Claims

1. A door with an embedded protecting device, comprising a door sheet and a door frame, the door sheet being connected with the door frame through hinges, characterized by further comprising an elastic sheet and/or an elastic column, and one end of the elastic sheet and/or the elastic column being fixedly connected with the inner side of a vertical frame; a first clamped board and a second clamped board being also arranged inside the door sheet, and the first clamped board and the second clamped board being fixedly connected with the inner side of the door sheet ~~frame~~ to form a hollow area which receives ~~matches~~ ~~with~~ the elastic sheet and/or the elastic column; and the hollow area further including an opening and a bottom which are positioned on different sides inside the door sheet, and the elastic sheet and/or the elastic column extending into the hollow area from the opening characterized in that the door comprises a first bearing and a second bearing, wherein the first bearing is positioned on the top of the first clamped board and the second bearing is positioned under the first bearing.

2. The door according to claim 1, characterized in that the door further comprises a bearing, and an inner ring of the bearing is fixed on the first clamped board through a fixing device which comprises a bolt.

3. The door according to claim 2, characterized in that the distance from the bearing to the opening is 0-25cm.

4. The door according to claim 3, characterized in that at least one bearing is provided.

5. The door according to claim 4, characterized in that one bearing is provided, and the difference between the distance from the bearing to the top of the first clamped board and the distance from the bearing to the bottom of the first clamped board is 0-8cm.

~~6. The door according to claim 4, characterized in that the door comprises a first bearing and a~~

~~second bearing, wherein the first bearing is positioned on the top of the first clamped board and the second bearing is positioned under the first bearing.~~

7. The door according to claim 6, characterized in that the first clamped board and/or the second clamped board form/forms cavities/a cavity with a door panel.

8. The door according to claim 7, characterized in that the cavities/cavity are/is filled with fillers.

~~9. The door according to claim 1, characterized in that two opposite sides of the first clamped board and the second clamped board are smooth surfaces.~~