Claims

1. A prepuce extruding, cutting, hemostasis, and healing assembly comprising an ultrasound sub-assembly able to produce ultrasonic waves wherein the ultrasound is to be applied to the foreskin for compressing, cutting, hemostasis and healing at a junction of an internal and an external tissue of a tip of human; wherein the ultrasound subassembly comprises an ultrasonic generating device, a transmission device, and a circumcision device comprising an inner ring and an outer ring, which cooperate with each other to clamp the foreskin;

the ultrasonic generating device being able to generate a plurality of ultrasonic waves, and the ultrasonic generating device being connected to the transmission device and capable of transmitting the plurality of ultrasonic waves to the transmission device;

the transmission device being connected to the circumcision device and capable of transmitting the plurality of ultrasonic waves to the circumcision device; and

the circumcision device being able to generate a plurality of ultrasonic waves and transmit them to a foreskin cutting end; the frictional heat caused by the mechanical vibration of the ultrasonic wave generation being able to coagulate the foreskin from bleeding, while cutting the foreskin.

2. The assembly of claim 1, wherein the inner ring is integrally connected to the transmission device or detachably connected by a first fixedly-connected device;

a plane of the annulus of the inner ring is in a same plane as an extending direction of the transmission device, or, there is an angle between the plane of the annulus of the inner ring and the extending direction of the transmission device.

3. The assembly of claim 1, wherein the inner ring is integrally connected to the transmission device, and a plane of the annulus of the outer ring is in a same plane as an extending direction of the transmission device, or, there is an angle between the plane of the annulus of the inner ring and the extending direction of the transmission device.

4. The assembly of claim 1, wherein

the transmission device is connected to the inner ring and the outer ring respectively.

5. The assembly of claim 1, further comprising a first fixedly-connected device and a second fixedly-connected device;

the inner ring being a closed circular ring or the inner ring is a closeable circular ring composed of two or more arc structures;

the inner ring being detachably connected to the transmission device by the first fixedly-connected device;

the outer ring being a closed circular ring or the inner ring is a closeable circular ring composed of two or more arc structures;

and the outer ring being detachably connected to the transmission device by the second fixedly-connected device.

6. The assembly of claim 1, further comprising a first fixedly-connected device,

the inner ring being a closed circular ring or the inner ring is a closeable circular ring composed of two or more arc structures, and the inner ring being detachably connected to the transmission device by a first fixedly-connected device;

the outer ring being a closed circular ring or the outer ring being a closeable circular ring composed of two or more arc structures, wherein the outer ring is detachably connected to the transmission device by the first fixedly-connected device.

7. The assembly of any one of claims 2-6, further comprising a water mist/powder generator,

the water mist/powder generator being able to apply liquid, and/or mist, and/or powder onto the circumcision device and/or an action site of the circumcision prior to the circumcision, during the circumcision and/or after the circumcision.

8. The assembly of claim 7, wherein:

the outer ring comprises a vibration annular knife and an adjustable annular knife, to form an annular handle piece, the vibration annular knife being so operatively connected to the ultrasound sub assembly as to vibrate ultrasonically when in operation, the adjustable annular knife being

connected to an adjustable annular knife holder through a pin, also connected to the fixed annular knife holder through a spring to make the annular handle piece openable or closable.

9. The assembly of claim 7, wherein:

the ultrasonic generating device comprises a first ultrasonic vibrator and a second ultrasonic vibrator;

the outer ring comprises a first annular knife and a second annular knife,

the first ultrasonic vibrator and the second ultrasonic vibrator being respectively connected to the first annular knife and the second annular knife and able to transmit the ultrasonic vibration thereto respectively; and wherein the assembly further comprises a first scissor annular knife supporter, and a second scissor annular knife supporter to support the first annular knife and the second annular knife respectively.

10. The assembly of claim 1, wherein

the circumcision device further comprises a positioning cylinder and a cutting device;

the positioning cylinder and the cutting device comprising a first annular contact surface, and the cutting device comprising a second annular contact surface and the first annular contact surface and the second annular contact surface match with each other.

11. The assembly of claim 10, further comprising a water mist/powder generator; wherein

the water mist/powder generator is able to apply liquid, and/or mist, and/or powder onto the circumcision device and/or an action site of the circumcision prior to the circumcision, during the circumcision and/or after the circumcision.

12. The assembly of claim 10 or claim 11, wherein an angle between the first annular contact surface and an axis of the positioning cylinder is an acute angle.

13. The assembly of claim 12, wherein, the water mist/powder generator is disposed separately with respect to the ultrasonic generating device, the transmission device and the circumcision device; or,

the water mist/powder generator being partly or entirely integrated on the ultrasonic generating device, the transmission device and/or the circumcision device.

14. The assembly of claim 13, wherein the water mist/powder generator comprises a storage device and an spraying device; wherein the storage device is arranged on the transmission device for storing liquid and/or powder; the spraying device is openable and closable, the spraying device is disposed on an end of the storage device proximate to the circumcision device and is used for applying liquid and/or powder stored in the storage device to the circumcision device and/or the action site of the circumcision.

15. The assembly of claim 14, wherein, the ultrasonic generating device is connected to the water storage device and is able to transmit the plurality of ultrasonic waves to the water storage device to atomize the stored water or liquid medicine; and/or, the ultrasonic generating device further comprises a second ultrasonic generating device, the second ultrasonic generating device being connected to the water storage device and is able to transmit the plurality of ultrasonic waves to the water storage device to atomize the stored water or liquid medicine.