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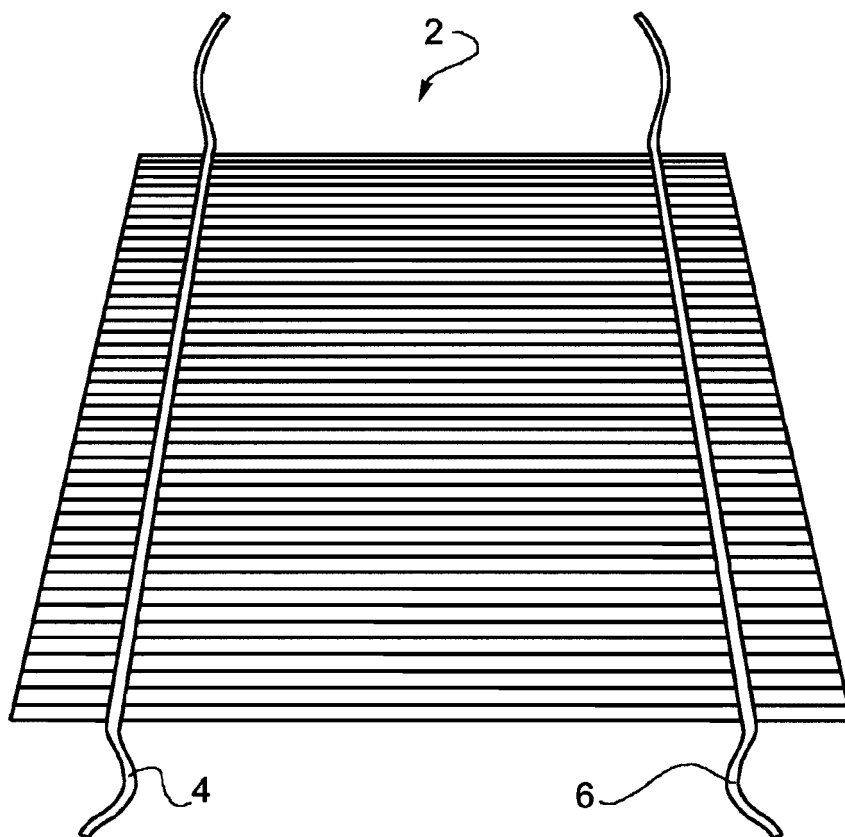
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(54) **Flexible sheet incorporating binding means**

(57) A flexible sheet (2) of plastics material comprising at least one binding means (4, 6) is described; this binding means (4, 6) may for example be a band.



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Description

Claims

[0001] This invention relates to a flexible impact- and/or scratch-resistant sheet providing protection against atmospheric agents and rusting and corrosion. 5

[0002] During the transport and storage of various types of materials and/or products it may be necessary to protect those products either from damage caused by impacts or scratching, or, from the chemical point of view, it may for example be necessary to provide protection against corrosion caused by vapours, condensation, or even sunlight (atmospheric agents in general) or chemical agents such as oils, greases, soaps, solvents, etc.. 10

[0003] The object of this invention is to provide a sheet suitable for wrapping materials or products in such a way as to ensure that those products are protected against damage of the aforesaid type, which incorporates binding means. 15

[0004] This invention accomplishes the abovementioned objects through a flexible sheet of plastics material having the characteristics specifically claimed in the Claims below. 20

[0005] Further features and advantages of this invention will be apparent in the course of the following detailed description, provided purely by way of a non-restrictive example with reference to the appended drawing in which 2 indicates, as a whole, the sheet to which this invention relates. 25

[0006] Sheet 2 comprises a pair 4, 6 of binding means (for example bands), positioned along its length and such as to project from the surface of sheet 2. 30

[0007] When in use, sheet 2 is wrapped around the object requiring protection and then fixed thereto through connecting the free parts of binding means 4, 6.

