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Wright et al.

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(54) **METHOD FOR PREPARING
MICROPARTICLES HAVING A SELECTED
POLYMER MOLECULAR WEIGHT**

(75) Inventors: **Steven G. Wright**, Madeira; **Michael E. Rickey**, Loveland; **J. Michael Ramstack**, Lebanon; **Shawn L. Lyons**; **Joyce M. Hotz**, both of Cincinnati, all of OH (US)

(73) Assignee: **Alkermes Controlled Therapeutics Inc. II**, Cambridge, MA (US)

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(51) **Int. Cl.**⁷ **A61K 9/14**; **A61K 9/50**;
B01J 13/02

(52) **U.S. Cl.** **424/489**; **424/497**; **424/484**;
264/41; **264/46**; **427/213.3**; **427/213.36**

(58) **Field of Search** **424/489**, **497**;
264/41, **46**; **427/213.3**, **213.36**

(56) **References Cited**

U.S. PATENT DOCUMENTS

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* cited by examiner

Primary Examiner—Thurman K. Page

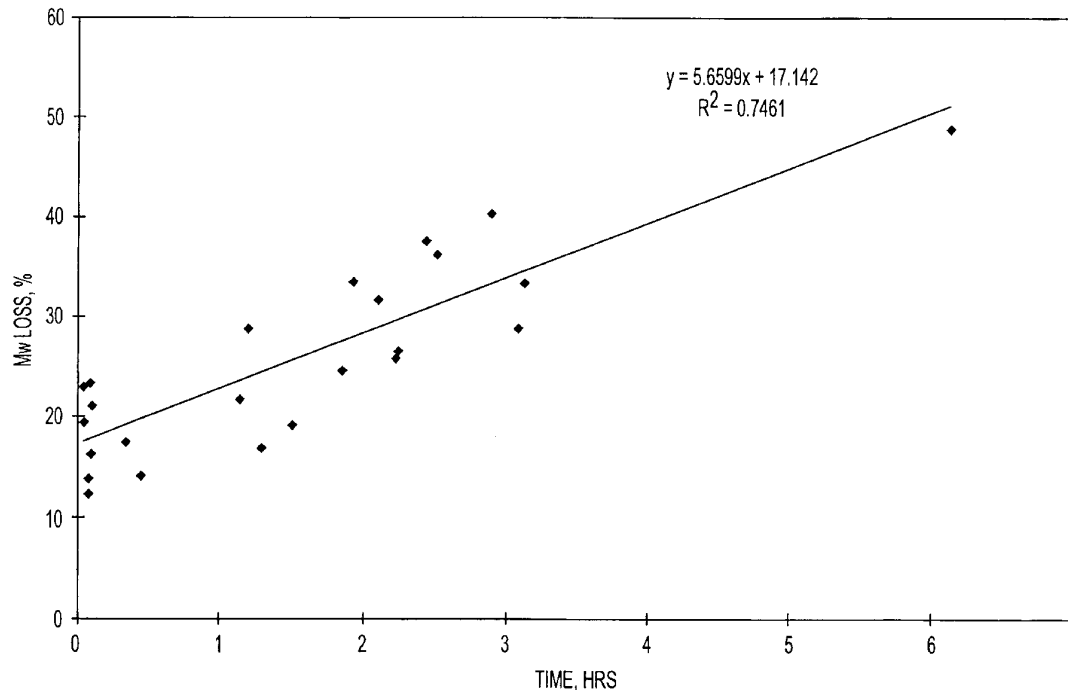
Assistant Examiner—Blessing Fubara

(74) *Attorney, Agent, or Firm*—Andrea G. Reister; Covington & Burling

(57) **ABSTRACT**

A method for preparing microparticles having a selected polymer molecular weight. The hold time and temperature of a solution containing a nucleophilic compound and a polymer having a starting molecular weight are controlled in order to control the molecular weight of the polymer in the finished microparticle product. In this manner, a selected polymer molecular weight in the finished microparticle product can be achieved from a variety of starting material molecular weights.

