                                                                                                                                            |                                               |
|                                                                                                                                                                                                                         | ---                                                                           |                                                                                                                                                                                                                                                                                       |                                               |
| A                                                                                                                                                                                                                       | US-A-2 156 453 (A. HAMILTON)                                                  | 1-3, 11-14                                                                                                                                                                                                                                                                            |                                               |
|                                                                                                                                                                                                                         | * page 2, line 42 - line 52 *                                                 |                                                                                                                                                                                                                                                                                       |                                               |
|                                                                                                                                                                                                                         | * page 3, line 50 - line 65 *                                                 |                                                                                                                                                                                                                                                                                       |                                               |
|                                                                                                                                                                                                                         | * page 6, line 43 - line 46; figures 2,8 *                                    |                                                                                                                                                                                                                                                                                       |                                               |
|                                                                                                                                                                                                                         | -----                                                                         |                                                                                                                                                                                                                                                                                       |                                               |
| The present search report has been drawn up for all claims                                                                                                                                                              |                                                                               |                                                                                                                                                                                                                                                                                       | TECHNICAL FIELDS SEARCHED (Int. Cl.5)         |
|                                                                                                                                                                                                                         |                                                                               |                                                                                                                                                                                                                                                                                       | B24B                                          |
| Place of search                                                                                                                                                                                                         | Date of completion of the search                                              | Examiner                                                                                                                                                                                                                                                                              |                                               |
| THE HAGUE                                                                                                                                                                                                               | 10 NOVEMBER 1992                                                              | VIBERG S.O.                                                                                                                                                                                                                                                                           |                                               |
| CATEGORY OF CITED DOCUMENTS                                                                                                                                                                                             |                                                                               | T : theory or principle underlying the invention<br>E : earlier patent document, but published on, or after the filing date<br>D : document cited in the application<br>L : document cited for other reasons<br>.....<br>& : member of the same patent family, corresponding document |                                               |
| X : particularly relevant if taken alone<br>Y : particularly relevant if combined with another document of the same category<br>A : technological background<br>O : non-written disclosure<br>P : intermediate document |                                                                               |                                                                                                                                                                                                                                                                                       |                                               |

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