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⑧4 Designated Contracting States :  
AT BE CH DE DK ES FR GB LI NL

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**12.05.93 Bulletin 93/19**

⑤4 **Multipurpose matchable shoulder strap for shoulder carriers.**

57) A shoulder strap consisting of a simple or wadded band (1) having a connector element (22,24) on either end (14,16) which may rapidly be connected and disconnected to other complementary element for interengagement with belts (64) or cables (3) of different kinds, e.g. Fig. 4 (6, 7, ), in order to realize different types of shoulder carriers which permit to held objects hooking them to whichever carrier belts (64) or cables (3) joined to the shoulder strap. Joining with fixed or removable junctions two shoulder straps to one or more cross-pieces, one has the possibility of realizing different ways of transportation on both shoulders, so as to leave one's hands free.

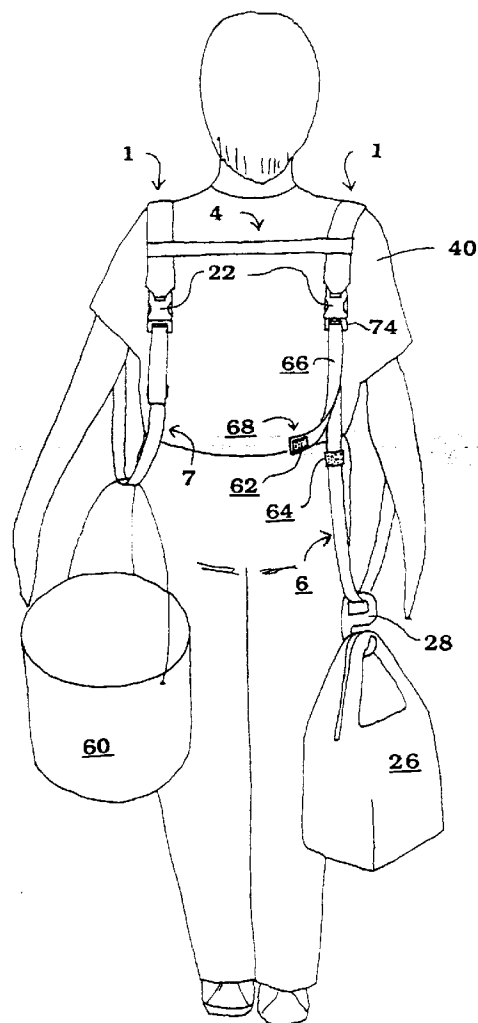


FIG. 4



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# EUROPEAN SEARCH REPORT

Application Number

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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) |
| X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | US-A-4 785 984 (SEITZ-GANGEMI)<br>* column 1, line 64 - column 2, line 17; figures; column 2, line 30 - line 55 *  | 1,4,6,7                                        | A 45 F 3/14<br>A 45 C 13/30                   |
| X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | DE-U-8 909 078 (DÖRING)<br>* the whole document *                                                                  | 1                                              |                                               |
| Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ---                                                                                                                | 2,3                                            |                                               |
| Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | EP-A-0 229 699 (HECKERMAN)<br>* column 4, line 50 - line 62; figures 1,2; column 10, line 8 - line 22; figure 14 * | 2,3                                            |                                               |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | US-A-4 804 025 (BEAR)<br>* column 2, line 55 - column 3, line 37; figures *                                        | 5,11,12                                        |                                               |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | US-A-4 962 873 (SCHATTEL)<br>* column 2, line 55 - column 3, line 9; figure 3 *                                    | 8,11                                           |                                               |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | DE-A-3 443 828 (ROTH)<br>* column 3, line 14 - line 27; figure *                                                   | 9,10                                           | TECHNICAL FIELDS<br>SEARCHED (Int. Cl.5)      |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | US-A-4 768 689 (DAVIS)<br>* column 3, line 29 - column 4, line 5; figures 1,5 *                                    | 14                                             | A 45 F<br>A 45 C                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ---<br>-/-                                                                                                         |                                                |                                               |
| The present search report has been drawn up for all claims                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                    |                                                |                                               |
| Place of search<br>THE HAGUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                    | Date of completion of the search<br>03-11-1992 | Examiner<br>ECCETTO M                         |
| <p><b>CATEGORY OF CITED DOCUMENTS</b></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/>.....<br/>&amp; : member of the same patent family, corresponding document</p> |                                                                                                                    |                                                |                                               |

EPO FORM 1503 03.82 (P0401)



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### CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claims:
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

### LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions, namely:

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- ☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☒ None of the further search fees has been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims,

namely claims: 1-12,15 and 14,17 as far as related to claim 1



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## EUROPEAN SEARCH REPORT

Application Number

EP 92 83 0373

| 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) |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | US-A-4 033 488 (BREWER)<br>* figure 4 *<br>-----                              | 15                                             |                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                               |                                                | TECHNICAL FIELDS SEARCHED (Int. Cl.5)         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                               |                                                |                                               |
| The present search report has been drawn up for all claims                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                               |                                                |                                               |
| Place of search<br>THE HAGUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                               | Date of completion of the search<br>03-11-1992 | Examiner<br>ECCETTO M                         |
| <p><b>CATEGORY OF CITED DOCUMENTS</b></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</p> <p>.....<br/> &amp; : member of the same patent family, corresponding document</p> |                                                                               |                                                |                                               |

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EP 92 83 0373 -B-

**LACK OF UNITY OF INVENTION**

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims 1-12,15 + (14,17 as far as related to claim 1):  
Shoulder strap assembly-carrying apparatus
2. Claims 13,16 + (14,17 as far as related to claims 13 and 16):  
Connector means