CLAIMS:

1. An automatic pushing type complementary food device comprising a clamping body, an elastic member and a colander, wherein an inner side of the clamping body is connected to one end of the elastic member in a clamped manner, an outer side of the clamping body is connected to the colander in a clamped manner, the other end of the elastic member extends into the colander, a complementary food cavity is provided in the colander, and overflow holes are provided in an outer wall of the colander,

one end of the elastic member provided with the cavity is a clamping end, the other end of the elastic member is a free end, the clamping end and the free end are connected via a toothed sidewall,

a surface of an outer sidewall of the free end of the elastic member is a corrugated surface, and a top end of the corrugated surface is adhered to an inner wall of the colander.

2. The automatic pushing type complementary food device according to claim 1, characterized in that an air hole penetrating the clamping body is provided on the clamping body, and a cavity communicating with the air hole is provided on the elastic member.

3. The automatic pushing type complementary food device according to claim 2, characterized in that the clamping body is a cylinder structure with a top cover provided at top and an opening provided at bottom thereof, an arc-shaped protrusion is provided about the axis at the top of the top cover, and the air hole are provided at axis of the cylinder structure, and wall thickness of the top cover at the air hole is greater than wall thickness at periphery of the clamping body ~~air hole~~.

4. The automatic pushing type complementary food device according to

claim 1, characterized in that a first clamping protrusion is provided at the outer side of the clamping body, and a second clamping protrusion is provided at the inner side of the clamping body; the first clamping protrusion is located above the second clamping protrusion.

5. The automatic pushing type complementary food device according to claim 4, characterized in that inner diameter of the clamping body at the second clamping protrusion is smaller than the inner diameter of the colander.

6. The automatic pushing type complementary food device according to claim 4, characterized in that the cross section of the first clamping protrusion is a right-angled trapezoid; the cross section of the second clamping protrusion is a right-angled trapezoid.

~~7. The automatic pushing type complementary food device according to claim 2, characterized in that one end of the elastic member provided with the cavity is a clamping end, the other end of the elastic member is a free end, the clamping end and the free end are connected via a toothed sidewall.~~

~~8. The automatic pushing type complementary food device according to claim 7, characterized in that a surface of an outer sidewall of the free end of the elastic member is a corrugated surface, and a top end of the corrugated surface is adhered to an inner wall of the colander.~~

7~~9~~. The automatic pushing type complementary food device according to claim 1~~7~~, characterized in that outer tip thickness of the toothed sidewall is greater than inner tip thickness.

8~~10~~. The automatic pushing type complementary food device according to

claim 1, characterized in that, further comprising an outer cover, the bottom of the outer cover is provided with a base, and the outer cover is sleeved on the outer side of the colander and is connected to the colander in a clamping manner.

9~~11~~. The automatic pushing type complementary food device according to anyone of claims 1-8~~10~~, characterized in that, the colander includes a colander main body and a connecting piece, the connecting piece is in clamping fit with the clamping body, the colander main body is movably connected or fixedly connected with the connecting piece; the colander main body includes a mating section and a feeding end; the mating section is a rotary body for sliding mate with the elastic member; the feeding end is a shuttle body with an oblong cross section, and a sidewall is provided with the overflow holes for overflowing complementary food.

10~~2~~. The automatic pushing type complementary food device according to claim 9~~11~~, characterized in that, the colander main body is movably connected to the connecting piece, and the colander main body further comprises a clamping end, wherein the clamping end is connected to the mating section, and the clamping end is clamped at inner side of the connecting piece.

11~~3~~. The automatic pushing type complementary food device according to claim 9~~11~~, characterized in that, the colander main body is fixedly connected to the connecting piece, and the colander main body further comprises a coating end, wherein the coating end is connected to the matching section, and the coating end is connected to outer side of the connecting piece by encapsulation and is provided integrally with the connecting piece.

12~~4~~. The automatic pushing type complementary food device according to claim 9~~11~~, characterized in that, oblong major axis diameter of the largest cross

section of the feeding end is greater than diameter of cross section of the mating section; and the sidewall of the feeding end is arranged with a plurality of annular recesses ~~which~~ similar to ~~are in conformity with~~ arc shape of baby teeth, surface of the annular recesses is arc-shaped, and a plurality of the overflow holes are located in the annular recesses, and distributed in one large and one small array along the annular recesses on upper and lower surfaces of the shuttle body.

1~~3~~5. The automatic pushing type complementary food device according to claim 9~~1~~1, characterized in that, oblong major axis diameter of the largest cross section of the feeding end is smaller than diameter of cross section of the mating section; a plurality of the overflow holes are distributed in one large and one small array on upper and lower surfaces of the shuttle body, and arc of arc line formed by connecting central points of each row of the overflow holes ~~has the same arc as~~ is similar to arc shape of baby teeth.

