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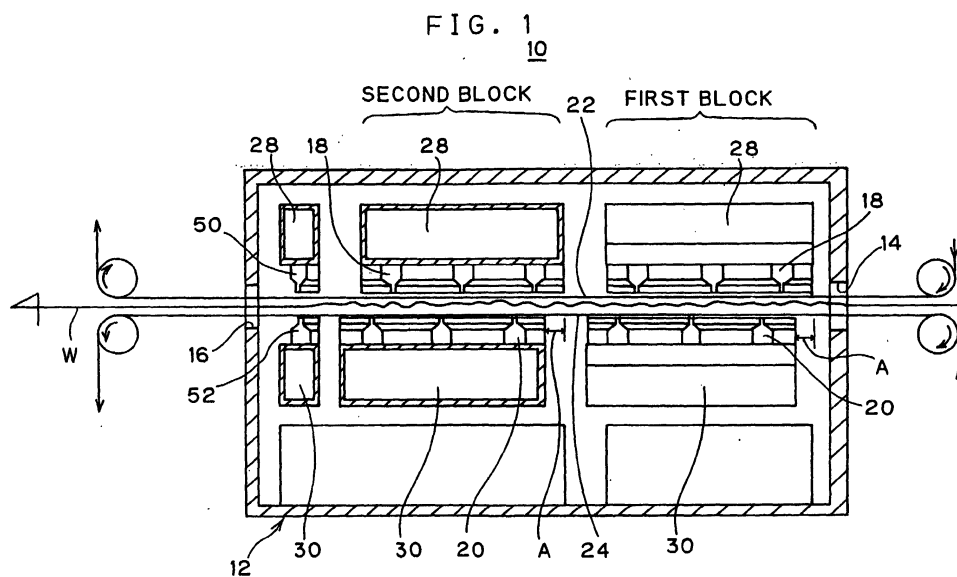
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(54) **Web heat treatment apparatus**

(57) A rubbing effect is imparted to a long or continuous web (W) not only in its lengthwise direction but also in its widthwise direction. A heat treatment apparatus comprises: a pair of upper and lower conveyer nets (22, 24) adapted to run in a front-back-wise direction in a heat-treatment chamber (12); upper and lower nozzles (18, 20) provided above and below of these conveyer

nets (22, 24); upper blow-off ports (47) of the upper nozzles (18) being disposed obliquely relative to a widthwise direction of the web (W); and lower blow-off ports (46) for hot air blasting from the lower nozzles (20) being disposed obliquely relative to the widthwise direction of the web (W) and in same time relative to the upper blow-off ports (47).





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## EUROPEAN SEARCH REPORT

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| Place of search<br>The Hague                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                          | Date of completion of the search<br>20 July 2004 | Examiner<br>D'Hulster, E                     |
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# EUROPEAN SEARCH REPORT

Application Number  
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| DOCUMENTS CONSIDERED TO BE RELEVANT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                               |                                  |                                              |
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