Title: RESIN IMPREGNATED ELECTRICAL BUSHING

Abstract: A resin impregnated electrical bushing. The bushing (1) comprises a wound structure (2) formed by winding electrical grade crepe paper or craft paper (3) on a hollow central conductor rod (4) with conductor foils (5) inserted at regular intervals radially within the paper insulation and impregnated with an electric grade epoxy resin (6). The central conductor rod comprises a plurality of circumferential grooves (7) along the outer surface thereof in radially spaced apart relationship having the impregnating resin penetrating into the grooves to provide a mechanical interlock between the resin impregnated solid mass of paper and the central conductor.

Published:
— of inventorship (Rule 4.17(iv))
— with international search report (Art. 21(3))
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

Date of publication of the international search report: 8 December 2011
INTERNATIONAL SEARCH REPORT

International application No. PCT/IN 2011/00196

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - H01B 17/26 (201 1.01 )
USPC - 174/152R
According to International Patent Classification (IPC) or to both national classification and IPC.

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
USPC: 174/152R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
IPC(B): H01B 17/26 (201 1.01); USPC: 174/152R, 137R, 142; 16/2.1, 2.2; 29/592.1
(keyword limited; terms below)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Pub/WEst(USPT,PGPB,EPAB,JPAB); Google Scholar
Search Terms: craft, crepe, paper, winding, wrapping, electricity, electrical, groove, slot, aluminum, a.i.insulation, epoxy, glue resin, adhesive, tube, cylinder, rod, conductor, pipe, bushing, lamination, gold, au, ag, metal, copper, cu.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category*</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>US 2008/0179077 A1 (KRIVDA et al.) 31 July 2008 (31.07.2008), entire document, especially; FIG 1, para [0002], [0027], [0032], [0047], [0049], [0052], [0054], [0055], [0056], [0060].</td>
<td>1-2</td>
</tr>
<tr>
<td>Y</td>
<td>US 2009/0033203 A1 (Sjoberg et al.) 05 February 2009 (05.02.2009), entire document, especially; FIG 1, para [0001], [0003], [0007], [0079]</td>
<td>1-2</td>
</tr>
<tr>
<td>A</td>
<td>US 5,892,303 A (WAYMAN et al.) 06 April 1999 (06.04.1999), entire document.</td>
<td>1-2</td>
</tr>
</tbody>
</table>

Further documents are listed in the continuation of Box C.

* Special categories of cited documents:
  "A" document defining the general state of the art which is not considered to be of particular relevance
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  "P" document published prior to the international filing date but later than the priority date claimed
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Date of the actual completion of the international search 03 October 2011 (04.10.2011)
Date of mailing of the international search report 19 OCT 2011

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