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Application

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Abstract (en)

[origin: WO9739463A1] A number of types of transformer are proposed for possible use as basic electrical equipment in power stations, substations, power transmission lines, in radio engineering, and in measurement and automatic control and regulation systems. The invention is based on the principle that the primary coil comprises two sections wound and connected to one another in such a way that the magnetic flux generated by one such section when the transformer is in operation balances the magnetic flux generated by the other section. The transformer contains a magnetic circuit and a primary coil in two sections wound onto the circuit core in one direction with the same number of turns. The two coil sections are connected at their ends while the starts of the windings serve as power source inputs. The secondary coil is wound over the primary coil on the same magnetic circuit core, and a load RH is connected to it. The proposed transformer variants are characterised by the fact that the primary coil sections are wound onto one magnetic circuit core (3 variants) or onto two cores of one magnetic circuit (4 variants), by the respective winding directions (identical or opposite) of the sections and thus by the different coil connections, and also by the presence of a secondary coil (absent in one variant).

IPC 8 full level

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CPC (source: EP KR)

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