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Liao et al.

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(54) **PLASTICIZER AND METHOD FOR MANUFACTURING THE SAME**

(58) **Field of Classification Search**
None
See application file for complete search history.

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(56) **References Cited**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 664 days.

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(57) **ABSTRACT**

(30) **Foreign Application Priority Data**

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A plasticizer and a method for manufacturing the plasticizer are provided. The method includes steps as follow. A dicarboxylic acid, a diol, and a catalyst are mixed to form a reactant mixture. The reactant mixture is reacted at a temperature ranging from 130° C. to 220° C. to form a semi-product. An endcapping alcohol into the semi-product at a temperature ranging from 205° C. to 220° C. to form a coarse plasticizer. The coarse plasticizer is purified under a pressure ranging from 760 Torr to 5 Torr to obtain the plasticizer. The dicarboxylic acid includes a first dicarboxylic acid and a second dicarboxylic acid, and the second dicarboxylic acid is adipic acid. The diol includes diethylene glycol and 2-methyl-1, 3-propanediol. The endcapping alcohol includes isooctyl alcohol, isodecyl alcohol, or 2-propylheptanol. A molar ratio of dicarboxylic acid:diol:the endcapping alcohol ranges from 1:0.6 to 0.9:0.3 to 0.6.

(51) **Int. Cl.**

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(52) **U.S. Cl.**

CPC **C08G 63/16** (2013.01); **C08G 63/85** (2013.01)

10 Claims, 1 Drawing Sheet

