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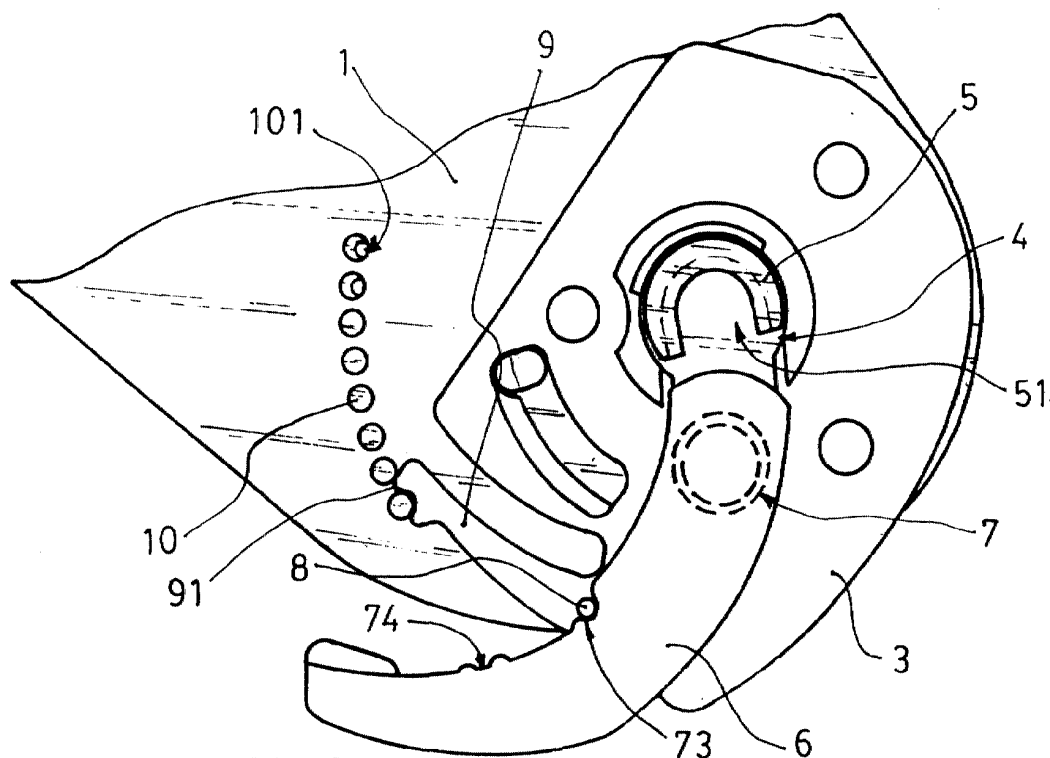
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(54) **A system to attach a transparent visor onto a helmet**

(57) This device includes two support plates (3) fixed onto the sides of the helmet (2), and have two openings (4) to introduce the pivots (5) located on the internal face of the transparent visor (1); devices to hold the pivots (5), which can turn within the openings (4) of

the support plates (3), and devices to hold the visor (1) at the lower or upper position; the pivots (5) with a cylindrical section and its side opening (51), the free end of which aligns with a rim (52), orientated towards the inside of the pivot; this pivot (5) having an inside diameter smaller than the cylindrical section.



**Fig. 2**



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# EUROPEAN SEARCH REPORT

Application Number  
EP 00 50 0121

| 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   | PATENT ABSTRACTS OF JAPAN<br>vol. 1998, no. 09,<br>31 July 1998 (1998-07-31)<br>-& JP 10 110320 A (KOSHIN CROWN:KK),<br>28 April 1998 (1998-04-28)<br>* abstract; figures * | 1, 3, 8, 9                       | A42B3/22                                     |
| A   | EP 1 000 558 A (HONG JIN CROWN<br>CORPORATION) 17 May 2000 (2000-05-17)   |                                  |  |
| D, A  | EP 0 471 906 A (SHOEI KAKO KABUSHIKI<br>KAISHA) 26 February 1992 (1992-02-26)   |                                  |  |
|   |   |                                  | TECHNICAL FIELDS<br>SEARCHED (Int.Cl.7)      |
|   |   |                                  | A42B   |
| The present search report has been drawn up for all claims  |   |                                  |  |
| Place of search   |   | Date of completion of the search | Examiner                                     |
| THE HAGUE   |   | 7 December 2000                  | Bourseau, A-M                                |
| <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  
ON EUROPEAN PATENT APPLICATION NO.**

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on  
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07-12-2000

| Patent document<br>cited in search report | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
|---|---------------------|----------------------------|---------------------|
| JP 10110320 A                             | 28-04-1998          | NONE                       |                     |
| EP 1000558 A                              | 17-05-2000          | NONE                       |                     |
| EP 0471906 A                              | 26-02-1992          | JP 4100910 A               | 02-04-1992          |
|   |                     | CA 2031991 A               | 21-02-1992          |
|   |                     | KR 9210986 B               | 26-12-1992          |