

DESCRIPTION

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BI-TOROID TRANSFORMER

ABSTRACT OF THE DISCLOSURE

The invention provides a means of increasing transformer efficiency above 100%. The transformer consists of a single primary coil and two secondary coils. The two secondary coils are set on a secondary core toroid which is designed to be maintained at a lower reluctance than the primary core toroid throughout the transformer's entire operating range. When the transformer secondary delivers current to a load the subsequent induced back EMF is not allowed to couple back to the primary due to the higher reluctance flux path. Instead the secondary coil's induced back EMF follows the path of least reluctance into the adjacent secondary coil.