



(11) **EP 1 783 304 A1**

(12) **EUROPEAN PATENT APPLICATION**

(43) Date of publication:
09.05.2007 Bulletin 2007/19

(51) Int Cl.:
E04H 15/08^(2006.01) E04F 10/06^(2006.01)

(21) Application number: **06119531.9**

(22) Date of filing: **25.08.2006**

(84) Designated Contracting States:
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI
SK TR**
Designated Extension States:
AL BA HR MK YU

(72) Inventors:
• **Wolters, Theodorus Bernardus
2611 NX, Delft (NL)**
• **Dirkse, Maarten Thomas
2563 HD, Den Haag (NL)**

(30) Priority: **26.08.2005 NL 1029818**

(74) Representative: **van Westenbrugge, Andries
Nederlandsch Octrooibureau
Postbus 29720
2502 LS Den Haag (NL)**

(71) Applicant: **LEWENS SONNENSCHUTZ
SYSTEME GMBH & CO. KG
19288 Ludwigslust (DE)**

(54) **Camper awning**

(57) Clamping profile for the fastening of a side screen to a main screen. The main screen is preferably a screen which may be extended outward from a caravan, camper van or the like with bending arms. Secure fastening of the side screen is effected, in accordance with the invention, by receiving a profile at the free end of the side screen. The profile is provided with a fastening con-

struction having a clamping effect, allowing fastening to the main screen to be effected. Fastening is effected over the entire length of the side screen on the main screen. The clamping profile consists of a resilient portion against which a body may be rotatably pressed. The body may comprise a cylinder, lever and the like.

EP 1 783 304 A1

Description

[0001] The present invention relates to a retractable awning - side screen assembly according to the preamble of claim 1.

[0002] DE 20216427 U1 discloses a center profile and a pivotable clamping body. The clamping is effected through depending straight legs having a U-shape engaging U-shaped straight legs. The structure is such that the optimum clamping or pivoting is impossible.

[0003] The invention aims to remove this drawback.

[0004] According to the invention this is realised with a retractable awning - side screen assembly having the features according to claim 1. Through the flexible nature of the engagement of the screen an optimum holding force can be effected.

[0005] According to a preferred embodiment of the invention, because of the curvature of the clamping body and the flexible nature of at least one of the engagement surfaces optimum engagement of the screen is effected. Because of this embodiment improved clamping can be effected on the one hand, whilst because of the possible lower clamping forces, damage to the screen can be avoided.

[0006] If a cylinder is used, the curvature of the cylinder surface will exactly correspond with the radius of the pivoting movement of the clamping face. However, it should be understood that a surface being curved according to the pivot movement of said clamping body includes other embodiments wherein this radius could be somewhat larger and considerably smaller.

[0007] In this case, the radius of curvature of the extremity of the short leg is preferably relatively small, relative to the radius of rotation of the lever.

[0008] According to a preferred embodiment of the invention, the clamping body and more particular the clamping face thereof is relatively rigid, whilst the clamping profile is relatively flexible.

[0009] According to a further preferred embodiment, the clamping face is nearer to the pivot of the clamping body than the corresponding operating lever (long leg) of the clamping body.

surfaces of said clamping profile with said clamping face is flexible to receive said sheet between said clamping body and said engagement surface.

5 **2.** Retractable awning according to claim 1, wherein said clamping face comprises a surface being curved according to the pivot movement of said clamping body.

10 **3.** Retractable awning according to claim 1 or 2, wherein said clamping body comprises a flattened cylinder.

4. Retractable awning-side screen assembly according to one of the preceding claims, wherein said clamping body comprises a lever-shaped body having a short leg comprising said clamping face and having a long leg comprising an engagement surface for operating said lever.

20 **5.** Retractable awning-side-screen assembly according to one of the preceding claims, wherein the clamping body is relatively rigid and the clamping surface of the clamping profile relatively flexible.

25 **6.** Retractable awning-side-screen assembly according to claim 4, wherein the clamping face of the clamping body is nearer to the pivot of the clamping body than the long leg of the clamping profile.

