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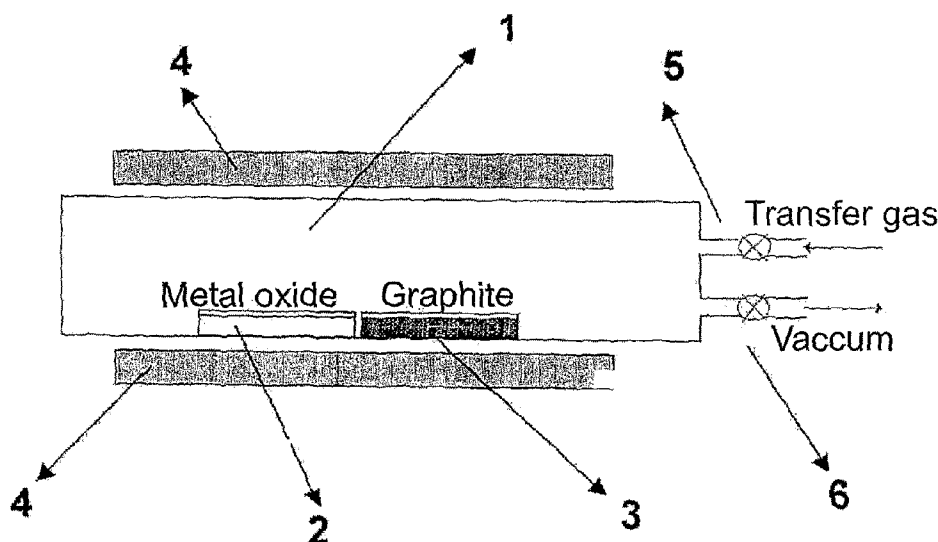
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(54) Title: A PROCESS OF PREPARING MAGNETIC GRAPHITIC MATERIALS, AND MATERIALS THEREOF



(57) Abstract: A process of preparing magnetic graphitic materials from graphite in a second container (3) that reacts with one of more transition metal oxide and in a first container (2) at a volume ratio of 1:1, in a closed reactor (1), heated up to a temperature between 600°C and the melting temperature of the transition oxide (s) for 6 to 36 hours, under a pressure of 10 atmospheres with the help of a transfer inert gas through an inlet (5) and vacuum between 10⁻² torr to 10⁻⁷ torr through an outlet (6), obtaining at the end of the process a graphitic material with long-lasting magnetic properties at room temperature. The material obtained exhibits a complex structure, with pores, bunches, pilings and edges of exposed graphenes and finds application in nanotechnology, magnetic images in medical science, applications in communication, electronics, sensors, even biosensors, catalysis or separation of magnetic materials.

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P132951-PCT	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/BR2005/000110	International filing date (day/month/year) 15/06/2005	(Earliest) Priority Date (day/month/year) 16/06/2004
Applicant UNIVERSIDADE FEDERAL DE SAO CARLOS		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the title,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

A PROCESS OF PREPARING MAGNETIC GRAPHITIC MATERIALS, AND MATERIALS THEREOF

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 1

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.