

(19) **DANMARK**



Patent- og
Varemærkestyrelsen

(12)

Oversættelse af europæisk patentskrift

(10) **DK/EP 2519939 T3**

-
- (51) Int.Cl.: **G 09 F 11/02 (2006.01)** **G 09 F 11/29 (2006.01)** **G 09 F 15/00 (2006.01)**
G 09 F 7/18 (2006.01)
- (45) Oversættelsen bekendtgjort den: **2017-01-16**
- (80) Dato for Den Europæiske Patentmyndigheds bekendtgørelse om meddelelse af patentet: **2016-10-12**
- (86) Europæisk ansøgning nr.: **10813370.3**
- (86) Europæisk indleveringsdag: **2010-08-16**
- (87) Den europæiske ansøgnings publiceringsdag: **2012-11-07**
- (86) International ansøgning nr.: **DK2010000116**
- (87) Internationalt publikationsnr.: **WO2011026491**
- (30) Prioritet: **2009-09-01 DK 200900983**
- (84) Designerede stater: **AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR**
- (73) Patenthaver: **MAGSEE GmbH, Siemensstr. 5, 61191 Rosbach, Tyskland**
- (72) Opfinder: **PEDERSEN, Tomas, TP Holding Hadsund ApS, c/o KJ Administration ApS, Ringvejen 8, 9560 Hadsund, Danmark**
- (74) Fuldmægtig i Danmark: **Holme Patent A/S, Valbygårdsvej 33, 2500 Valby, Danmark**
- (54) Benævnelse: **Fremgangsmåde og objekt og anvendelse til at befæstige posters**
- (56) Fremdragne publikationer:
EP-A2- 1 093 106
WO-A1-03/074808
US-A- 4 511 211
US-A1- 2008 005 945
US-A1- 2008 023 605
US-A1- 2008 202 007

DESCRIPTION

[0001] The invention relates to a method for fastening of items such as posters, photos or banners, which in the edge for hanging are provided with a poster hanging bar or rail for an object.

[0002] The invention also relates to an object such as a top fixture or a roll up unit for fastening of items such as posters, photos or banners, which in the edge for hanging are provided with a rail manufactured and produced by a magnetic material such as iron.

[0003] The invention also relates to the application of a method.

[0004] From EP1285421 is known a technique for hanging of items such as posters, which in the edge for hanging are provided with a rail.

[0005] With the known technique, the rail is guided and put into a slit in the side of an object consisting of a roll up unit, whereafter the hanging rail is fixed in a mechanical bed or slit, which is shaped in such a way that it can fix the rail when the poster is rolled up and out.

[0006] It has been found, however, that this known technique involves some drawbacks, including that the poster, which is to be hanged, is easily damaged when it is inserted sideways in a roll up unit through slits in the end surfaces of the roll up unit.

[0007] Moreover, the necessary sideways movement at insertion and removal of posters in the roll up unit is space demanding since the operations demand a total width, which as a minimum corresponds to the poster roll up unit's width and the poster's width.

[0008] This demand for width often limits use of the technique in space-limited applications.

[0009] Furthermore, it has been found that there can be a safety problem with the slit in the side of the poster roll up unit where especially the fingers of children can be stuck.

[0010] From EP 1093106 A2 is furthermore known a roll up unit, which consists of a cylinder, which is on the surface provided with magnets for fastening a poster, which is to be rolled up.

[0011] It has been found, however, that rolling up posters around a cylinder, which has magnets mounted on the surface has drawbacks, including that the poster is deformed at the magnets caused by mechanical pressure from these.

[0012] Document WO 31074808 A is considered the closest prior art.

[0013] It is therefore an object of the invention to improve the known method and object including poster roll up unit and top fixture for fastening items such as posters.

[0014] The object of the invention is achieved by a method of the type stated in the claim 1.

[0015] In this way it thus becomes possible to avoid space-demanding transverse fitting of posters in e.g. poster roll up units.

[0016] The advantage is also achieved that poster roll up units can be produced and manufactured without an open slit in the side whereby the safety risk from this is eliminated.

[0017] As mentioned, the invention also relates to an object according to claim 4.

[0018] Hereby it becomes possible to fit and mount a poster in e.g. a poster roll up unit without application of sideways insertion, whereby the requirements for space to the surroundings in relation to the hitherto known technique is removed.

[0019] Also, the object can be manufactured with closed side surfaces whereby potential safety risks of finger damages are eliminated.

[0020] The invention also relates to the use of method as stated in claim 1 for fastening of items such as posters, photos or

banners for objects including top fixtures or roll up units according to claim 4.

[0021] The invention will now be explained more fully with reference to the drawings, in which:

Fig. 1 shows, seen obliquely from the side, a poster with an edge poster hanging bar, which is to be wound up into a roll up unit, which is provided with magnets, which is placed in a recess in relation to the surface.

Fig. 2 shows, in a cross-section, a poster, equipped with a rail produced by a magnetic material, which is placed and partially rolled up in a poster roll up unit, which is provided with magnets for fastening the poster rail, which is placed in a recess in relation to the surface.