50 Claims, 4 Drawing Sheets



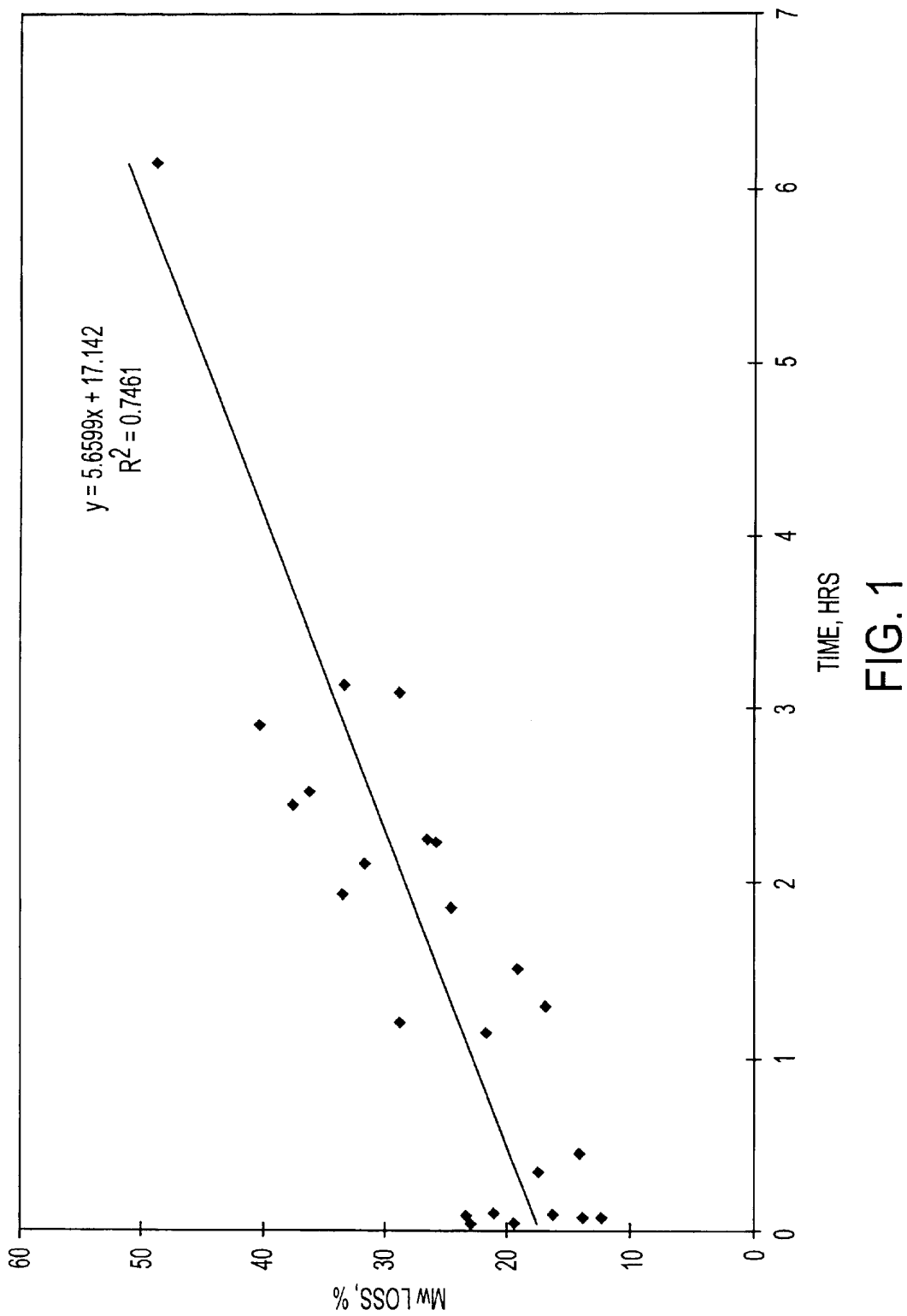


FIG. 1

