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[54] MANUFACTURING METHOD FOR BISPHENOLS AND A MANUFACTURING METHOD FOR POLYCARBONATE

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References Cited

U.S. PATENT DOCUMENTS

4,931,146 6/1990 Iimuro et al. 203/92

5,180,676 1/1993 Ichikawa et al. 435/383

FOREIGN PATENT DOCUMENTS

63-132850 6/1988 Japan . 2028126 1/1990 Japan . 8325184 12/1996 Japan .

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[57] ABSTRACT

A phenol and a ketone are reacted to form bisphenol, and the liquid bisphenol obtained or a mixed solution of said solution and a phenol is filtered through a calcined metal filter to obtain bisphenol which makes it possible to efficiently obtain bisphenol which either does not contain fine particulate impurities or contains such impurities only in minute amounts, and a method for manufacturing polycarbonate using bisphenol obtained by this method. The filtration grade of the calcined metal filter should be 1.0 μ m or less. After filtering, the calcined metal filter can be backwashed or chemically washed and then reused. The bisphenol should preferably be bisphenol A.

15 Claims, 2 Drawing Sheets

