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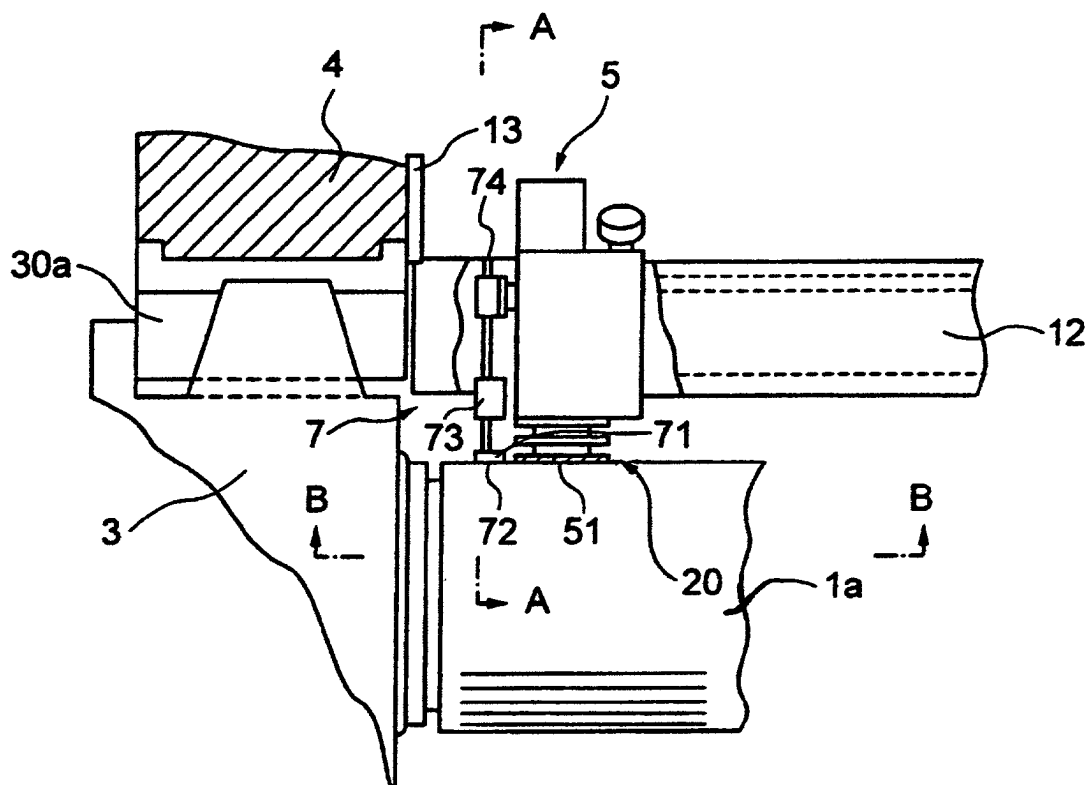
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(54) **On-line roll grinding method and apparatus as well as rolling mill using the same**

(57) An on-line roll grinding apparatus which includes a grinding unit (5) having a rotatable rotary grindstone (20) for on-line grinding a rolling roll (1a) and a

roughness adjusting unit (7) capable of adjusting A surface roughness of the rolling roll (1a), and which can adjust the surface roughness of the rolling roll (1a) in AN on-line roll grinding.





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# EUROPEAN SEARCH REPORT

Application Number  
EP 01 11 8859

| 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.7) |
| X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | US 5 954 565 A (KONDOH SHIGETOSHI ET AL)<br>21 September 1999 (1999-09-21)<br>* column 2, line 6 - column 8, line 43;<br>figures 1,28,29 *                               | 1,2,11                                              | B24B5/16                                     |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                          |                                                     | B24B                                         |
| The present search report has been drawn up for all claims                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                          |                                                     |                                              |
| Place of search<br>MUNICH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                          | Date of completion of the search<br>23 October 2003 | Examiner<br>Koller, S                        |
| <p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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/>&amp; : member of the same patent family, corresponding document</p> |                                                                                                                                                                          |                                                     |                                              |

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
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