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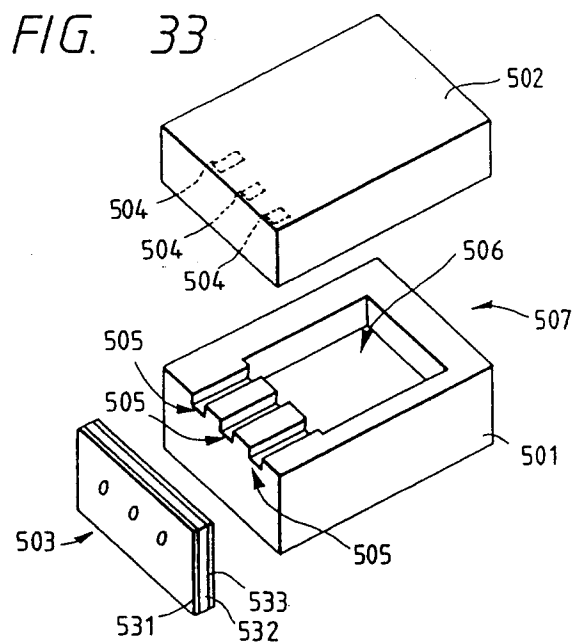
(54) **Ink jet head and manufacturing method thereof, discharge opening plate for head and manufacturing method thereof, and ink jet apparatus with ink jet head.**

(57) A discharge opening plate (503) for an ink jet recording head comprises a plate (503) having a

through hole forming a discharge opening, a water repellent cover layer (531) on one surface of the

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plate and an adhesive layer (533) provided on its other surface. An ink jet recording head may be manufactured by adhering this plate (503) to a head body (507) having an ink path arranged to correspond to the through hole opening.





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## EUROPEAN SEARCH REPORT

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| 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)            |
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| The present search report has been drawn up for all claims                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                               |                                                  |                                                         |
| Place of search<br>THE HAGUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                               | Date of completion of the search<br>17 June 1994 | Examiner<br>Joosting, T                                 |
| <b>CATEGORY OF CITED DOCUMENTS</b><br>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<br>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>& : member of the same patent family, corresponding document |                                                                                                                                                                                                               |                                                  |                                                         |