CLAIMS

1. A mounting apparatus comprising:

a primary pedestal with a mounting stage installed thereon;

a gantry frame extending in a Y direction across the primary pedestal with the ends thereof supported on the primary pedestal in a manner movable in an X direction;

a mounting head supported on the gantry frame in a manner movable in the Y direction;

an X-direction linear motor for driving the gantry frame in the X direction;

a Y-direction linear motor for driving the mounting head in the Y direction;

a secondary pedestal arranged apart from the primary pedestal; and

a Y-direction load receiver installed on the secondary pedestal in a manner movable in the X direction and immovable in the Y direction, wherein

the X-direction linear motor includes an X-direction stator attached to the secondary pedestal and an X-direction mover attached to an end portion of the gantry frame, and wherein

the Y-direction linear motor includes a Y-direction stator attached to the gantry frame in a manner movable in the Y direction and a Y-direction mover attached to the mounting head,

the mounting apparatus further comprising a connection member connecting one end of the Y-direction stator and the Y-direction load receiver.

2. The mounting apparatus according to claim 1, wherein

the mounting head, the gantry frame, and the Y-direction linear motor are each in plural, and each mounting head is supported on each gantry frame and driven by each Y-direction linear motor in the Y direction, and wherein

the X-direction mover is attached to each end portion of each gantry frame and combined with the X-direction stator common to each end portion to form a plurality of the X-direction linear motors on the respective end portions.

3. The mounting apparatus according to claim 2, wherein

the Y-direction load receiver is in plural and installed on a common member of the secondary pedestal, and wherein

the connection member is in plural and each connection member connects each Y-direction stator and each Y-direction load receiver.

4. The mounting apparatus according to claim 2, further comprising:

position detection sensors for detecting the X-direction position of each X-direction mover with respect to the primary pedestal; and

a control unit for feeding back X-direction position data of each X-direction mover detected by each position detection sensor to control the position of each X-direction mover.

5. The mounting apparatus according to claim 3, further comprising:

position detection sensors for detecting the X-direction position of each X-direction mover with respect to the primary pedestal; and

a control unit for feeding back X-direction position data of each X-direction mover detected by each position detection sensor to control the position of each X-direction mover.

6. The mounting apparatus according to claim 2, further comprising:

position detection sensors for detecting the Y-direction position of each Y-direction mover with respect to the gantry frame supported on the primary pedestal; and

a control unit for feeding back Y-direction position data of each Y-direction mover detected by each position detection sensor to control the position of each Y-direction mover.

7. The mounting apparatus according to claim 3, further comprising:

position detection sensors for detecting the Y-direction position of each Y-direction mover with respect to the gantry frame supported on the primary pedestal; and

a control unit for feeding back Y-direction position data of each Y-direction mover detected by each position detection sensor to control the position of each Y-direction mover.

8. The mounting apparatus according to claim 1, wherein

the Y-direction stator is attached to the gantry frame via a connection structure having a Y-direction degree of freedom.

9. The mounting apparatus according to claim 6, wherein

the connection structure is a plate spring.