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(11)

EP 0 813 839 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
03.02.1999 Bulletin 1999/05

(51) Int Cl.⁶: **A47L 9/14**

(43) Date of publication A2:
29.12.1997 Bulletin 1997/52

(21) Application number: **97850091.6**

(22) Date of filing: **10.06.1997**

(84) Designated Contracting States:
**AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC
NL PT SE**

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(30) Priority: **19.06.1996 SE 9602422**

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(54) Method for producing an end closure for a vacuum cleaner dust bag

(57) This invention relates to a method for producing an end closure for a vacuum cleaner dust bag by manufacturing in a first stage a tube shaped work piece comprising an outer layer and one or several lined layers. The work piece is in a second stage severed mainly perpendicular to the length direction of the tube shaped work piece and the outer layer is (16a) in connection with said severing operation is provided with one or several cuts or recesses extending from the cut edge in or

der to form a flap (26). In a third stage parts of the end area of the work piece are successively folded inwardly and in connection therewith the lined layer or layers (16b) are folded inwardly or are removed within a portion of the area defined by the flap in order to uncover a part of the inwardly facing side (area 27) of the outer layer. The flap is then provided with glueing material on the uncovered surfaces and is arranged to overlap at least one of the the remaining inwardly folded end areas of the work piece.

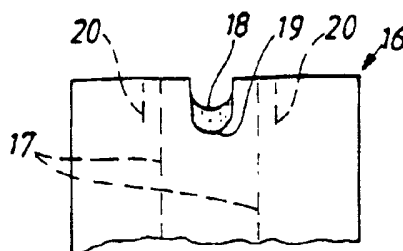


Fig. 2a

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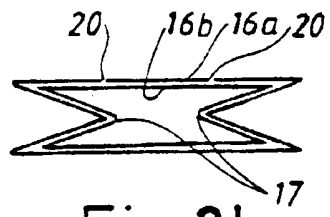


Fig. 2b

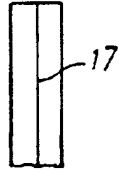


Fig. 2c



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EUROPEAN SEARCH REPORT

Application Number
EP 97 85 0091

| 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.6) |
| A | US 4 322 259 A (FESCO JOHN E) 30 March 1982 * claim 1; figures * --- | 1 | A47L9/14 |
| A | GB 1 506 577 A (DRG LTD) 5 April 1978 * the whole document * --- | 1 | |
| A | US 3 276 192 A (FESCO) 4 October 1966 * the whole document * --- | 1 | |
| A | US 3 738 091 A (FESCO J) 12 June 1973 * the whole document * --- | 1 | |
| A | US 3 330 100 A (FESCO) 11 July 1967 * the whole document * --- | 1 | |
| A | US 2 792 076 A (MEYERHOEFER) 14 May 1957 * the whole document * ----- | 1 | |
| The present search report has been drawn up for all claims | | | TECHNICAL FIELDS SEARCHED (Int.Cl.6) |
| | | | A47L |
| Place of search | | Date of completion of the search | Examiner |
| THE HAGUE | | 14 December 1998 | Madsen, P |
| CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document | | | |

EPO FORM 1503 03/82 (P04/C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 97 85 0091

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The members are as contained in the European Patent Office EDP file on
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14-12-1998

| Patent document cited in search report | | Publication date | Patent family member(s) | Publication date |
|---|---|---------------------|----------------------------|---------------------|
| US 4322259 | A | 30-03-1982 | US 4240813 A | 23-12-1980 |
| GB 1506577 | A | 05-04-1978 | NONE | |
| US 3276192 | A | 04-10-1966 | NONE | |
| US 3738091 | A | 12-06-1973 | NONE | |
| US 3330100 | A | 11-07-1967 | NONE | |
| US 2792076 | A | 14-05-1957 | GB 766086 A | |
| | | | US 2848062 A | 19-08-1958 |
| | | | US 2848063 A | 19-08-1958 |