[0008] Sheet 2 may be made of plastics material, by extrusion, which may for example be hot extrusion, and subsequent rolling; binding means 4, 6 may be made of one piece with sheet 2 on the rolled side, with the material forming the sheet in a pasty state. 35

[0009] In this case binding means 4, 6 are incorporated into sheet 2. 40

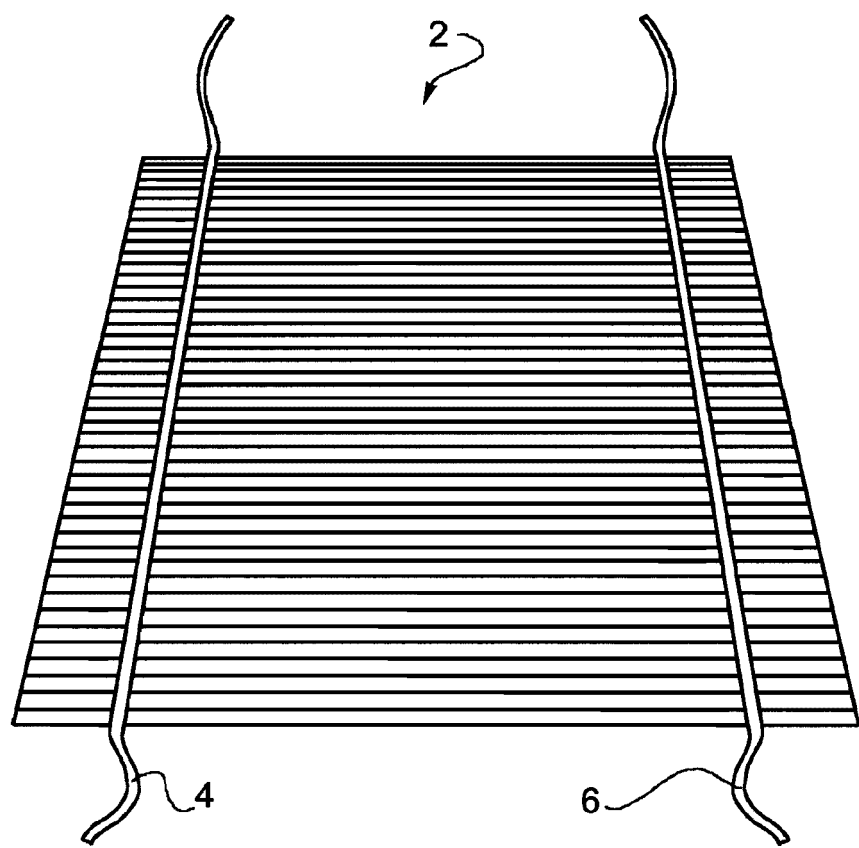
[0010] Alternatively, binding means 4, 6 may be attached thereto by adhesive bonding or hot welding, or other means of attachment.

[0011] A sheet provided with binding means may be advantageously used to wrap for example coils of sheet metal, packs of sheet metal, or other objects in order to protect them from scratching, impact or atmospheric agents. 45

[0012] The advantages of a sheet according to the invention are obvious from what has been described, in that the user already has means incorporated in the sheet for securing it to the object requiring protection. 50

[0013] Of course, without prejudice to the principle of the invention, may variations may be made to what has been described and illustrated without thereby going beyond the scope of protection of the invention. 55

1. Flexible sheet (2) of plastics material, **characterised in that** it comprises at least one binding means (4, 6).
2. Sheet according to Claim 1, **characterised in that** the said binding means (4, 6) comprises for example a band.





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EUROPEAN SEARCH REPORT

Application Number
EP 06 11 2682

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	WO 00/64762 A (LESTER, MATTHEW) 2 November 2000 (2000-11-02) * page 5 - page 7; figures 1-14 *	1,2	INV. B65D65/22
X	CH 488 601 A (KNAUTHE,LOTHAR) 15 April 1970 (1970-04-15) * column 3, line 34 - column 5, line 2; figures 1-5 *	1,2	
X	US 2004/069670 A1 (WEDER DONALD E) 15 April 2004 (2004-04-15) * paragraph [0084] - paragraph [0188]; figures 1-18 *	1,2	
A	DE 297 20 279 U1 (WILSCHREY, EDMUND, 47802 KREFELD, DE) 19 February 1998 (1998-02-19) * page 1 - page 3; figure 1 *	1,2	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC)
			B65D
Place of search		Date of completion of the search	Examiner
Munich		20 July 2006	Augustin, W
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			

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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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20-07-2006

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0064762	A	02-11-2000	AU 4671500 A	10-11-2000
CH 488601	A	15-04-1970	NONE	
US 2004069670	A1	15-04-2004	NONE	
DE 29720279	U1	19-02-1998	NONE	