WHAT IS CLAIMED IS:

1. An end effector, which is connected to a wafer transfer robot, comprising:

a main member having a first room on a side thereof;

a sensor received in the first room to sense vibration of the main member; and

a lid fixed to the main member to cover the sensor;

whereby the sensor transmits a vibration signal to a central controller when the main member is vibrating;

wherein the main member further has a second room, and the second room is communicated with the first room; a wire is received in the second room and connected to the sensor; the lid covers the wire as well;

wherein the main member further has a third room, and the first and the second room are provided on a bottom of the third room; the lid is received in the third room.

2. The end effector of claim 1, wherein the main member is provided with threaded holes on the bottom of the third room while the lid is provided with bores accordingly; a plurality of screws are inserted into the bores and screwed into the threaded holes respectively.

3. The end effector of claim 1, wherein a thickness of the sensor is no greater than a thickness of the main member.

4. The end effector of claim 1, wherein a top of the lid is no higher than the side of the main member.

5. The end effector of claim 1, wherein the main member is provided with a holding device for holding a wafer carried by the end effector.

6. The end effector of claim 5, wherein the holding device has a frictional pad to provide the wafer with friction.

7. The end effector of claim 5, wherein the holding device has a sucker, and the sucker has a channel; the main member is provided with an airway, and the airway is covered by the lid as well; the airway is connected to the channel of the sucker, whereby air in the sucker

is pumped out through the channel and the airway.

8. The end effector of claim 1, wherein an airway is provided on the bottom of the third room, and the airway is covered by the lid as well; a sucker is provided on the main member and connected to the air way, whereby air in the sucker is pumped out through the airway.