CLAIMS

1. A motor comprising:

a vibrator;

a plurality of pressing members that presses the vibrator onto a contacting member in contact with the vibrator;

a transmission member that transmits pressing force, which is applied by the plurality of pressing members, to the vibrator;

a first holding member that holds the vibrator;

a second holding member that holds the transmission member; and

a coupling member that couples the first holding member to the second holding member;

wherein the vibrator and the contacting member move relatively by vibrations that occur in the vibrator,

wherein the vibrator includes a protruding part that is provided on a surface opposite to a surface on a transmission member side,

wherein the plurality of pressing members is arranged separately to surround the protruding part, and

wherein the coupling member is arranged at a position closer to the protruding part than the plurality of pressing members in a relative movement

direction of the vibrator and the contacting member, and in a direction orthogonal to both of the relative movement direction of the vibrator and the contacting member and a pressing direction of the plurality of pressing members.

2. The motor according to claim 1,

wherein the transmission member includes a pressing part that transmits the pressing force to the vibrator, and coupling holding members that respectively couple and hold each of the plurality of pressing members, and

wherein the coupling member is arranged at the same position as the pressing part and the coupling holding members in a pressing direction of the plurality of pressing members.

3. The motor according to claim 1 or 2, wherein the transmission member positions the coupling member in a direction orthogonal to both of a relative movement direction of the vibrator and the contacting member and a pressing direction of the plurality of pressing members.

4. The motor according to any one of claims 1 to 3, wherein the coupling member includes a rolling member that relatively moves the first and second holding

members in a pressing direction of the plurality of pressing members, and an urging member that urges the first and second holding members in a direction parallel to a relative movement direction of the vibrator and the contacting member.

5. A motor that enables a vibrator and a contacting member in contact with the vibrator to move relatively by vibrating the vibrator, the motor comprising:

a pressing mechanism that includes a plurality of elastic members and a transmission member transmitting force by the plurality of elastic members to the vibrator, and that presses the vibrator onto the contacting member;

a first member that holds the vibrator;

a second member that holds the pressing mechanism; and

a coupling member that couples the first holding member to the second holding member,

wherein the coupling member includes a rolling member that enables the first and second members to relatively move in a pressing direction of the pressing mechanism,

wherein the plurality of elastic members is arranged around the vibrator in a plane orthogonal to the pressing direction, and

wherein the rolling member is arranged at a

position closer to the vibrator than the plurality of elastic members in at least one direction of a relative movement direction of the vibrator and the contacting member or a direction orthogonal to both of the pressing direction and the relative movement direction.

6. The motor according to claim 5, wherein the plurality of elastic members is arranged to surround the vibrator in the plane orthogonal to the pressing direction.

7. The motor according to claim 5 or 6, wherein the transmission member includes a protruding part that is provided to overlap with the vibrator in the pressing direction, and a plurality of holding members that extends in the relative movement direction compared to the protruding part and that respectively holds each of the plurality of elastic members.

8. The motor according to claim 7,

wherein the plurality of elastic members is tension springs,

wherein the pressing mechanism includes spring holding members that respectively hold a first end of each of the tension springs, and

wherein the plurality of holding members respectively holds a second end of each of the tension

springs.

9. The motor according to any one of claims 5 to 8,

wherein the coupling member includes a first rolling member and a second rolling member as the rolling member, and

wherein the first and second rolling members are arranged to sandwich the vibrator in the relative movement direction.

10. The motor according to claim 9, wherein the coupling member includes an urging member that urges either of the first or second rolling member in the relative movement direction.

11. The motor according to claim 10, wherein the either of the first or second rolling member, which is urged by the urging member, is larger than the other, which is not urged by the urging member.

12. The motor according to any one of claims 9 to 11, wherein the first and second rolling members are arranged so that each rotation axis is orthogonal to both of the relative movement direction and the pressing direction.

13. The motor according to any one of claims 5 to 12,

wherein the transmission member positions the coupling member in the direction orthogonal to both of the relative movement direction and the pressing direction.

14. The motor according to any one of claims 1 to 13, wherein the vibrator includes a vibration plate that contacts the contacting member, and a piezoelectric element that excites ultrasonic vibration by being applied with a voltage.

15. An electronic apparatus comprising a motor according to any one of claims 1 to 14.