## CLAIMS

1. A method of installing an elastomer ring in a semiconductor processing equipment comprising a susceptor body including a top surface and a supporting element mounted to the top surface, and the supporting element comprising a top portion and a connecting portion, and a groove formed among the top surface, the top portion, and the connecting portion, and the method comprising steps of:

disposing preliminarily: mounting the elastomer ring to a side surface of the susceptor body and close to the top surface;

positioning: placing the elastomer ring into a notch formed on a guiding sheet; moving the elastomer ring toward a periphery of the groove with the guiding sheet, and then aligning the elastomer ring to the groove;

filling partially: pressing the elastomer ring by a partial filling jig; disposing the elastomer ring into the groove and filling the groove partially by the elastomer ring; and

filling fully: pressing the elastomer ring by a full filling jig until the groove is completely filled by the elastomer ring.

2. The method as claimed in claim 1, wherein multiple points on the elastomer ring are pressed in a particular sequence by the partial filling jig along an outer surface of the elastomer ring.

3. The method as claimed in claim 2, further comprising defining the outer surface of the elastomer ring equally into multiple arcs; pressing each one of the

multiple arcs by the partial filling jig gradually; each one of the multiple arcs includes two endpoints, one midpoint, and two relay points respectively; wherein the two endpoints are a first endpoint and a second endpoint, and the two relay points are a first relay point and a second relay point; the midpoint is in the middle between the first endpoint and the second endpoint; the first relay point is in the middle between the second endpoint and the midpoint, and the second relay point is in the middle between the first endpoint and the midpoint; the particular sequence is that the partial filling jig presses the first endpoint, the second endpoint, the midpoint, the first relay point, and the second relay point in sequence; the step of filling partially is finished when the multiple arcs are all pressed in the particular sequence.

4. The method as claimed in any one of claims 1 to 3, wherein multiple points on the elastomer ring and multiple segments of the elastomer ring are pressed and rolled in a particular sequence by the full filling jig along an outer surface of the elastomer ring.

5. The method as claimed in claim 4, further comprising defining the outer surface of the elastomer ring equally into multiple arcs; the full filling jig presses each one of the multiple arcs gradually; each one of the multiple arcs includes two terminal points, one intermediate point, and two rolling segments respectively; the two terminal points are a first terminal point and a second terminal point, and the two rolling segments are a first rolling segment and a second rolling segment; the intermediate point is in the middle between the first

terminal point and the second terminal point; the first rolling segment is between the first terminal point and the intermediate point, and the second rolling segment is between the second terminal point and the intermediate point; the particular sequence is that the full filling jig presses the first terminal point before pressing the intermediate point, and then the full filling jig rolls the first rolling segment from the intermediate point to the first terminal point; finally, the full filling jig rolls the second rolling segment from the second terminal point to the intermediate point after pressing the second terminal point; the step of filling fully is finished when the multiple arcs are all pressed and rolled in the particular sequence.

6. The method as claimed in any one of claims 1 to 5, wherein the cross-section of the elastomer ring is a rectangle; the elastomer ring comprises a radial width and a height, and the ratio of the radial width to the height is larger than 0.5.

7. The method as claimed in claim 6, wherein a side of the elastomer ring toward the groove comprises two edges; the two edges are chamfered edges.

8. A guiding sheet for installing an elastomer ring in a semiconductor processing equipment as claimed in any one of claims 1 to 7 comprising:

a body portion; and

a bending portion connected to the body portion;

wherein an angle is formed between the body portion and the bending

portion; a notch is recessed on a side of the bending portion opposite to the body portion, and the notch is corresponding to the elastomer ring in shape.

9. A partial filling jig for installing an elastomer ring in a semiconductor processing equipment as claimed in claim 1 comprising:

two semicircular structures; and

two packing assemblies mounted on the two semicircular structures respectively;

wherein each one of the two semicircular structures comprises two ends, and two protrusions are formed on the two ends of the each one of the two semicircular structures respectively; the two protrusions protrude toward an outer side of the each one of the two semicircular structures respectively; inner sides of the two semicircular structures are opposite each other, and the inner sides of the two semicircular structures are corresponding to the elastomer ring in shape; the two packing assemblies are mounted on the two protrusions of each one of the two semicircular structures.

10. The partial filling jig as claimed in claim 9, wherein each one of the two protrusions comprises a fixing hole respectively; each one of the two packing assemblies comprises a screw and a nut, and the screw is corresponding to the nut; the screw and the nut are mounted on two opposite sides of each one of the two protrusions; the screw penetrates through the fixing holes of the two semicircular structures, and the nut is screwed into the screw.

11. A full filling jig for installing an elastomer ring in a semiconductor processing equipment as claimed in any one of claims 1 to 7 comprising:

a body; wherein the body comprises a rolling surface, and the rolling surface is arc shape.

12. The full filling jig as claimed in claim 11, wherein the body comprises at least two cavities; the at least two cavities are recessed on the rolling surface; and multiple limited rolling surfaces are formed from dividing the rolling surface by the at least two cavities.

13. The full filling jig as claimed in claim 11 or 12, wherein a through hole is formed at a geometric center of the body.

14. A method of installing an elastomer ring in a semiconductor processing equipment, and the semiconductor processing equipment comprising a susceptor body including a top surface, a supporting element mounted to the top surface and including a top portion and a connecting portion, and a groove formed among the top surface, the top portion, and the connecting portion, the method comprising steps of:

disposing preliminarily: mounting the elastomer ring to a side surface of the susceptor body and close to the top surface;

covering and filling partially: covering the groove with the elastomer ring, and inserting a sheet into a gap between the groove and the elastomer ring to dispose the elastomer ring into the groove evenly; filling the groove partially by

the elastomer ring; and

filling fully: pressing the elastomer ring by a full filling jig until the groove is completely filled by the elastomer ring.

15. The method as claimed in claim 14, wherein the step of filling fully comprises that multiple points on the elastomer ring and multiple segments of the elastomer ring are pressed and rolled in a particular sequence by the full filling jig along an outer surface of the elastomer ring.

16. The method as claimed in claim 15, further comprising defining the outer surface of the elastomer ring equally into multiple arcs; pressing each one of the multiple arcs gradually by the full filling jig; wherein each one of the multiple arcs includes two terminal points, one intermediate point, and two rolling segments respectively; the two terminal points are a first terminal point and a second terminal point, and the two rolling segments are a first rolling segment and a second rolling segment; the intermediate point is in the middle between the first terminal point and the second terminal point; the first rolling segment is between the first terminal point and the intermediate point, and the second rolling segment is between the second terminal point and the intermediate point; the particular sequence is that the full filling jig presses the first terminal point before pressing the intermediate point, and then the full filling jig rolls the first rolling segment from the intermediate point to the first terminal point; finally, the full filling jig rolls the second rolling segment from the second terminal point to the intermediate point after pressing the second

terminal point; the step of filling fully is finished when the multiple arcs are all pressed and rolled through the particular sequence.

17. The method as claimed in any one of claims 14 to 16, wherein the cross-section of the elastomer ring is a rectangle; the elastomer ring comprises a radial width and a height, and the ratio of the radial width to the height is less than 0.5.

18. The method as claimed in claim 17, wherein a side of the elastomer ring toward the groove comprises two edges; the two edges are chamfered edges respectively.

19. A sheet for installing an elastomer ring in a semiconductor processing equipment as claimed in any one of claims 14 to 18, the sheet comprising two opposite surfaces, and one of the two opposite surfaces corresponding to the inner side of the elastomer ring.