Claims

1. Retractable awning - side screen assembly, said retractable awning comprising a casing in which a roller is rotatably accommodated for receiving and dispensing a flexible sheet, said side screen comprising a side sheet and fastening means for connection to said flexible sheet of said awning in the extended position thereof, said fastening means comprising a clamping profile extending over the length of said side sheet and connected thereto and having an open cavity in which a clamping body is pivotably received, said clamping body having a clamping face, **characterised in that**, one of the engagement

45

50

55

Fig 1

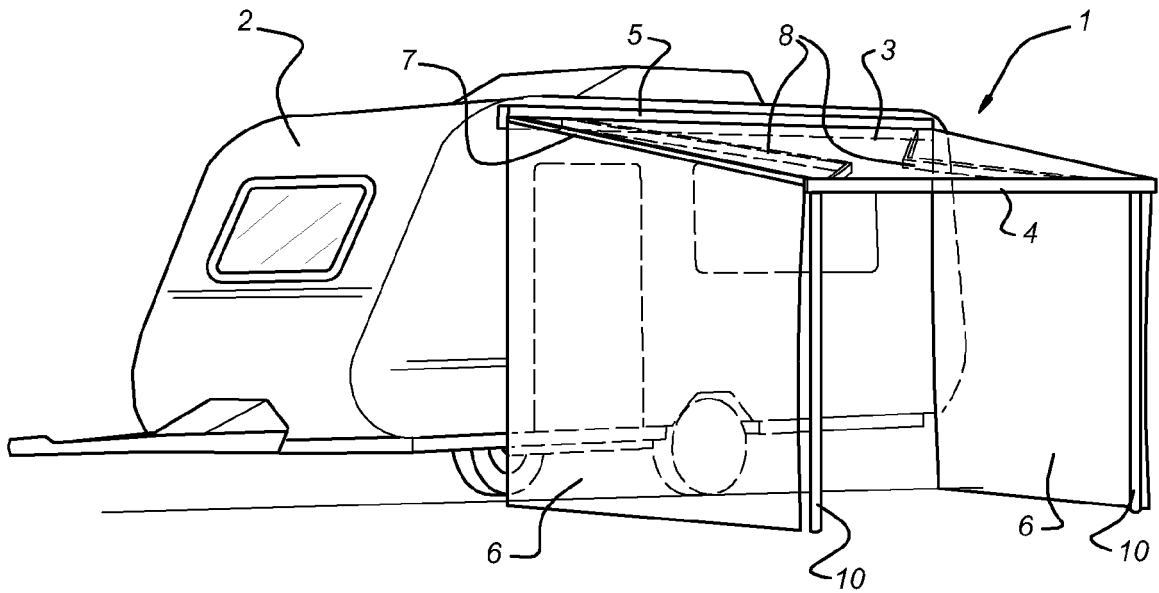


Fig 2a

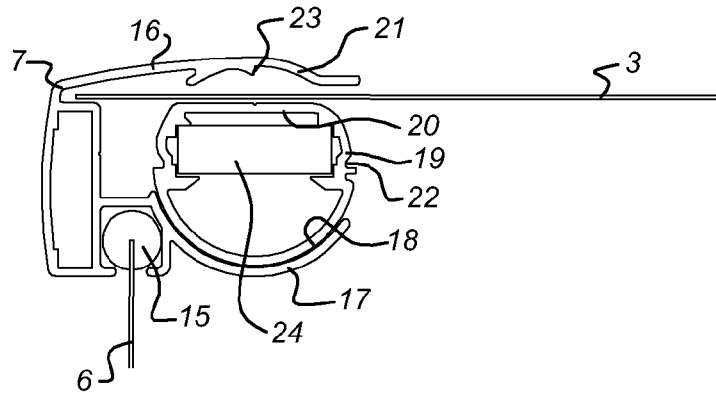


Fig 2b

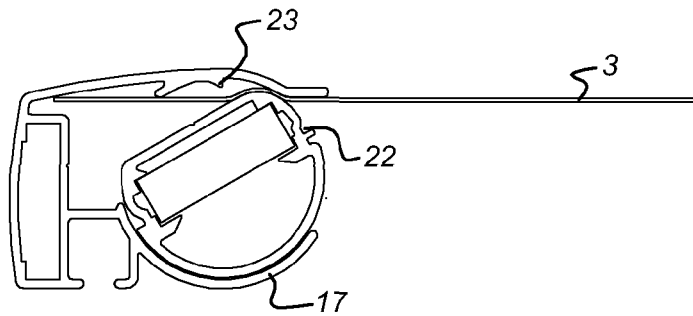


Fig 2c

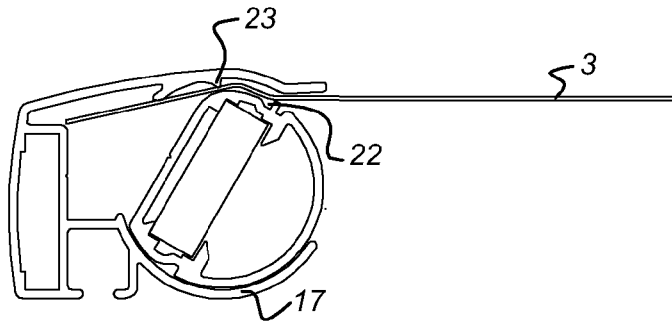


Fig 2d

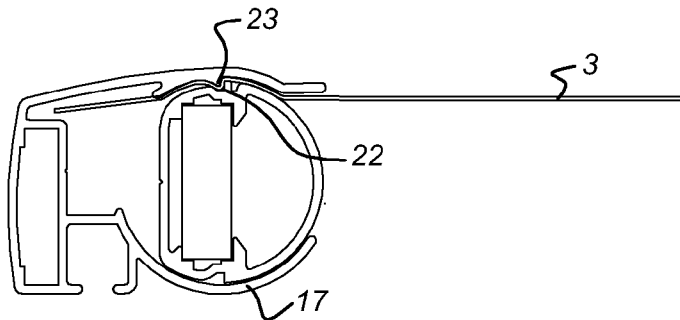


Fig 3

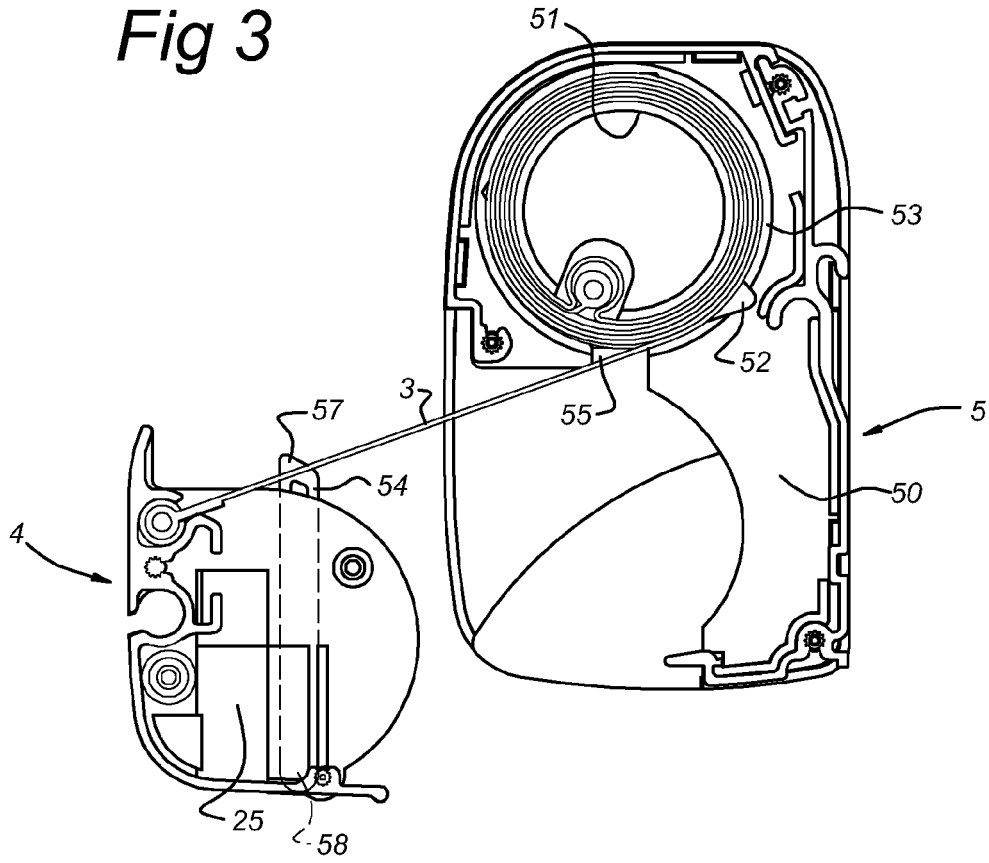


Fig 4

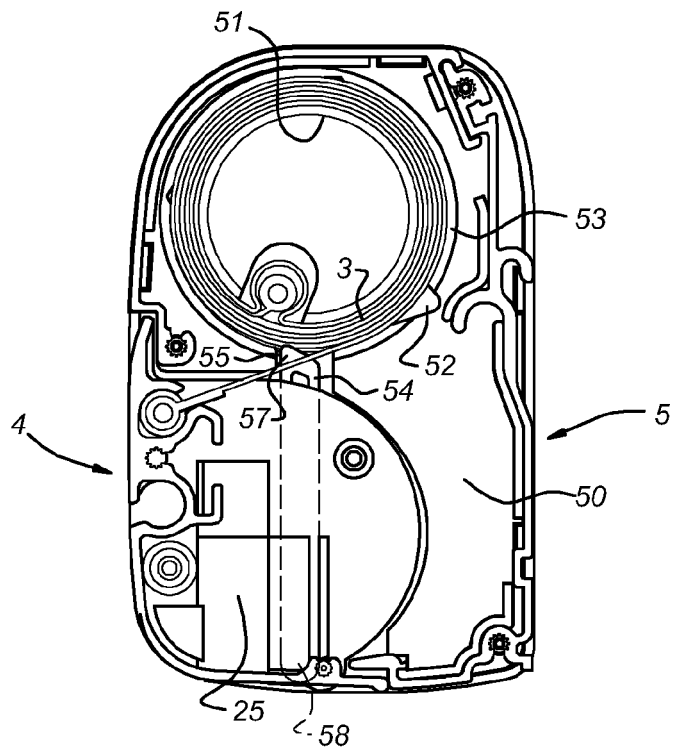


Fig 5

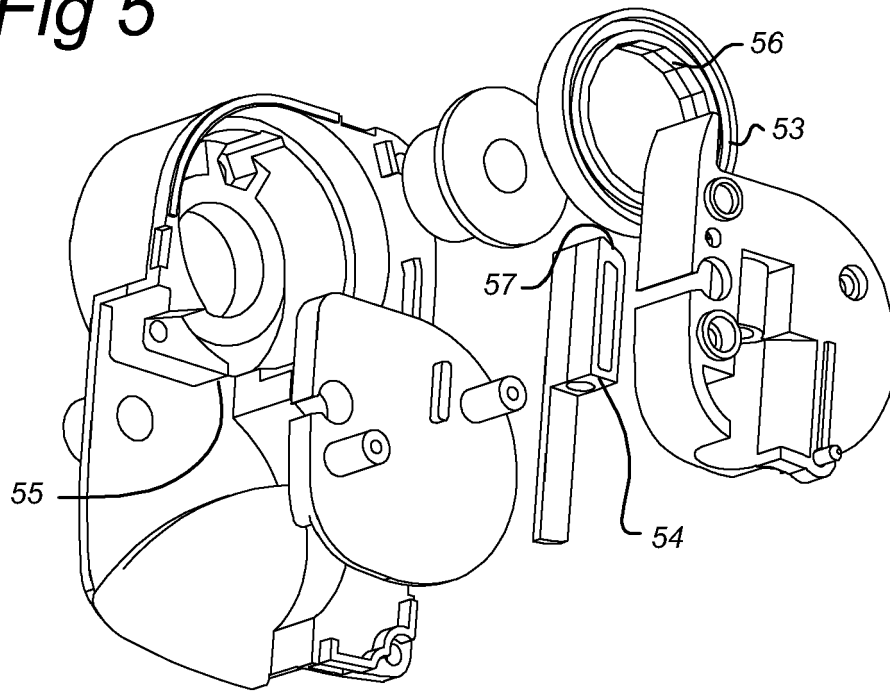


Fig 6

