

CLAIMS

1. A bonding apparatus, comprising:
 - a table that is provided movably in a first direction with respect to a pedestal;
 - a first reaction member and a second reaction member that are respectively provided movably in the first direction with respect to the pedestal; and
 - a first direction driving unit that includes a coil and a magnet, and respectively drives the table, the first reaction member, and the second reaction member in the first direction, wherein:
 - the first reaction member and the second reaction member are each configured to move in a direction opposite to the table in the first direction when the table moves in the first direction;
 - the first reaction member and the second reaction member are respectively arranged on both sides of the table in a second direction perpendicular to the first direction and are respectively supported by the pedestal at both sides in the second direction;
 - the first reaction member and the second reaction member are arranged such that the centers of gravity of the first reaction member and the second reaction member are at positions based on a center of gravity of the table;
 - the table is provided movably in the second direction with respect to the pedestal;
 - one of the magnet and the coil is provided on the table; and
 - the other one of the magnet and the coil is provided on the first reaction member and the second reaction member.
2. The bonding apparatus according to claim 1, wherein:
 - the table, the first reaction member, and the second reaction member are respectively arranged such that the centers of gravity of the table, the first reaction member, and the second reaction member are at positions based on a center of gravity of the pedestal.
3. The bonding apparatus according to claim 1 or 2, wherein:
 - a position of the centers of gravity of the first reaction member and the second reaction member coincides with a position of the center of gravity of the table in the first direction, the second direction, and a third direction perpendicular to the first direction and the second direction.

4. The bonding apparatus according to claim 1, wherein:
the table is configured to move over a relatively long distance in the first direction, and to move over a relatively short distance in the second direction.
5. The bonding apparatus according to claim 1 or 4, wherein:
the table is configured to move at a relatively high rate of acceleration in the first direction, and to move at a relatively low rate of acceleration in the second direction.
6. The bonding apparatus according to any one of claims 1 to 5, wherein:
a bonding head used for bonding is provided on the table.