1~~4~~6. The automatic pushing type complementary food device according to claim 9~~1~~1, characterized in that, a lifting ring is provided at top of the clamping body, wherein two ends of the lifting ring are connected to the clamping body, and diameter of the lifting ring is gradually increased from the two ends to centre.

1~~5~~7. The automatic pushing type complementary food device according to claim 1~~4~~6, characterized in that, the clamping body, the elastic member, the colander main body and the connecting piece are all made of liquid silica gel.

1~~6~~8. The automatic pushing type complementary food device according to claim 9~~1~~1, characterized in that, hardness of the connecting piece is greater than the hardness of the colander main body; the colander main body has the smallest hardness relative to the clamping body, the elastic member and the connecting piece.

ABSTRACT

An automatic pushing type complementary food device comprising a clamping body (3), an elastic member (16) and a colander (4), wherein the inner side of the clamping body (3) is connected to one end of an elastic member (16) in a clamped manner, the outer side of the clamping body (3) is connected to the colander (4) in a clamped manner, the other end of the elastic member (16) extends into the colander (4), a complementary food cavity is provided in the colander (4), and overflow holes (5) are provided in the outer wall of the colander (4). The automatic pushing type complementary food device is simple in structure, convenient to operate, capable of automatically pushing and collecting complementary food when a baby uses the device, free of auxiliary operation by a mother, capable of bringing convenience to the mother during feeding, capable of achieving automatic collection of the complementary food without a complex pushing structure, easy to clean and not prone to creating the situation that the baby mistakenly eats the complementary food, the usage experience can be improved while the safety of the baby in use can be guaranteed, and the characteristics of simple structure, convenience in operation, safety in use and good usage experience are achieved.

DRAWINGS:

