CLAIMS

1. A molding die set (1),

comprising:

a first molding die (2) having a first molding chase (4), a plurality of cavity pieces (5), which constitutes a bottom part of a cavity, and a clamper (6), which is supported by the first molding chase (4) and which encloses the cavity piece (5) so as to form a cavity-concave section (6c);

a second molding die (3) having a second molding chase (9), two work supporting sections (14), which is supported by the second molding chase (9) and biased and on which a work (W) will be mounted, and a center insert (10), which is located between the work supporting sections (14); and

a pot (11) being provided to the second molding die (3), the pot (11) feeding resin for molding the work (W),

wherein the second molding die (3) further has a thickness adjusting mechanism (16), which makes the work supporting sections (14) absorb thickness variation of the work (W) and brings the work (W) into contact with the clamper (6) when the work (W) supported by the work supporting sections (14) is clamped with the clamper (6) of the first molding die (2);

wherein a wedge mechanism, which supports and fixes the work supporting sections (14) at a prescribed height, is provided between the work supporting sections (14) and the second molding chase (9); and

electric motors (23), which respectively adjust the heights of the cavity pieces (5), are provided in the first molding die (2).

2. The molding die set (1) according to claim 1,

wherein the cavity piece (5) is fixed to the first molding chase (4), and

the clamper (6) enclosing the cavity piece (5) is held by a first elastic member (7) and capable of moving with respect to the first molding chase (4).

3. The molding die set (1) according to claim 2,

wherein the clamper (6) is held by a first elastic member (7), whose elastic power is greater than that of a second elastic member (15) of the thickness adjusting mechanism (16) which biases the work supporting sections (14).

4. The molding die set (1) according to any one of claims 1-3,

wherein the cavity-concave section (6c) and the thickness adjusting mechanism (16) are provided on each side of the center insert (10).

5. The molding die set (1) according to any one of claims 1-4,

wherein a cavity piece adjusting mechanism (21), which adjusts a height of the cavity piece (5), is provided to the first molding die (2).

6. The molding die set (1) according to claim 1,

wherein the clamper (6) is fixed to the first molding chase (4) of the first molding die (2), and

a wedge mechanism (24), in which a wedge block (24a) is moved and brought into contact with the cavity piece (5), by a driving source (23), so as to adjust a height of the cavity piece (5), is provided to the first molding die (2).

7. The molding die set (1) according to any one of claims 1-6,

wherein a release film (8) is provided on a die face of the first molding die (2), which includes the cavity-concave section (6c).

8. A resin molding apparatus having the molding die set according to any one of claims 1-7.