【CLAIMS】

【Claim 1】

A juice module comprising:

a juice drum accommodating a mesh body therein and coupled to an upper end of a main body;

a lid (400) including an inlet through which the juice object is input and coupled to an upper end of the juice drum; and

a screw (300) mounted inside the mesh body, having a spiral rib (310) formed on an outer circumferential surface, and receiving and grinded the juice object from the inlet,

wherein the screw (300) includes a crushing portion (340) cutting or crushing the juice object and a support surface (350) supporting a part of the juice object input into the inlet,

wherein the support surface (350) is formed so that one side extends from a rear surface of the crushing portion (340) and the other side is connected to a front end of the crushing portion (340),

wherein the crushing portion (340) intersects the support surface in a vertical direction, and is formed at a predetermined height to cut the juice object.

【Claim 2】

The juice module according to claim 1, wherein the crushing portion (340) is formed in a vertical direction with respect to the support surface (350), and a crushing blade (344) cutting or crushing the juice object is formed on an upper end of the crushing portion.

【Claim 3】

The juice module according to claim 1, wherein a locking step projection

(352) is formed on the support surface (350) in a partially protruding shape from an edge.

【Claim 4】

The juice module according to claim 1,

wherein the screw (300) further includes a transfer surface (330) transferring the juice object in a rotational direction of the screw (300), and

wherein the transfer surface (330) is a cross-section formed at a lower end of the crushing portion (340).

【Claim 5】

The juice module according to claim 1, wherein the screw (300) includes a transfer surface (330) is positioned in a radial direction with respect to the screw rotation shaft (320), and

wherein the transfer surface (330) is formed to a certain height and area.

【Claim 6】

The juice module according to claim 1, wherein the support surface (350) is formed so that one side is formed at a position relatively higher than that of the other side.

【Claim 7】

The juice module according to claim 1, wherein the crushing portion (340) includes an extension member (346) formed to extend in an outer direction of the support surface (350).

【Claim 8】

The juice module according to claim 1,

wherein the lid (400) further includes a crushing rib (460) formed on an inner surface in a vertical direction, and

wherein the crushing rib (460) cuts or crushes the juice object by

interaction with the crushing portion (340).

【Claim 9】

The juice module according to claim 1, wherein the inlet is formed as two or more paths.

【Claim 10】

The juice module according to claim 1, wherein the inlet includes a small diameter inlet and a large diameter inlet formed in a path different from that of the small diameter inlet.

【Claim 11】

The juice module according to claim 10,
wherein the large diameter inlet includes an input guide portion (440) guiding the juice object to be transferred to the screw (300).

【Claim 12】

The juice module according to claim 11, wherein the input guide portion (440) is continuously connected from the large diameter inlet, is formed inclined toward a central shaft of the screw (300) to assist a side of the juice object to start crushing by the screw (300).

【Claim 13】

The juice module according to claim 11, wherein a part of the input guide portion (440) is formed in a structure extending beyond an outside from an upper area of the mesh body.