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(71) Applicant (for all designated States except US): **KONINKLIJKE PHILIPS ELECTRONICS N. V.** [NL/NL];
Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **BOEVE, Hans, M. B.** [BE/BE]; c/o High Tech Campus Building 44, NL-5656 AE Eindhoven (NL).(74) Agents: **SCHOUTEN, Marcus, M.** et al.; High Tech Campus Building 44, NL-5656 AE Eindhoven (NL).

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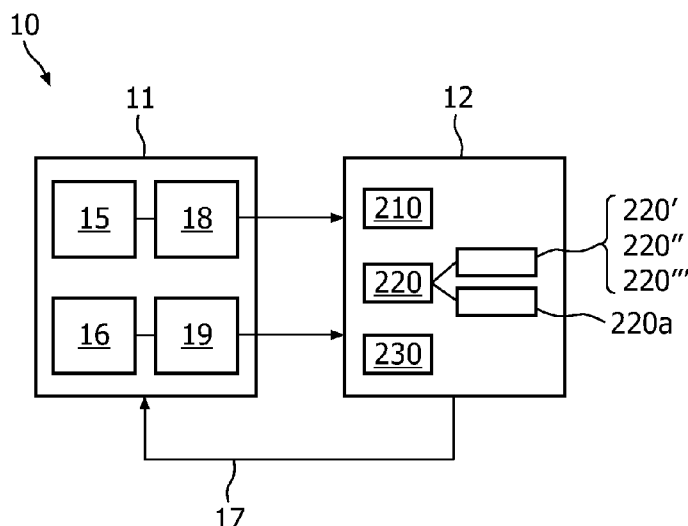
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(54) Title: ARRANGEMENT AND METHOD FOR INFLUENCING AND/OR DETECTING MAGNETIC PARTICLES IN A REGION OF ACTION

**FIG. 5**

(57) Abstract: An arrangement and a method for influencing and/or detecting magnetic particles in a region of action is disclosed, which arrangement comprises: - selection means (210) for generating a magnetic selection field (211) having a pattern in space of its magnetic field strength such that a first sub-zone (301) having a low magnetic field strength and a second sub-zone (302) having a higher magnetic field strength are formed in the region of action (300), - drive means (220) for changing the position in space of the two sub-zones (301, 302) in the region of action (300) by means of a magnetic drive field (221) so that the magnetization of the magnetic particles (100) changes locally, - receiving means (230) for acquiring signals, which signals depend on the magnetization in the region of action (300), which magnetization is influenced by the change in the position in space of the first and second sub-zone (301, 302), - a control unit (11) for controlling the drive means and/or the selection means and/or the receiving means in such a way that - in a first mode of operation, the position in space of the two sub-zones is changed at a first frequency, and - in a second mode of operation, the position in space of the two sub-zones is changed at a second frequency,

frequency, the second frequency being at least twice as high as the first frequency.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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☒ Further documents are listed in the continuation of Box C.

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European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040,
Fax: (+31-70) 340-3016

Authorized officer

Pereda Cubián, David

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