Patent Claims

1. Method of producing induction components (15), having the following method steps:

- a winding operation is carried out for a multiplicity of coils (5) arranged one beside the other and having parallel coil axes;

- the coils (5) are embedded at intervals in a block (8) made of pressed substrate;

- the interior of the coils (5) in the block (8) is filled with the substrate, which is present in powder form;

- the substrate powder is pressed;

- the two ends of the winding of all the coils (5) are exposed;

- the exposed ends of the coil windings are provided with connection contacts (14);

- the block (8) is then divided up to form the individual induction components (15) each containing at least one coil (5).

2. Method according to Claim 1, wherein the block (8) is formed by virtue of the substrate powder being pressed around the coils (5) arranged therein.

3. Method according to Claim 1, wherein the block (8) is produced with a respective cavity, which corresponds in shape and size at least to one coil (5) of the multiplicity of coils (5), and the coils (5) are inserted into the respective cavity.

4. Method according to one of the preceding claims, wherein, in order to produce the coils (5), use is made of a template (1) with a multiplicity of stubs (3), which are arranged one beside the other and run parallel to one another and around which a wire (4) is wound.

5. Method according to Claim 4, wherein the template with the coils (5) wound on its stubs (3), is incorporated in a moulding press (6), and then the substrate powder is applied to the template (1) and pressed in the moulding press (6).

6. Method according to Claim 5, wherein, once the substrate powder has been pressed, the template (1) is removed from the block (8) generated by virtue of the substrate powder being pressed, the block (8) is incorporated in a moulding press (10), and then substrate is filled up into the moulding press (10), in order to fill the interior of the coils (5), and pressed.

7. Method according to Claim 6, characterized in that the interior of the coils is filled up, at least in part, with a prefabricated core.

8. Method according to one of the preceding claims, wherein, prior to the connection contacts (14) being applied, incisions are cut into the upper side of the block (8), between the individual regions containing the coils (5), part of the way along the height of the block, and the connection contacts (14) are also applied to the walls of the incisions (13).

9. Method according to Claim 8, wherein the incisions (13) are made at the location where the block (8) is later divided up to form the individual induction components (15).

10. Method according to one of the preceding claims, wherein the coils (5) are arranged in a matrix-like arrangement, in rows and columns, in the block (8).

11. Method according to one of the preceding claims, wherein, once the ends of the winding of all the coils (5) have been exposed, strip-like masking (12) takes place.

12. Method according to one of the preceding claims, characterized in that the block (8) is pressed isostatically, in particular in a liquid-filled pressure vessel.

13. Method according to one of the preceding claims, characterized in that the operation of exposing the ends of the coil windings takes place by means of mechanical removal.

~~14. Induction component, capable of being produced by a method according to one of the preceding claims.~~