

Title (en)  
INDUCTIVE COMPONENT

Title (de)  
INDUKTIVES BAUTEIL

Title (fr)  
COMPOSANT INDUCTIF

Publication  
**EP 2867906 A1 20150506 (DE)**

Application  
**EP 13818687 A 20131209**

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Abstract (en)  
[origin: WO2014139607A1] The invention relates to an inductive component (1) with the following features: - a magnetic circuit (10) made of a magnetically soft core material, - said magnetic circuit (10) having at least one gap (20) which extends in the Y direction (1) from a first end-side free end (12) of the core material to an opposite second end-side end (14) of the core material, - at least one coil (30) which is wound around at least one part of the core material, and - a permanent magnet unit (50) which consists of multiple mutually spaced individual permanent magnet elements (51), each of which has a magnetizing direction, said directions being oriented in an at least approximately identical manner to the Y direction (Y). According to the invention, the individual permanent magnets (51) are stacked next to one another in a mutually spaced manner primarily in a direction which is at least approximately orthogonal to the Y direction (Y). The advantages of the invention are high magnetic biasing of the inductor by means of the permanent magnets, little power loss, a simple production, and a high fill factor.

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Citation (search report)  
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