Fig. 3 shows, viewed obliquely from the side, a poster which is rolled up into a poster roll up unit where the poster roll up unit is closed at the ends, and thus does not have a slit that may pose a safety risk.

Fig. 4 shows, viewed obliquely from the side, a poster with a rail manufactured from a magnetic material, which is fastened to magnets built into a top fixture where the magnets are placed in a recess in relation to the surface.

[0022] In fig. 1 is with 1 shown the roll up part of a so-called poster roll up unit.

[0023] The roll up part 1 is internally provided with a spring 6, which powers the roll up.

[0024] Also, the roll up part or unit 1 is enclosed by a preferably circular housing 7, which in the width of the roll up unit is provided with a crevice 4, in which there is placed a number of magnets 5.

[0025] Fig. 1 also shows an item 2, consisting of a poster, photo or a banner, which in a side or an edge is provided with a rail 3, which is manufactured from a magnetic material such as iron.

[0026] The item 2, can by insertion in the roll up unit's crevice 4 be fastened to the roll up unit 1 by magnetic connection between rail 3 and the magnets 5.

[0027] Insertion of the item 2 in the roll up unit 1 can thus occur by a direct connection between the two components without requirement for a preceding sideways movement, which is known from the technique described in EP1285421.

[0028] In fig. 2 is shown a cross section of an object consisting of a poster roll up unit 15, which includes a roll up part 1 mounted in a partially enclosed housing 8, where an item 2 such as a poster is inserted and partially rolled up in the roll up part 1.

[0029] It is furthermore illustrated in fig. 2 that the item 2 is fastened to the roll up part 1 by contact between the rail 3 and the magnet 5, where the force of attachment or connection between the two parts is made possible by magnetic connection.

[0030] Fig. 3 shows an object consisting of a poster roll up unit 15 with a partially rolled up item 2 consisting of e.g. a poster, where it can be seen that the end 10 of the poster roll up unit 15 is closed and is therefore not manufactured with a slit for sideways insertion of posters, as it is known from EP1285421, where the slit among other can pose a potential safety risk for the users.

[0031] In fig. 4 is shown an object consisting of a top fixture 16, which is suitable for hanging of items 2 such as posters where these preferably should hang upright down from an edge of hanging where the hanging edge is provided with a rail 3.

[0032] The rail 3 is manufactured from a magnetic material such as iron and will therefore attach to magnets 5 built into the top fixture in an appropriately shaped mechanical fixture in the top fixture's external material 11, when rail 3 and magnets 5 come close to each other via magnetic connection between rail 3 and magnets 5.

[0033] It is a special and characteristic feature of the invention that the technique is used for fastening items 2 such as posters, photos or banners for objects 15,16 including top fixtures 16 or roll up units 15.

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

- EP1285421A [0004] [0027] [0030]
- EP1093106A2 [0010]
- WO31074808A [0012]

Krav

1. Fremgangsmåde til befæstigelse af emner (2), som posters, fotostater eller bannere, der i ophængningskanten er forsynet med en posterophængningsliste eller -skinne (3) til et objekt (15,16), skinnen (3) er fremstillet af et magnetisk materiale, og objektet (15,16), hvortil emnet (2) skal befæstiges er en topfikstur (16) eller en oprullerenhed (15) forsynet med en eller flere magneter (5) til magnetisk kobling med skinnen (3), og dermed befæstigelse af skinnen (3), hvor magneterne (5) er anbragte i en sprække (4) i forhold til objektets (15,16) overflade
- kendetegnet** ved, at
- posterophængningslisten eller skinnen (3) er indføjet i en åbning, der strækker sig i topfiksturens (16) eller oprullerenhedens (15) længderetning, hvilken langsgående åbning (12) har en tværgående bredde, der er mindre end topfiksturens (16) eller oprullerenhedens (15) tværgående bredde, og befæstigelse af et emne (2) til topfiksturen (16) eller oprullerenheden (15) (15,16) sker ved at lede og føre den magnetiske skinne (3) frem til direkte magnetisk kontakt med magneterne (5).
2. Fremgangsmåde ifølge krav 1, **kendetegnet** ved, at topfiksturen (16) eller oprullerenheden (15) er omsluttet af et hus (7) med et cirkulært tværsnit.
3. Fremgangsmåde ifølge ethvert af kravene 1 eller 2, **kendetegnet** ved, at magneterne (5) er indbygget i en mekanisk fikstur i topfiksturens (16) ydre materiale (11).
4. Topfikstur (16) eller en oprullerenhed (15) til befæstigelse af emner (2), såsom posters, fotostater eller bannere, som i ophængningskanten er forsynet med en

skinne (3) fremstillet af et magnetisk materiale, topfiksturen (16) eller oprullerenheden (15) er forsynet med en eller flere magneter (5), hvortil skinnen (3) kan kobles, hvor magneterne er anbragt i en sprække i forhold til objektets overflade, **kendetegnet** ved, at topfiksturen (16) eller oprullerenheden (15) har en i længderetningen strækkende åbning (12) til indsætning af posterophængningslisten eller -skinnen (3), hvilken langsgående åbning (12) har en tværgående bredde, der er mindre end topfiksturens (16) eller oprullerenhedens (15) tværgående bredde, og befæstigelse af et emne (2) til topfiksturen (16) eller oprullerenheden (15) (15,16) sker ved at lede og føre den magnetiske skinne (3) til direkte magnetisk kontakt med magneterne (5).

