CLAIMS

1. A folding bag foldable into a flat rectangular shape, the folding bag comprising:

handle opening portions that are formed along respective short sides of a rectangular sheet having short sides and long sides;

end creases that are formed by folding the sheet upward along turn-around lines distant by an equal spacing both from a symmetry axis that is a perpendicular bisector of long sides of the sheet and from the handle opening portion in such a manner that the handle opening portions abut each other, or are close to each other, so as to oppose each other at the symmetry axis and the end creases parallel to the symmetry axis are positioned at both ends of the folded sheet;

a storage portion that are formed by roll-folding the folded sheet at multiple roll-fold lines, the roll widths gradually become larger from both end creases toward the handle opening portions, and the handle opening portions are provided at the innermost side of the storage portion; and

bundled end portions that bundle and seal respective longitudinally opposite end portions of the roll-folded storage portion, wherein

the storage portion is configured to be roll-folded from a usage state by stretching the storage portion by pulling the bundled end portions away from each other.

2. The folding bag according to Claim 1, wherein

the handle opening portions have respective standing portions formed by bending the sheet downward at a mountain-fold line that are distant, by a predetermined spacing, from corresponding short sides and are parallel thereto; and

the end creases turn at each turn-around line that is drawn so as to have an equal spacing both from the symmetry axis and from the mountain-fold line in such a manner that the standing portions oppose each other at the symmetry axis.

3. The folding bag according to Claim 2, wherein

the handle opening portions have respective handles formed along the corresponding short sides.

4. The folding bag according to Claim 3, wherein

the handles have respective hollow openings formed near the corresponding short side.

5. The folding bag according to any one of Claims 1 to 4, wherein

the storage portion has an inner pocket that is formed so as to be parallel to the handle opening portions.

6. A method of producing a folding bag that is roll-folded into a flat rectangular shape from a usage state by stretching the

folding bag by pulling both end portions thereof away from each other, the method comprising:

a step of laying out a rectangular sheet having short sides and long sides;

a step of forming handle opening portions from the sheet along respective short sides;

a step of forming end creases by folding the sheet upward along turn-around lines equidistant from a symmetry axis that is a perpendicular bisector of the long sides of the sheet and from the handle opening portion in such a manner that the handle opening portions abut each other, or are close to each other, so as to oppose each other at the symmetry axis, the end creases extending at both ends of the folded sheet so as to be parallel to the symmetry axis;

a step of forming a storage portion by roll-folding the folded sheet at multiple roll-fold lines, the roll widths gradually become larger from both end creases toward the handle opening portions, the handle opening portions are provided at the innermost side of the storage portion; and

a step of forming bundled end portions by sealing respective longitudinally opposite end portions of the folded storage portion.

7. The method of producing the folding bag according to Claim 6, wherein

the step of forming the handle opening portions includes a

step of bending the sheet downward at mountain-fold lines parallel to respective short sides so as to allow necessary distances from the short sides for forming standing portions; and

the step of forming the end creases turns at each turn-around line that is drawn so as to have an equal spacing both from the symmetry axis and from the mountain-fold line in such a manner that the standing portions oppose each other at the symmetry axis.

8. The method of producing the folding bag according to Claim 6 or 7, wherein

the step of forming the handle opening portions further includes a step of forming handles along respective short sides.

9. The method of producing the folding bag according to Claim 8, wherein

the step of forming the handles includes a step of forming hollow openings near respective short sides.

10. The method of producing the folding bag according to any one of Claims 6 to 9, wherein

the step of forming the storage portion includes a step of forming an inner pocket positioned so as to be parallel to the handle opening portions.