Claims

1. A slicing mechanism, comprised of a lower cover and cutter components, wherein the cutter components are fixed to the rotating gear, which is rotates in the lower cover;

wherein an upper storing cylindrical cavity is formed at the inner upper part of the lower cover and a lower storing cylindrical cavity is formed at the inner lower part of the lower cover;

wherein the upper storing cylindrical cavity is arranged coaxially with the lower storing cylindrical cavity;

wherein the radius of the upper storing cylindrical cavity is larger than that of the lower storing cylindrical cavity;

wherein an annular stepping-part is formed at the joint between the upper storing cylindrical cavity and the lower storing cylindrical cavity;

wherein the rotating gear is rotationally disposed in the upper storing cylindrical cavity; wherein the cutter components are restricted by the locating device to move upwards and downwards;

wherein the upper end of the cutter components is coupled to the rotating gear and the lower end of the cutter components extends into the lower storing cylindrical cavity.

2. The slicing mechanism of claim 1, wherein an anti-wear device is disposed between the rotating gear and the annular stepping-part.

3. The slicing mechanism of claim 2, wherein a plurality of installation holes are disposed along the direction of the upper circumference of the annular stepping-part;

wherein a rotating wheel, which can rotate with the rotating gear, is disposed in the installation hole.

4. The slicing mechanism of claim 3, wherein the locating device comprises an upper cover;

wherein a feeding inlet is formed inside of the upper cover;

wherein the bottom of the upper cover is engaged with the upper part of the lower cover.

5. The slicing mechanism of claim 4, wherein a plurality of locating convex parts are disposed at the outer circumference of the bottom of the feeding inlet;

wherein the plurality of locating convex parts are arranged to match the cutter components correspondingly.

6. The slicing mechanism of claim 5, wherein a plurality of sleeve pipes is disposed at the outer circumference of the bottom of the feeding inlet;

wherein the plurality of locating convex parts is disposed inside of the plurality of sleeve pipes correspondingly;

wherein a compression spring is disposed between the locating convex part and the bottom of the sleeve pipe.

7. The slicing mechanism of claim 1, wherein a through-hole is formed in the middle part of the rotating gear;

wherein the rotating gear of the outer circumference of the through-hole is provided with a plurality of locating slots;

wherein the cutter components comprise a flange and a cutter rack, which is fixed in the middle position of the bottom of the flange;

wherein the cutter rack is provided with cutting blades;

wherein the circumference of the bottom of the flange is provided with a plurality of locating strips;

wherein the rotating gears and the cutter components are connected through the interaction between the plurality of locating slots and the plurality of locating strips.

8. The slicing mechanism of claim 3, wherein the cutting blades comprise a cutting blade A;

wherein the cutting blade A is fixed on the cutter rack.

9. The slicing mechanism of claim 8, wherein the cutting blades further comprise cutting blades B;

wherein the cutting edge of the cutting blade A and the cutting edges of

cutting blades B are placed crosswise.

10. The slicing mechanism of claim 4, wherein a detached charging bar is inserted in the inner cavity of the feeding inlet of the upper cover;

wherein the bottom of the charging bar is provided with a rotation-stopping device A. Alternatively, the inner side wall of the feeding inlet is provided with a rotation-stopping device B.

11. A slicer adopting the slicing mechanism of claims 10, comprising:

the base components,

the speed-reducing components,

the storing part and

the slicing mechanism;

wherein the speed-reducing components are disposed on the base components;

wherein the speed-reducing components impel the rotating gears of the slicing mechanism to rotate;

wherein the storing part is correspondingly disposed at the lower part of the slicing mechanism.