CLAIMS

1. A riding type exercise machine comprising: an installation part to be installed on a floor surface; a seat part provided above the installation part and on which a user can ride; and a swing device provided between the installation part and the seat part for applying a reciprocal swing to the seat part, wherein

the swing device comprises a first drive mechanism for reciprocally swinging the seat part at least in a left and right direction and a second drive mechanism for reciprocally swinging the seat part at least in a vertical direction;

wherein the second drive mechanism reciprocally swings the seat part in a back and forth direction;

wherein the first drive mechanism and the second drive mechanism are driven by a single drive motor;

wherein the second drive mechanism includes a crank mechanism for converting the rotational drive force of the drive motor to an operation of a reciprocal movement in the vertical direction and transmitting the converted drive force to the seat part; and

wherein the crank mechanism includes a crank body elongated in the vertical direction, an upper end portion of the crank body is coupled to the first drive mechanism via a first joint part, and a lower end portion of the crank body is coupled to the second drive mechanism via a second joint part.

2. The riding type exercise machine according to claim 1, wherein the first drive mechanism includes a conversion part for converting a rotational drive force of the drive motor to an operation of a reciprocal movement in the left and right direction and transmitting the converted drive force to the seat part.

3. The riding type exercise machine according to any one of claims 1 to 2, wherein a swinging cycle of the seat part by the first drive mechanism and a swinging cycle of the seat part by the second drive mechanism are set to non-integer ratio.

4. The riding type exercise machine according to claim 1, wherein the seat part is configured for a user to be able to straddle and ride thereon.

5. The riding type exercise machine according to claim 1, wherein the seat part is formed as chair-shaped one provided with a seating part on which a user can sit down with one’s waist seated thereon, and above the seat part, there is provided an enclosure part surrounding the seating part and protruded upward.

6. The riding type exercise machine according to claim 5, wherein the enclosure part is formed so that a protrusion height thereof increases upward from a front side to a rear side.

7. The riding type exercise machine according to claim 5, in a front side below the seat part, there is formed a footrest part on which user’s feet can be placed.