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(54) Title: HIGH WHITENESS METAKAOLIN AND HIGH WHITENESS FULLY CALCINED KAOLIN

(57) Abstract: The present invention relates to calcined kaolins having optimal whiteness and brightness properties. The calcined kaolins can comprise metakaolin, fully calcined kaolin, or flash calcined kaolin. The kaolin can be calcined from hydrous kaolin that has been subjected to enhanced magnetic separation. The resulting calcined kaolin can have a whiteness defined by a Hunter lab coordinate L value of at least about (96). The calcined kaolin can also have a brightness of at least about (90), as measured by a Technibrite TB-1 C instrument. The present invention also relates to methods of preparing calcined kaolins. The present invention also relates to paints, polymers, coatings, ceramics, paper, and cementitious products comprising these calcined kaolins.



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INTERNATIONAL SEARCH REPORT

PCT/US2004/018934

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 C09C1/42 C04B33/04

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)
 IPC 7 C09C C04B

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

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 006 920 A (BILIMORIA ET AL) 28 December 1999 (1999-12-28) cited in the application column 2, line 60 - column 3, line 24 column 3, line 59 - column 4, line 47 column 5, line 4 - line 20 column 6, line 40 - line 63 column 7, line 49 - column 8, line 26; example 1	1-52
X	WO 03/024888 A (IMERYS PIGMENTS, INC) 27 March 2003 (2003-03-27) cited in the application examples 3,4	23-52
A	US 4 661 164 A (SEVERINGHAUS, JR. ET AL) 28 April 1987 (1987-04-28) the whole document	1-52
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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A	US 5 522 924 A (SMITH ET AL) 4 June 1996 (1996-06-04) figure 1; examples 3,4 -----	1-52

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