

Title (en)  
SOLENOIDAL MAGNET WITH HOMOGENEOUS MAGNETIC FIELD.

Title (de)  
ELEKTROMAGNET ZUR ERZEUGUNG EINES HOMOGENEN MAGNETFELDES.

Title (fr)  
AIMANT SOLENOIDAL A CHAMP MAGNETIQUE HOMOGENE.

Publication  
**EP 0204742 A1 19861217 (FR)**

Application  
**EP 85905843 A 19851129**

Priority  
FR 8419191 A 19841214

Abstract (en)  
[origin: WO8603882A1] Solenoidal resistive magnet with homogeneous field, particularly for MNR imaging. According to the invention, the magnet comprises a plurality of coils (13, 14, 15) preferably Bitter coils and certain parameters such as the lengths of the coils ( $b_i - b'_i$ ), the distances which separate them ( $b'_{i+1} - b_i$ ), their outer diameter ( $a_2$ ) are selected in order to optimize the product power-mass of the magnet.

Abstract (fr)  
Aimant solénoïdal résistif à champ homogène, notamment pour l'imagerie RNM. Selon l'invention, l'aimant comporte plusieurs bobines (13, 14, 15) de préférence des bobines de Bitter et certains paramètres tels que les longueurs des bobines ( $b_i - b'_i$ ), les distances qui les séparent ( $b'_{i+1} - b_i$ ), leur diamètre extérieur ( $a_2$ ) sont choisis pour optimiser le produit Puissance-Masse de l'aimant.

IPC 1-7  
**H01F 7/20**

IPC 8 full level  
**G01R 33/381** (2006.01); **H01F 7/20** (2006.01); **G01R 33/38** (2006.01)

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See references of WO 8603882A1

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