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Liao et al.

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

(71) Applicant: **NAN YA PLASTICS CORPORATION**, Taipei (TW)
(72) Inventors: **Te-Chao Liao**, Taipei (TW); **Cheng-Li Chao**, Taipei (TW); **Chao-Tung Wu**, Taipei (TW); **Jung-Tsu Wu**, Taipei (TW)

(73) Assignee: **NAN YA PLASTICS CORPORATION**, Taipei (TW)

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None
See application file for complete search history.

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Primary Examiner — Ha S Nguyen
(74) *Attorney, Agent, or Firm* — Li & Cai Intellectual Property (USA) Office

(57) **ABSTRACT**

A plasticizer and a method for manufacturing the plasticizer are provided. The method for manufacturing the plasticizer includes steps as follows: mixing a dicarboxylic acid, a diol, and a catalyst to form a reactant mixture; reacting the reactant mixture at a temperature ranging from 130° C. to 220° C. so as to form a semi-product; adding an endcapping alcohol into the semi-product at a temperature ranging from 205° C. to 220° C. so as to form a coarse plasticizer; purifying the coarse plasticizer under a pressure ranging from 760 Torr to 5 Torr so as to obtain the plasticizer. The dicarboxylic acid includes adipic acid. The diol includes a polyglycol and a saturated fatty alcohol. The endcapping alcohol includes isooctyl alcohol, isodecyl alcohol, or 2-propylheptanol. The dicarboxylic acid, the diol, and the endcapping alcohol have a molar ratio ranging from 1:0.6 to 0.9:0.3 to 0.6.

9 Claims, 1 Drawing Sheet