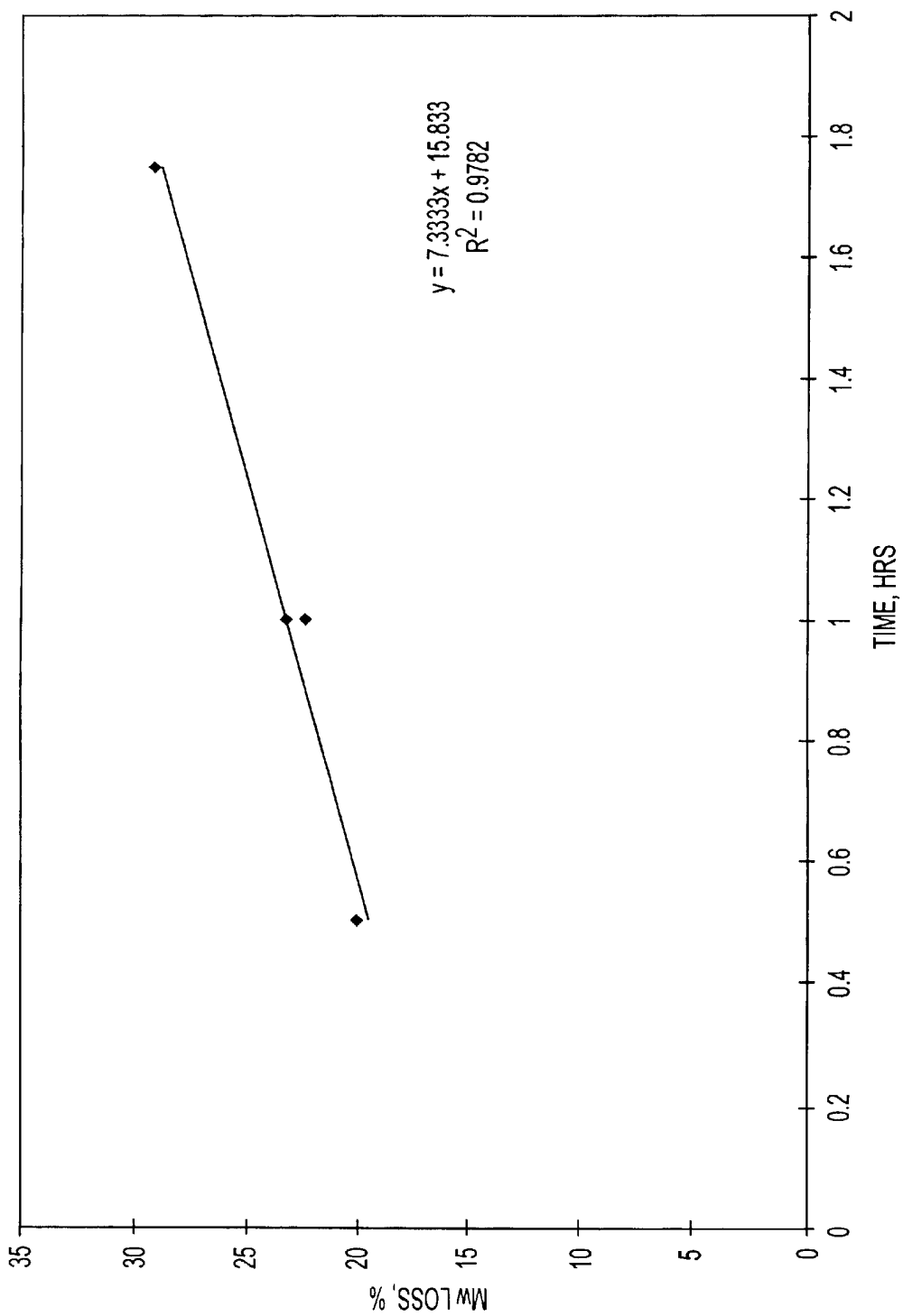


FIG. 2

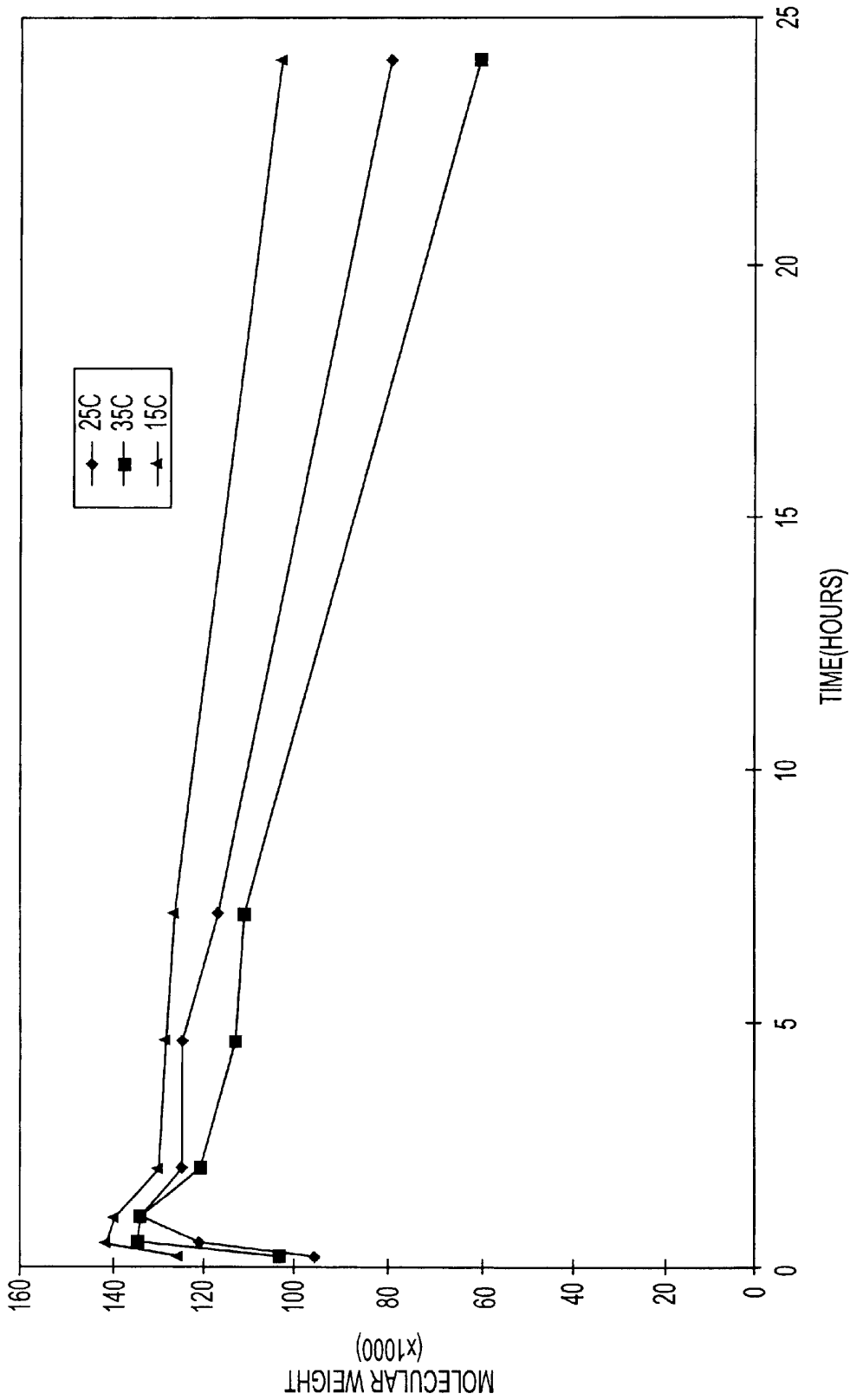


FIG. 3

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