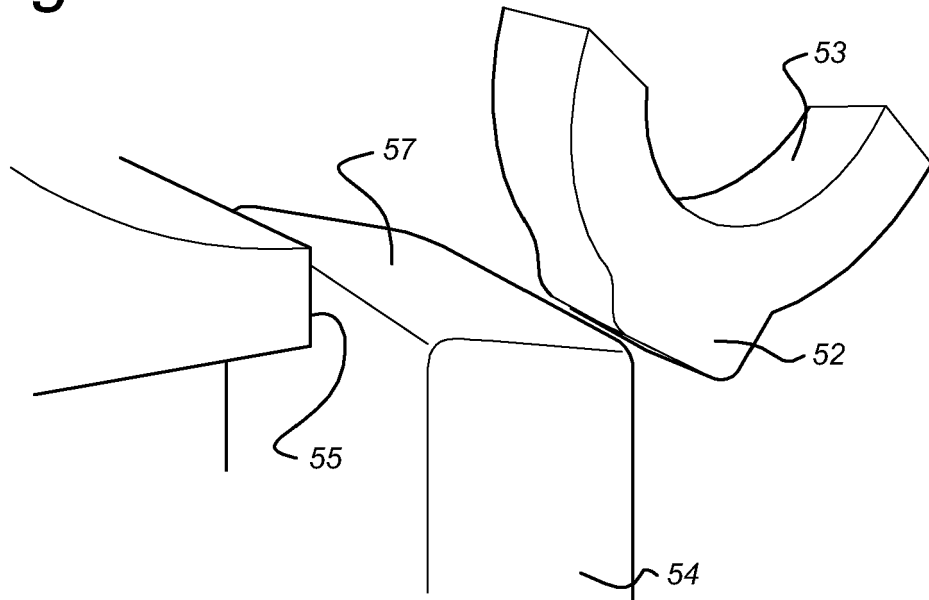


Fig 7a

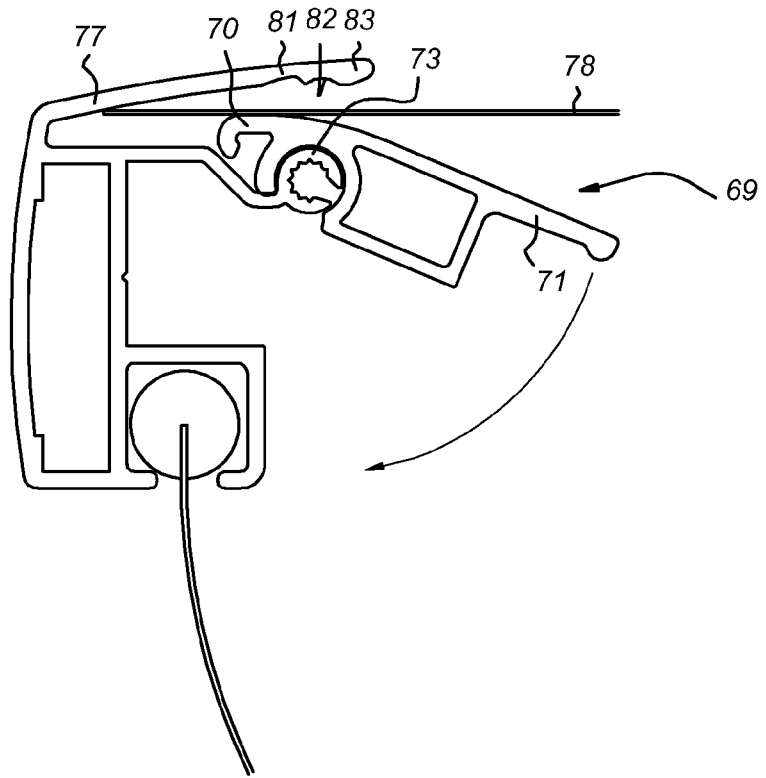
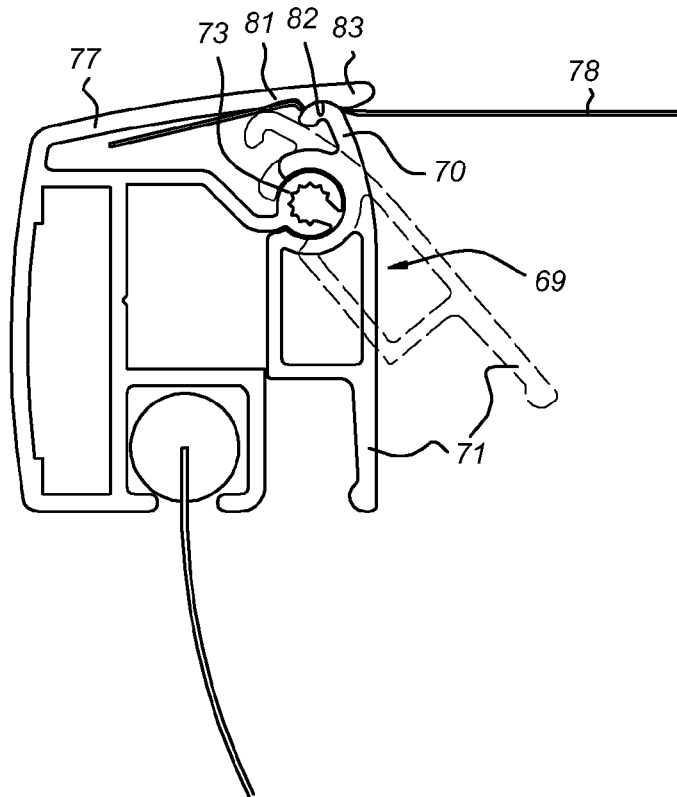


Fig 7b





DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A,D	DE 202 16 427 U1 (HERZOG GMBH & CO KG) 2 January 2003 (2003-01-02) * the whole document *	1	INV. E04H15/08 E04F10/06
A	DE 202 12 998 U1 (POZZI, CARLO MAURIZIO) 19 December 2002 (2002-12-19) * the whole document *	1	
A	DE 101 46 839 A1 (WI-GO GOMOLUCH UND WISCHNEWSKI OHG) 29 May 2002 (2002-05-29) * the whole document *	1	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC)
			E04H E04F
Place of search		Date of completion of the search	Examiner
The Hague		8 February 2007	Delzor, François
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	

4
EPO FORM 1503 03.02 (P04C01)

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

EP 06 11 9531

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
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

08-02-2007

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 20216427	U1	02-01-2003	NONE
DE 20212998	U1	19-12-2002	NONE
DE 10146839	A1	29-05-2002	DE 20016691 U1 31-05-2001

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

REFERENCES CITED IN THE DESCRIPTION

This list of references cited by the applicant is for the reader's convenience only. It does not form part of the European patent document. Even though great care has been taken in compiling the references, errors or omissions cannot be excluded and the EPO disclaims all liability in this regard.

Patent documents cited in the description

- DE 20216427 U1 [0002]