Disclosure of the invention

In a first aspect, the present disclosure provides a protective cover with a base, two side walls, a front wall, a rear wall and a lid, comprising a blank which is formed integrally and is composed of a plastics material, wherein the blank has a base region, a rear wall region, a front wall region, two side wall regions and a lid region, and the blank is folded in a cuboidal shape, characterized in that the protective cover has connecting elements with magnetic elements and optionally counter elements, wherein the connecting elements are designed and arranged in such a manner that the edges of the blank that butt against one another in the folded cuboidal shape are held together by the connecting elements which exert magnetic attraction forces on one another and in that the connecting elements are connected to the blank and a first portion of the connecting elements ends flush with the outer borders of the blank and a second portion of the connecting elements projects beyond the outer borders of blank, where a connecting element ending flush in each case interacts with a connecting element projecting beyond the outer border.

In a second aspect, the present disclosure provides a folding sheet comprising a blank composed of a plastics material and connecting elements fastened to the blank, characterized in that the folding sheet is configured in such a manner that the latter is foldable to form a protective cover according to the first aspect, wherein the folding sheet is held together in the folded shape by magnetic attraction forces.

In a third aspect, the present disclosure provides a method for producing a protective cover according to the first aspect, characterized in that an item which is to be protected is deposited on a blank and then the protective cover is folded up using connection elements around the item to be protected to form the cuboidal protective cover, wherein the connecting elements are arranged in such a manner that the edges of the blank that butt against one another in the folded cuboidal shape are held together by the connecting elements which exert magnetic attraction forces on one another.

A protective cover with a base, two side walls, a front wall, a rear wall and a lid is proposed, wherein the protective cover comprises a blank which is formed

integrally and is composed of a plastics material. The blank has a base region, a rear wall region, a front wall region, two side wall regions and a lid region, and the blank is folded in a cuboidal shape. Furthermore, it is provided that the protective cover has connecting elements, preferably with magnet elements and optionally counter elements, wherein the connecting elements are designed and arranged in such a manner that all of the edges of the blank that butt against one another in the folded cuboidal shape are held together preferably solely by the connecting elements which preferably exert magnetic attraction forces on one another.

The connecting elements are preferably connected fixedly to the blank. A first portion of the connecting elements ends flush here with the outer borders of the blank and a second portion of the connecting elements projects beyond the outer borders of the blank, wherein a connecting element ending flush in each case interacts with a connecting element projecting beyond the outer border. "Connected fixedly" is understood here as meaning that the connecting element cannot be separated from the blank without being destroyed.

Alternatively, the connecting elements are not connected fixedly to the blank, wherein in each case two connecting elements interact on opposite sides of the surface of the blank. "Not connected fixedly" is understood here as meaning that the connecting elements are placed onto the blank and are held on the blank only by magnetic attraction forces of two connecting elements.

The protective cover is preferably held in the cuboidal shape only via the magnetic forces of the connecting elements. Further connections between parts of the blank, whether provided in the form of a force fit by non-magnetic connecting means, form fit or integrally bonded fit, are preferably not used. No plug-in connectors, plug-in tabs or the like are therefore arranged on the blank, and, for folding the blank into the cuboidal shape, the edges of the blank that butt against one another in the cuboidal shape are not adhesively bonded or welded. The magnetic connections can always be released again easily, and also the protective cover can be easily completely opened and thereby set into a flat state. A flat state

Patent claims

1. A protective cover (10) with a base (24), two side walls (20), a front wall (16), a rear wall (18) and a lid (22), comprising a blank (12) which is formed integrally and is composed of a plastics material, wherein the blank (12) has a base region (24‘), a rear wall region (18‘), a front wall region (16‘), two side wall regions (20‘) and a lid region (24‘), and the blank (12) is folded in a cuboidal shape, characterized in that the protective cover (10) has connecting elements (14) with magnetic elements and optionally counter elements, wherein the connecting elements (14) are designed and arranged in such a manner that the edges of the blank (12) that butt against one another in the folded cuboidal shape are held together by the connecting elements (14) which exert magnetic attraction forces on one another and in that the connecting elements (14) are connected to the blank (12) and a first portion of the connecting elements (14) ends flush with the outer borders of the blank (12) and a second portion of the connecting elements (14) projects beyond the outer borders of blank (12), where a connecting element (14) ending flush in each case interacts with a connecting element (14) projecting beyond the outer border.

2. The protective cover (10) as claimed in claim 1, characterized in that at least one connecting element (14) is designed to be foldable.

3. The protective cover (10) as claimed in one of claims 1 or 2, characterized in that the plastics material is selected from a polyester, such as polyethyleneterephthalate (PET), polyvinylchloride (PVC), polypropylene (PP), polyethylene (PE), polycarbonate (PC), styrene-copolymers or a mixture of various polymers.

4. The protective cover (10) as claimed in one of claims 1 to 3, characterized in that the blank (12) is transparent at least in partial regions.

5. The protective cover (10) as claimed in one of claims 1 to 4, characterized in that a magnetic element is arranged on the rear wall (18) in such a manner that the protective cover can be fastened to a magnetic wall.

6. The protective cover (10) as claimed in one of claims 1 to 5, characterized in that the magnetic elements are designed as permanent magnets, in particular as a permanently magnetic film and/or as a permanently magnetic band.

7. The protective cover (10) as claimed in one of claims 1 to 86 characterized in that the counter elements are not designed to be permanently magnetic, and are designed in particular in the form of a metal sheet or a metal foil, and are attracted by the respective magnetic elements.

8. The protective cover (10) as claimed in one of claims 1 to 7, characterized in that, in the case of the blank (12), the rear wall region (18‘) and the front wall region (16‘) are adjacent to the base region (24‘), the lid region (22‘) is adjacent to the front wall region (16‘) or to the rear wall region (18‘), and in that the two side regions (22‘) are adjacent to the base region (24‘), the front wall region (16‘) or to the rear wall region (18‘).

9. The protective cover (10) as claimed in one of claims 1 to 8, characterized in that the connecting elements (14) are connected fixedly to the blank (12) by means of adhesive bonding, welding, sewing or laminating.

10. The protective cover (10) as claimed in one of claims 1 to 9, furthermore comprising illuminating means (36) for illuminating an item (32) accommodated in the protective cover (10).

11. A folding sheet (11) comprising a blank (12) composed of a plastics material and connecting elements (14) fastened to the blank (12), characterized in that the folding sheet (11) is configured in such a manner that the latter is foldable to form a protective cover (10) as claimed in claim 9, wherein the

folding sheet (12) is held together in the folded shape by magnetic attraction forces.

12. A method for producing a protective cover (10) as claimed in one of claims 1 to 10, characterized in that an item (32) which is to be protected is deposited on a blank (12) and then the protective cover (10) is folded up using connecting elements (14) around the item (32) to be protected to form the cuboidal protective cover (10), wherein the connecting elements (14) are arranged in such a manner that the edges of the blank (12) that butt against one another in the folded cuboidal shape are held together by the connecting elements (14) which exert magnetic attraction forces on one another.