Claims

1. A fitting element for fitting to a circuit board, with:

a first fitting section for connection with a spacer element;

a second arresting section for arresting with a circuit board; and

a central section, arranged between the fitting section and the arresting section for forming a first stop for the spacer element and a second stop for the circuit board;

wherein an end of the second arresting section forms an assembly area serving as a suction area for pneumatically holding the fitting element.

2. A fitting element according to claim 1, wherein the assembly area (A) is designed flat.

3. A fitting element according to claim 1 or 2, wherein the assembly area extends vertically to a central longitudinal axis of the fitting element.

4. A fitting element according to any one of claims 1 to 3, wherein the second arresting section comprises a predetermined deformation point in the region of the assembly area.

5. A fitting element according to claim 4, wherein the predetermined deformation point is a predetermined breaking point.

6. A fitting element according to any one of claims 1 to 3, wherein the second arresting section comprises at least two arresting arms, arranged at a distance from each other and connected by a wall at their ends.

7. A fitting element according to claim 6, wherein the wall forms a predetermined deformation point.

8. A fitting element according to any one of claims 1 to 7, wherein the fitting section is designed as a first arresting section comprising a support pin, arranged concentrically to a central longitudinal axis, on which at least one first arresting projection is formed.

9. A fitting element according to claim 8, wherein several first arresting projections are formed on the support pin along the central longitudinal axis.

10. A fitting element according to any one of claims 1 to 9, wherein the fitting section narrows towards a free end.

11. A fitting element according to any one of claims 1 to 10, wherein the second arresting section is designed with at least one second arresting projection and narrows in the direction of a free end, starting from the at least one second arresting projection.

12. A fitting element according to any one of claims 1 to 11, wherein the fitting section, the arresting section and the central section are made from a plastic material that is resistant up to a temperature of at least 240°C.

13. A fitting element according to any one of claims 1 to 12, wherein the fitting section, the arresting section and the central section are made from an electrically insulating plastic material.

14. A fitting element according to any one of claims 1 to 13, wherein the fitting section, the arresting section and the central section are designed together as a single piece.

15. A fitting device for the spaced connection of circuit boards, with:
a spacer element for fitting to a first circuit board;
a fitting element as defined in any one of claims 1 to 14 for fitting to a second circuit board, wherein the fitting section is connected with the spacer element.

16. A fitting device according to claim 15, wherein the spacer element for soldering to the first circuit board is made from a metal.

17. A method for the spaced connection of circuit boards, the method comprising:

provision of a first circuit board and a second circuit board to be connected with the same;

provision of several spacer elements and associated fitting elements as defined in any one of claims 1 to 14, which are connected with each other;

fitting the spacer elements to a first circuit board; and

arranging the second circuit board on the fitting elements.

18. A method for the spaced connection of circuit boards according to claim 17, wherein the spacer elements are fitted to the first circuit board through soldering the spacer elements to the first circuit board.

19. A method for the spaced connection of circuit boards according to claim 17 or 18, wherein the second circuit board is arranged on the fitting elements in such a way that the second arresting sections are arrested with the second circuit board.