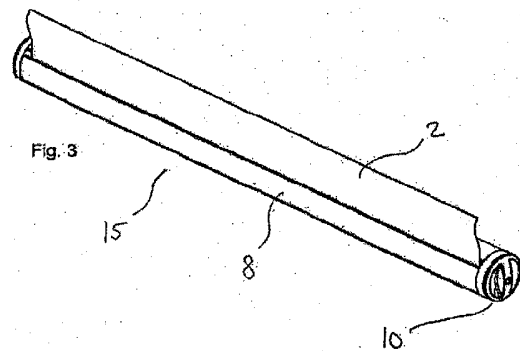
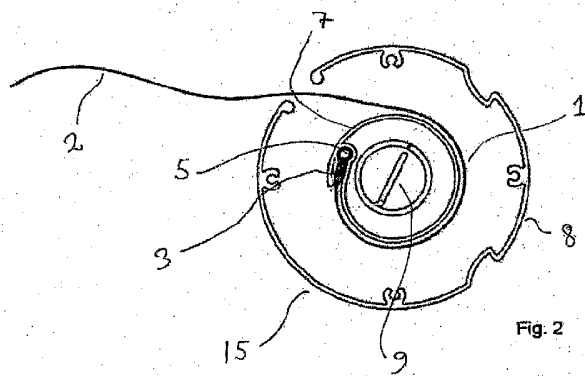
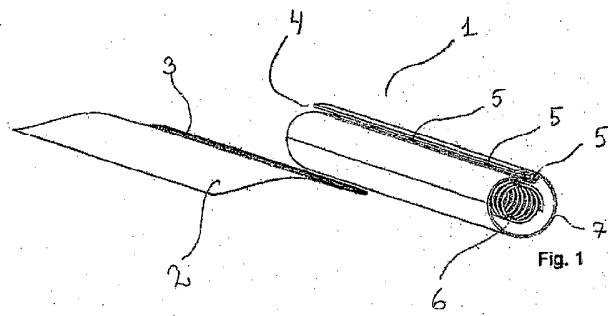
5. Topfikstur (16) eller oprullerenhed (15) ifølge krav 4, **kendetegnet** ved, at topfiksturen (16) eller oprullerenheden (15) er omsluttet af et hus (7) med et cirkulært tværsnit.

6. Topfikstur (16) ifølge ethvert af krav 4 eller 5, **kendetegnet** ved, at magneterne (5) er indbygget i en mekanisk fikstur i topfiksturens (16) ydre materiale (11).

7. Topfikstur (16) ifølge ethvert af de foregående krav 4 - 6, **kendetegnet** ved, at det magnetiske materiale i magneterne (5) er jern.

8. Anvendelse af fremgangsmåden ifølge ethvert af de foregående krav 1 - 3 til befæstigelse af emner (2), som posters, fotostater eller bannere ved at anvende topfiksturen (16) eller oprullerenheden (15) ifølge ethvert af de foregående krav 4 - 7.

DRAWINGS



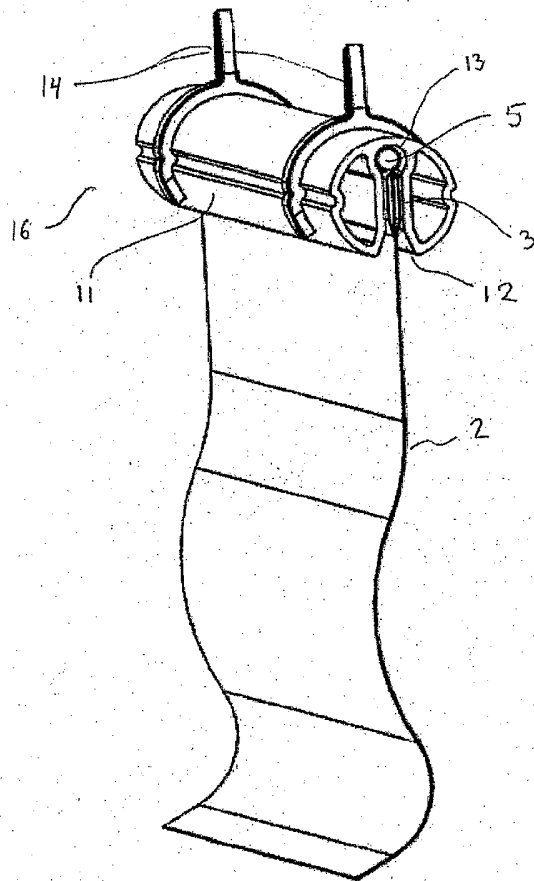


Fig. 4