

Title (en)  
MAGNET SENSOR ARRANGEMENT

Title (de)  
MAGNETSENSORANORDNUNG

Title (fr)  
SYSTEME DE CAPTEURS MAGNETIQUES

Publication  
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Application  
**EP 05701536 A 20050118**

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Abstract (en)  
[origin: WO2005088259A1] The invention relates to a magnet sensor arrangement (1) containing sensor elements (7,8) that are sensitive to magnetic fields, the electrical properties of said elements being modifiable according to a magnetic field that can be influenced by a mobile passive transmitter (11). Said magnet sensor arrangement (1) comprises two sensor elements (7,8) in a gradiometer arrangement, that are respectively associated with one of two magnetic regions (4, 5) of a permanent magnet embodied as a gap magnet (2;20;23), said regions being arranged at a pre-determined distance (sa). The magnetic regions (4,5) and the gap magnet (2;20;23) are arranged, in terms of, for example, the wedge shape, dimensions (h,b,t), gap length (sa), gap depth (st), and positions thereof in relation to the sensor elements (7,8), in such a way that the offset of the output signal of the sensor elements (7,8) is minimised in the gradiometer arrangement.

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