CLAIMS

1. A collecting and packaging device, comprising:

a carrying area being a zone for placing at least one target object ;

a conveying portion disposed on a side of the carrying area and adapted to hold a first packaging unit, the first packaging unit having an adhesive surface;

a supplying portion disposed on another side of the carrying area and adapted to hold a second packaging unit, the second packaging unit being pullable to therefore span the carrying area, wherein, in the carrying area, a top surface of the second packaging unit thus pulled functions as a carrying surface which the at least one target object is to be placed on; and

an extrusion means for receiving the first and second packaging units thus pulled, allowing the adhesive surface of the first packaging unit to face the top surface of the second packaging unit such that, when further pulled, the first and second packaging units exert an extrusion force under which the adhesive surface of the first packaging unit and the top surface of the second packaging unit adhere together, the extrusion means exerting an extrusion force on the at least one target object placed on the carrying surface such that the at least one target object placed within the carrying area is collectively packaged and turned into a collecting and package plate after passing through the extrusion means;

wherein the extrusion means is implemented as two extrusion units, the first packaging unit being abuttingly supported by one of the extrusion units to therefore deviate from a movement direction after being outputted from the conveying portion, wherein a lamination slit is formed

between the two extrusion units to receive the first and second packaging units thus pulled, thereby allowing the extrusion force to be exerted through the lamination slit,

wherein another one of the extrusion units is a bottom board for abutting, the bottom board extends laterally from below the conveying portion to span the carrying area, lies below the carrying area, and abuttingly supports the second packaging unit.

2. The collecting and packaging device of claim 1, further comprising a cutting portion disposed behind the extrusion means and operable to cut and sever the collecting and package plate adhered and formed as a result of the passage of the first packaging unit and the second packaging unit through the extrusion means, thereby allowing the collecting and package plate to separate from the first packaging unit and the second packaging unit.

3. The collecting and packaging device of claim 2, wherein the conveying portion comprises a first roller for holding the first packaging unit at the conveying portion by winding the first packaging unit on the first roller, and the supplying portion comprises a second roller for holding the second packaging unit at the supplying portion by winding the second packaging unit on the second roller.

4. The collecting and packaging device of claim 2, wherein the supplying portion comprises a positioning roller for abuttingly supporting the second packaging unit thus pulled such that the second packaging unit thus pulled turns aside and spans the carrying area.

5. The collecting and packaging device of claim 1, wherein the two extrusion units are an abutting component and a resilient roller, respectively, the resilient roller being covered with a resilient material, the first packaging unit being abuttingly supported by the resilient roller to therefore deviate from a movement

direction after being outputted from the conveying portion, whereas the abutting component being the bottom board which is adjacent to the resilient roller and adapted for abutting, wherein a lamination slit is formed between the resilient roller and the abutting component to receive the first and second packaging units thus pulled, thereby allowing the extrusion force to be exerted through the lamination slit.

6. The collecting and packaging device of claim 1, wherein the two extrusion units are an abutting component and a roller, respectively, the abutting component is adjacent to the roller and adapted for abutting,and the abutting component is the bottom board.

7. The collecting and packaging device of claim 6, wherein a clamping component is disposed at an end edge of the bottom board to exert a clamping force on the collecting and package plate laminated, so as to pull the first packaging unit and the second packaging unit synchronously as soon as the bottom board is pulled.

8. The collecting and packaging device of claim 1, wherein the conveying portion comprises a first roller for holding the first packaging unit at the conveying portion by winding the first packaging unit on the first roller, whereas one of the two extrusion units is a combination of the first roller and a stretching-retracting control assembly, and another one of the two extrusion units is the bottom board, the stretching-retracting control assembly pressing resiliently against two ends of an axle of the first roller such that the first roller is normally positioned proximate to the carrying surface, with a lamination slit formed between the first roller and the bottom board to receive the first and second packaging units thus pulled, thereby allowing the extrusion force to be exerted through the lamination slit.

9. The collecting and packaging device of any one of claims 1-8, wherein the first packaging unit is a sheet capable of being reeled in, and the first packaging unit has another surface opposing the adhesive surface, the opposing other surface having a release film layer.

10. The collecting and packaging device of claim 9, wherein the second packaging unit comprises a composite plate formed by stacking a water-absorbing layer and a leak proofing layer, with the water-absorbing layer disposed on top of the second packaging unit to function as the carrying surface.

11. The collecting and packaging device of claim 9, wherein a lateral surface of the first packaging unit is adhesive in its entirety to form the adhesive surface.

12. The collecting and packaging device of claim 10, wherein the bottom board being pullable to move in a direction parallel to the carrying area, the bottom board being disposed below the second packaging unit pulled to span the carrying area, with a clamping portion disposed at an edge of the bottom board, positioned proximate to the conveying portion, and adapted to clamp the collecting and package plate and the bottom board together such that the first packaging unit and the second packaging unit are pulled synchronously as soon as the bottom board is pulled away from the conveying portion.

13. A collecting and packaging device, comprising:

a conveying portion for storing a first packaging unit, the first packaging unit having a packaging surface;

a supplying portion for storing a second packaging unit, wherein, as soon as the second packaging unit is pulled out of the supplying portion, a top surface of a portion of the second packaging unit functions as a carrying surface for placing at least one target object; and

an extrusion portion for receiving the first packaging unit and the second packaging unit, exerting an extrusion force under which the packaging surface of the first packaging unit and the top surface of the second packaging unit come into contact with each other, and exerting an extrusion force on the at least one target object placed on the carrying surface such that the at least one target object is collectively packaged and turned into a collecting and package plate after passing through the extrusion portion;

wherein the extrusion portion includes two extrusion units, the first packaging unit being abuttingly supported by one of the extrusion units to therefore deviate from a movement direction after being outputted from the conveying portion, wherein a lamination slit is formed between the two extrusion units to receive the first and second packaging units thus pulled, thereby allowing the extrusion force to be exerted through the lamination slit,

wherein another one of the extrusion units is a bottom board for abutting, the bottom board extends laterally from below the conveying portion to span the carrying area, lies below the carrying area, and abuttingly supports the second packaging unit.

14. The collecting and packaging device of claim 13, further comprising a cutting portion disposed behind the extrusion portion and operable to cut and sever the collecting and package plate, thereby allowing the collecting and package plate to separate from the first packaging unit and the second packaging unit.

15. The collecting and packaging device of claim 14, further comprising:

a drive motor configured to drive at least one of the extrusion portion and the cutting portion according to a control signal such that the first packaging unit and the second packaging unit are pulled; and

a control portion coupled to the drive motor to enable the drive motor according to a command so as to pull the first packaging unit and the second packaging unit, the command comprising an external operation command, a detection result command, or a timing command.

16. A desktop-oriented collection apparatus, comprising:

the collecting and packaging device of any one of claims 1-15; and

a support assembly for mounting the collecting and packaging device in place, the support assembly having an opening defining a carrying area, wherein the carrying surface of the second packaging unit exposed from the opening and a rim of the opening together define a desktop, so as to collect and package a target object within the carrying area on the desktop.