

ABSTRACT OF DISCLOSUREMETHOD OF MANUFACTURING BEAD INDUCTOR AND APPARATUS FOR
MANUFACTURING SAME

A method of producing a bead inductor includes the steps of forming an outer portion outside of a conductor coil via molding, and forming a molded body with the conductor coil embedded therein. The outer portion is formed outside of the conductor coil by disposing the conductor coil in a cavity defined by a first mold portion and a second mold portion, with a first gate and a second gate being formed in the first mold portion, inserting a first spacer pin portion and a second spacer pin portion, which when brought into contact with each other define a spacer pin which passes through a core of the conductor coil and extends up to the second gate to close the second gate, and supplying rubber or resin material containing magnetic powder into the mold cavity from the first gate. The molded body with the conductor coil embedded therein is formed by closing the first gate after the formation of the outer portion, pulling out the first spacer pin portion and the second spacer pin portion in the mold cavity, and supplying from the second gate rubber or resin material containing magnetic powder into a space which is formed as a result of the removal of the first spacer pin portion and the second spacer pin portion so as to pass through the core of the conductor coil, whereby an inner portion is formed inside of the conductor coil via molding.

FIG. 1

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