(54) Title: IMPROVEMENT TO HOSE USED TO INSTALL LOOSE FILL INSULATION

An improved hose is used to install loose fill insulation. The hose includes projections (140) extending from an inner surface which serve to condition the insulation as it proceeds through the hose and is dispensed. In a first embodiment of the present invention, the projections are formed so as to be perpendicular to a longitudinal axis of the hose. In a second embodiment of the present invention, the projections (140) are formed so as to be angled, by an angle less than ninety (90) degrees with respect to the longitudinal axis of the hose. In a third embodiment of the present invention, the projections (141) are formed with a serrated edge. In a fourth embodiment of the present invention, the projections (142) are formed as part of a cap member which is disposed around the periphery of the hose.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : F16L 11/11
US CL : 138/129

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 138/129, 144, 121, 122, 37, 39; 366/366, 340; 239/142, 524, 498, 302, 500-502

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database consulted during the international search (name of database and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
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<tbody>
<tr>
<td>X</td>
<td>US 4,303,104 A (HEGLER et al) 01 December 1981, fig. 4.</td>
<td>1, 2, 4, 7, and 29</td>
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<td>Y</td>
<td></td>
<td>3, 12, 13-15 and 17</td>
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<td>X</td>
<td>US 4,435,460 A (MENZEL) 06 March 1984, entire document.</td>
<td>10 and 11</td>
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<tr>
<td>A</td>
<td>US 4,976,289 A (UMEMORI et al) 11 December 1990, entire document.</td>
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<td>A</td>
<td>US 4,121,624 A (CHEN) 24 October 1978, entire document.</td>
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[X] Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:
* A* document defining the general state of the art which is not considered to be of particular relevance
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* O* document referring to an oral disclosure, use, exhibition or other means
* P* document published prior to the international filing date but later than the priority date claimed

Date of the actual completion of the international search: 14 SEPTEMBER 2000

Date of mailing of the international search report: 13 OCT 2000

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<td>A</td>
<td>US 3,112,771 A (BRINGOLF) 03 December 1963, entire document.</td>
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<td>A</td>
<td>US 4,337,800 A (CARLSON et al) 06 July 1982, entire document.</td>
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