

CLAIMS

What is claimed is:

1. A chemical mechanical polishing fastening fixture, comprising:

a fastening base, comprising:

5 an annular substrate, 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, 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 respectively along the circumference thereof, so that the first buckling face of the
20 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 substrate has a plurality of second through holes, each second through hole is
25 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.
- 5 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.
- 10 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.
- 15 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.
- 20 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.
- 25 8. A fastening base of a chemical mechanical polishing fastening fixture, provided to combine with a fastening ring so as to form the chemical mechanical polishing fastening fixture, in which the fastening ring has a second combining face and a plurality of first grooves, in which the first grooves are annularly aligned on the second combining face, in which parts of a flange of each first groove are constituted of a second buckling face, in which the second buckling face is tilted from a root portion thereof toward the second combining face, the fastening base comprising:

an annular substrate, 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, the 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;

5 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 configured for being rotated
10 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, and the first guiding face is abutted against the second guiding face.

9. The fastening base of the chemical mechanical polishing fastening fixture according to claim 8, wherein each protruded block has a first through hole, and the first combining
15 face of the annular 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.

10. The fastening base of the chemical mechanical polishing fastening fixture according to claim 9, wherein the annular substrate further comprises a plurality of second grooves,
20 each second groove receives each corresponding protruded block so as to prevent each corresponding protruded block from sliding.

11. The fastening base of the chemical mechanical polishing fastening fixture according to claim 8, wherein each protruded block has a protruded rod, and the first combining
25 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.

12. The fastening base of the chemical mechanical polishing fastening fixture according to claim 11, 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.

13. The fastening base of the chemical mechanical polishing fastening fixture according to claim 8, 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.

14. The fastening base of the chemical mechanical polishing fastening fixture according to claim 13, 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.

15. A chemical mechanical polishing fastening fixture, comprising:

a fastening ring, comprising:

an annular substrate, 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

a fastening base, 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;

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 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.

16. The chemical mechanical polishing fastening fixture according to claim 15, 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.
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17. The chemical mechanical polishing fastening fixture according to claim 16, 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.