

sustainability, so that the manufacturing cost of wafer can be reduced.

One concept of the disclosure provides a chemical mechanical polishing fastening fixture. The chemical mechanical polishing fastening fixture includes a fastening base and a fastening ring. The fastening base includes an annular substrate having a first combining face and a plurality of protruded blocks annularly aligned on the first combining face. Each protruded block is made of polyphenylene sulfide and includes a first buckling face. The first buckling face is tilted from a root portion thereof toward an outer side of the protruded block along a plane radially extending from the annular substrate. The fastening ring has a second combining face and a plurality of first grooves. The first grooves are annularly aligned on the second combining face. Parts of a flange of each first groove are constituted of a second buckling face, and the second buckling face is tilted from a root portion thereof toward the second combining face. When the protruded blocks are disposed in the first grooves, the fastening base and the fastening ring are rotated counterclockwise respectively along the circumference thereof, so that the first buckling face of the protruded block is buckled with the second buckling face of the first groove.

Another concept of the disclosure provides a fastening base of a chemical mechanical polishing fastening fixture. The fastening base is provided to combine with a fastening ring so as to form the chemical mechanical polishing fastening fixture. The fastening ring has a second combining face and a plurality of first grooves. The first grooves are annularly aligned on the second combining face. Parts of a flange of each first groove are constituted of a second buckling face. The second buckling face is tilted from a root portion thereof toward the second combining face. The fastening base includes an annular substrate having a first combining face and a plurality of protruded blocks annularly aligned on the first combining face. Each protruded block is made of polyphenylene sulfide and includes a first buckling face. The first buckling face is tilted from a root portion thereof toward an outer side of the protruded block along a plane radially extending from the annular substrate. When the protruded blocks are disposed in the first grooves, the fastening base and the fastening ring are rotated counterclockwise respectively along the circumference thereof, so that the first buckling face of the protruded block is buckled with the second buckling face of

the first groove.

A further concept of the disclosure provides a chemical mechanical polishing fastening fixture.

5 The chemical mechanical polishing fastening fixture includes a fastening base and a fastening ring. The fastening ring includes an annular substrate having a first combining face and a plurality of protruded blocks annularly aligned on the first combining face. Each protruded block is made of polyphenylene sulfide and includes a first buckling face. The first buckling face is tilted from a root portion thereof toward an outer side of the protruded block along a plane radially extending from the annular substrate. The fastening base has a
10 second combining face and a plurality of first grooves. The first grooves are annularly aligned on the second combining face. Parts of a flange of each first groove are constituted of a second buckling face, and the second buckling face is tilted from a root portion thereof toward the second combining face. When the protruded blocks are disposed in the first grooves, the fastening base and the fastening ring are rotated counterclockwise respectively
15 along the circumference thereof, so that the first buckling face of the protruded block is buckled with the second buckling face of the first groove.

The detailed features and advantages of the disclosure are described below in great detail through the following embodiments, the content of the detailed description is sufficient for those skilled in the art to understand the technical content of the disclosure and to implement
20 the disclosure there accordingly. Based upon the content of the specification, the claims, and the drawings, those skilled in the art can easily understand the relevant objectives and advantages of the disclosure.

BRIEF DESCRIPTION OF THE DRAWINGS

The disclosure will become more fully understood from the detailed description given
25 herein below for illustration only and thus not limitative of the disclosure, wherein:

FIG. 1 is a perspective view of a conventional wafer fastening fixture;

FIGs. 2A and 2B are schematic views of a chemical mechanical polishing fastening fixture of the disclosure;

CLAIMS

What is claimed is:

1. A chemical mechanical polishing fastening fixture, comprising:

a fastening base, comprising:

5 an annular substrate, made of stainless steel, having a first combining face; and
 a plurality of protruded blocks, annularly aligned on the first combining face,
each protruded block being made of polyphenylene sulfide and comprising a first
buckling face being tilted from a root portion thereof toward an outer side of the
protruded block along a plane radially extending from the annular substrate; and

10 a fastening ring, made of polyphenylene sulfide, having a second combining face
and a plurality of first grooves, the first grooves being annularly aligned on the second
combining face, parts of a flange of each first groove being constituted of a second
buckling face, the second buckling face being tilted from a root portion thereof toward
the second combining face;

15 wherein the protruded block further comprises a first guiding face, disposed opposite
to the first buckling face and parallel to the first buckling face, the first groove further
comprises a second guiding face, disposed opposite to the second buckling face and is
parallel to the second buckling face, and when the protruded blocks are disposed in the
first grooves, the fastening base and the fastening ring are rotated counterclockwise
20 respectively along the circumference thereof, so that the first buckling face of the
protruded block is buckled with the second buckling face of the first groove, and the first
guiding face is abutted against the second guiding face.

2. The chemical mechanical polishing fastening fixture according to claim 1, wherein each
protruded block has a first through hole, and the first combining face of the annular
25 substrate has a plurality of second through holes, each second through hole is
corresponding to and is opposite to each corresponding first through hole, a screw bolt is
passing through and threaded with the first through hole and the second through hole, so

that the protruded block is fastened on the annular substrate.

3. The chemical mechanical polishing fastening fixture according to claim 2, wherein the annular substrate further comprises a plurality of second grooves, each second groove receives each corresponding protruded block so as to prevent each corresponding protruded block from sliding.
4. The chemical mechanical polishing fastening fixture according to claim 1, wherein each protruded block has a protruded rod, and the first combining face of the annular substrate has a plurality of recessed holes, the protruded rods are inserted into the recessed holes, so that the protruded blocks are fastened on the annular substrate.
5. The chemical mechanical polishing fastening fixture according to claim 4, wherein the annular substrate further comprises a plurality of second grooves, each second groove receives each corresponding protruded block so as to prevent each corresponding protruded block from sliding.
6. The chemical mechanical polishing fastening fixture according to claim 1, wherein a first tilt angle defined between the first buckling face and the second buckling face is defined from 1 degree to 60 degrees, and the first buckling face is parallel to the second buckling face.
7. The chemical mechanical polishing fastening fixture according to claim 6, wherein a second tilt angle defined between the first guiding face and the second guiding face is defined from 1 degree to 60 degrees, and the first guiding face is parallel to the second guiding face.