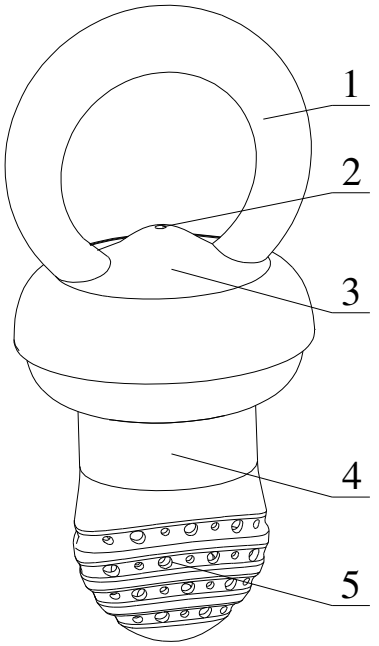


Fig. 1

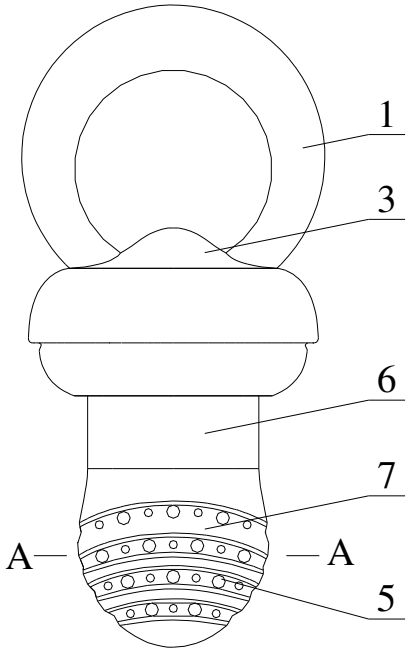


Fig. 2

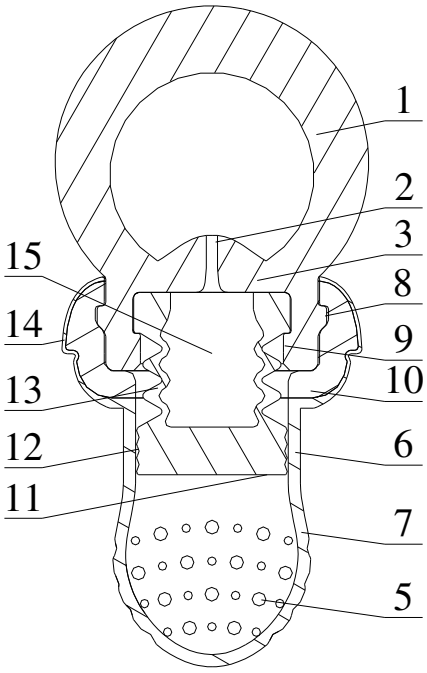


Fig. 3

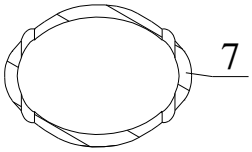


Fig. 4

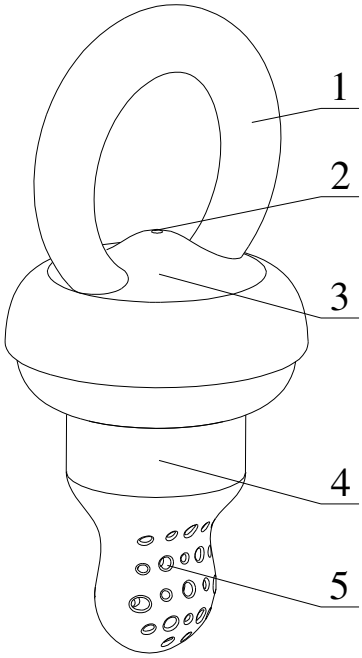


Fig. 5

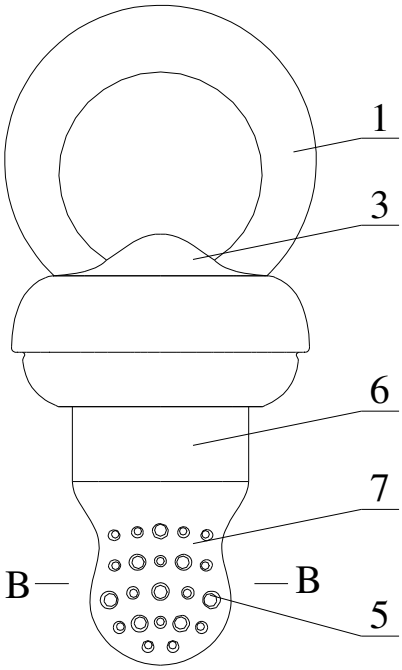


Fig. 6

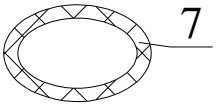


Fig.7

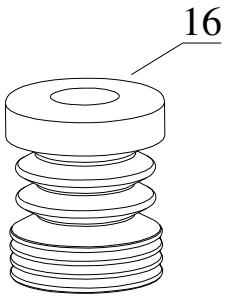


Fig. 8

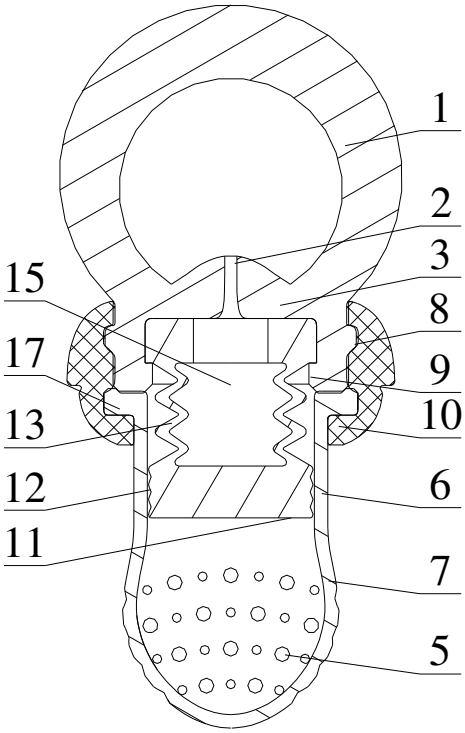


Fig. 9

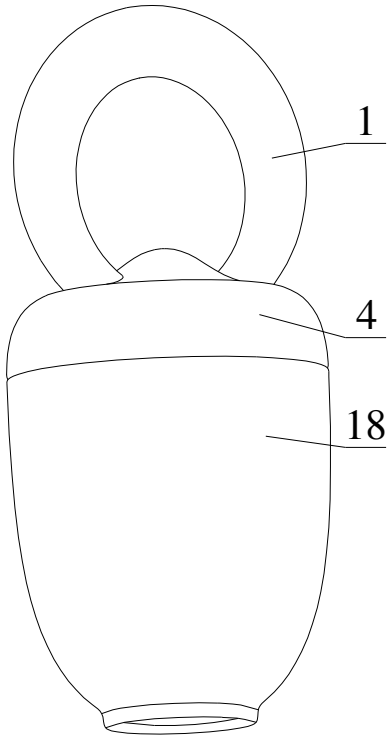


Fig. 10