



US005639476A

# United States Patent [19]

[11] Patent Number: **5,639,476**

Oshlack et al.

[45] Date of Patent: **\*Jun. 17, 1997**

[54] **CONTROLLED RELEASE FORMULATIONS COATED WITH AQUEOUS DISPERSIONS OF ACRYLIC POLYMERS**

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[73] Assignee: **Euro-Celtique, S.A.**, Luxembourg

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[\*] Notice: The term of this patent shall not extend beyond the expiration date of Pat. No. 5,286,493.

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[21] Appl. No.: **459,110**

[22] Filed: **Jun. 2, 1995**

### Related U.S. Application Data

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[51] Int. Cl.<sup>6</sup> ..... **A61K 9/62**

U.S. Ser. No. 07/702567 as filed in connection with European Patent Application No. 92108361.4.

[52] U.S. Cl. .... **424/468; 424/486; 424/482**

[58] Field of Search ..... **424/486, 468, 424/482**

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*Primary Examiner*—Peter F. Kulkosky  
*Attorney, Agent, or Firm*—Steinberg, Raskin & Davidson, P.C.

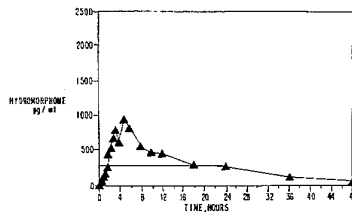
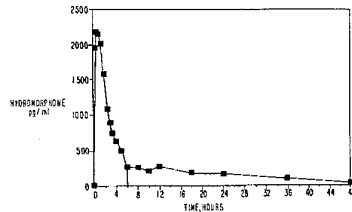
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### [57] ABSTRACT

A stable solid controlled release formulation having a coating derived from an aqueous dispersion of a hydrophobic acrylic polymer includes a substrate including an active agent selected from the group consisting of a systemically active therapeutic agent, a locally active therapeutic agent, a disinfecting and sanitizing agent, a cleansing agent, a fragrance agent and a fertilizing agent, overcoated with an aqueous dispersion of the plasticized water-insoluble acrylic polymer. The formulation provides a stable dissolution of the active agent which is unchanged after exposure to accelerated storage conditions.

**13 Claims, 8 Drawing Sheets**



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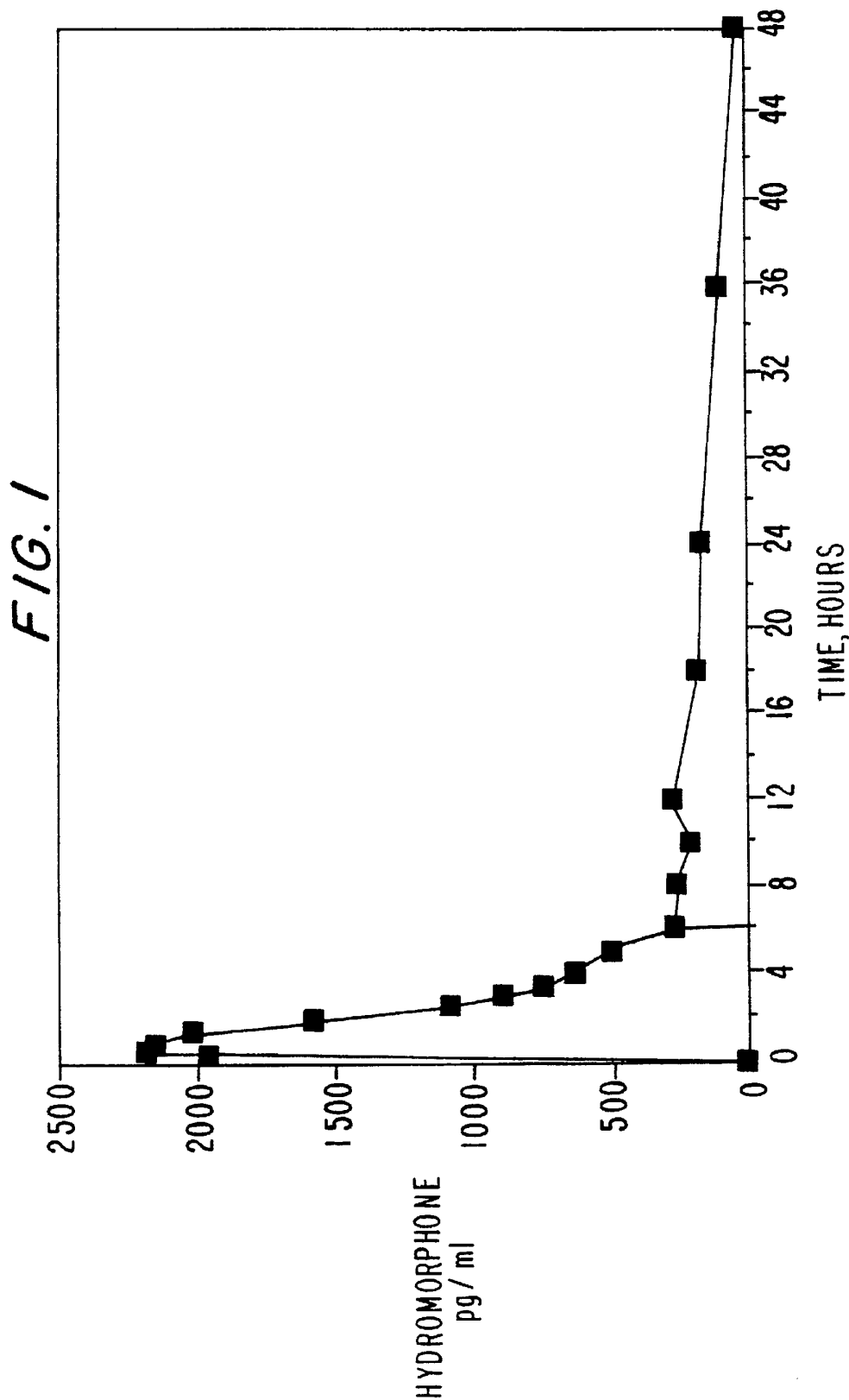


