What is claimed is:

1. A conveying apparatus that conveys a resin molded product away from one mold in which a resin injection portion is provided, wherein

the resin injection portion comprises a protruding portion that protrudes between at least a portion of the resin molded product and another mold, and

the conveying apparatus comprises:

a holding component that holds the resin molded product; and

a horizontal movement mechanism that moves the holding component which is holding the resin molded product in a horizontal direction so as to move the resin molded product away from the resin injection portion to an outer side of the protruding portion.

2. The conveying apparatus according to Claim 1, further comprising a vertical movement mechanism that moves the holding component which has been moved by the horizontal movement mechanism in a direction away from the one mold and towards the other mold.

3. The conveying apparatus according to Claim 2, further comprising a base component in which the holding component is movably provided, wherein

the horizontal movement mechanism comprises a guide mechanism that guides the holding component in a direction away from the resin injection portion, and a horizontal drive portion that causes the holding component to move along the guide mechanism, and

the vertical movement mechanism comprises a guide mechanism that guides the holding component in a vertical direction, and a vertical cam mechanism that enables the holding component to move in a vertical direction in conjunction with a horizontal movement of the holding component performed by the horizontal drive portion.

4. The conveying apparatus according to Claim 3, wherein the horizontal drive portion comprises a slide component that slides in a direction towards or in a direction away from the resin injection portion, and

the horizontal movement mechanism further comprises a link mechanism that enables the holding component to move in a direction away from the resin injection portion in conjunction with a movement of the slide component.

5. The conveying apparatus according to Claim 4, wherein a first horizontal cam mechanism is provided between the slide component and the link mechanism, and a second horizontal cam mechanism is provided between the link mechanism and the holding component.

6. The conveying apparatus according to any one of Claims 1 through 5, wherein the conveying apparatus further comprises a mold release mechanism that releases the resin molded product from the one mold, and

the horizontal movement mechanism moves the holding component in a horizontal direction in a state in which the resin molded product has been released from the one mold by the mold release mechanism.

7. The conveying apparatus according to Claim 6, wherein the holding component comprises suction pads that suction the resin molded product, and

the mold release mechanism is formed using suction force from the suction pads.

8. The conveying apparatus according to any one of Claims 2 through 5, further comprising conveying claws that hold the resin molded product by grasping it, and,

after the holding component has been moved in a direction away from the one mold towards the other mold using the vertical movement mechanism, the resin molded product is held using the conveying claws.

9. A resin molding apparatus comprising the conveying apparatus according to any one of Claims 1 through 8.

10. A conveying method for a resin molded product that employs the conveying apparatus according to any one of Claims 2 through 5, in which

the holding component that is holding the resin molded product which has been resin molded is moved in the horizontal direction by the horizontal movement mechanism so as to move away from the resin injection portion, and the holding component that has been moved away from the resin injection portion is then moved by the vertical movement mechanism in the direction of the other mold.

11. A resin molded product manufacturing method comprising:

a molding step in which resin molding is performed to produce the resin molded product; and

a conveying away step in which the resin molded product is conveyed away using the conveying apparatus according to any one of Claims 1 through 8.

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