



US012492286B2

(12) **United States Patent**
Liao et al.

(10) **Patent No.:** **US 12,492,286 B2**

(45) **Date of Patent:** **Dec. 9, 2025**

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

(71) Applicant: **NAN YA PLASTICS CORPORATION**, Taipei (TW)

(72) Inventors: **Te-Chao Liao**, Taipei (TW); **Jung-Jen Chuang**, Taipei (TW); **Chung-Yu Chen**, Taipei (TW); **Jung-Tsu Wu**, Taipei (TW)

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

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 535 days.

(21) Appl. No.: **18/072,619**

(22) Filed: **Nov. 30, 2022**

(65) **Prior Publication Data**

US 2023/0374202 A1 Nov. 23, 2023

(30) **Foreign Application Priority Data**

May 23, 2022 (TW) 111119030

(51) **Int. Cl.**

C08G 63/672 (2006.01)
C08G 63/16 (2006.01)
C08G 63/20 (2006.01)
C08G 63/50 (2006.01)
C08G 63/78 (2006.01)

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

CPC **C08G 63/16** (2013.01); **C08G 63/20** (2013.01); **C08G 63/50** (2013.01); **C08G 63/672** (2013.01); **C08G 63/78** (2013.01)

(58) **Field of Classification Search**

None
See application file for complete search history.

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Primary Examiner — David J Buttner

(74) *Attorney, Agent, or Firm* — Li & Cai Intellectual Property Office

(57) **ABSTRACT**

A plasticizer and a method for manufacturing the plasticizer are provided. The method includes the following steps. 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 is added 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 succinic acid or adipic acid. The diol includes diethylene glycol and 2-methyl-1,3-propanediol. The endcapping alcohol is an ether alcohol or a fatty alcohol having a carbon number of less than or equal to 4. 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.

17 Claims, 1 Drawing Sheet