FIG. 2

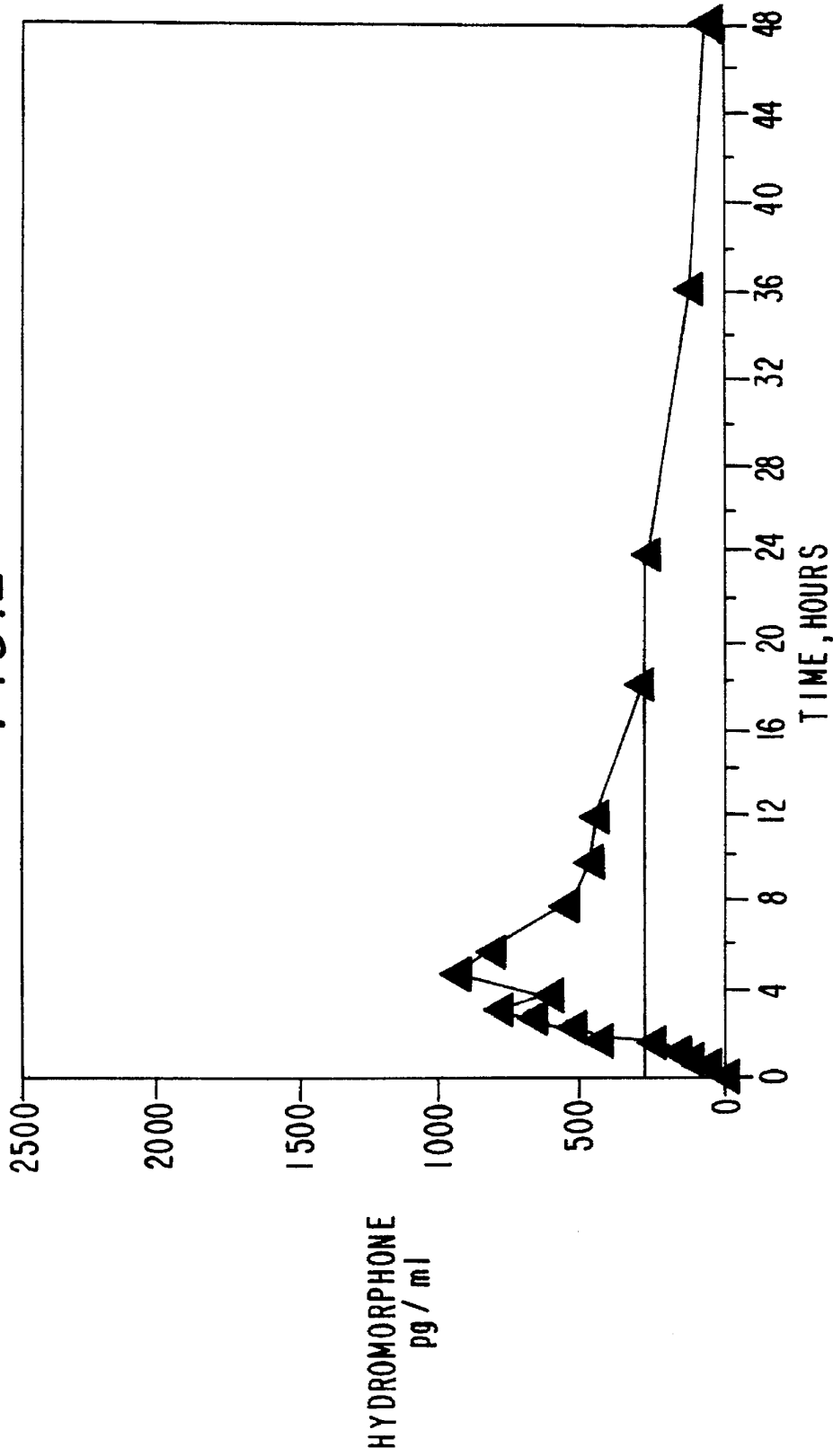
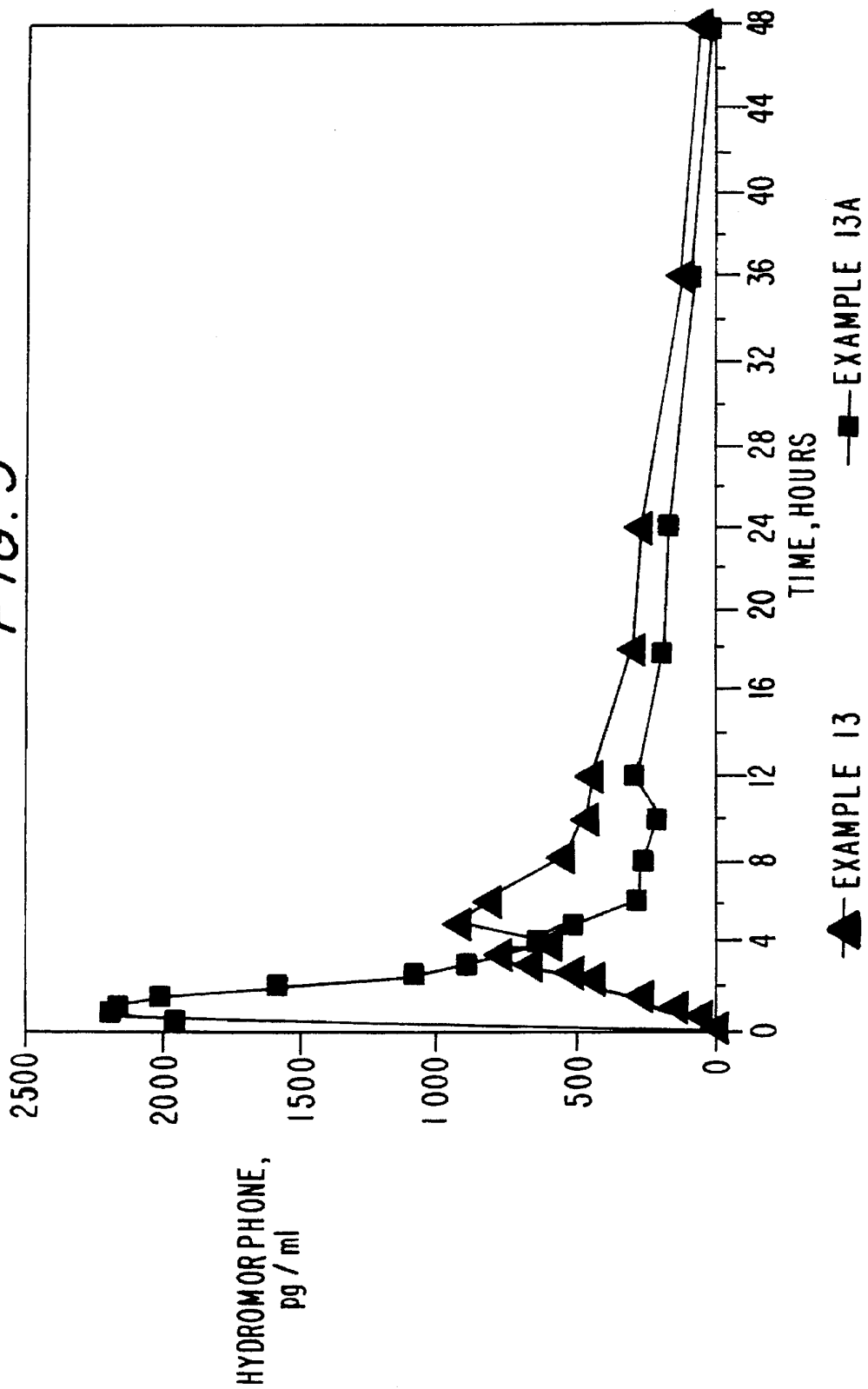


FIG. 3



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