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

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(45) **Date of Patent:** **Sep. 21, 2004**

(54) **SUCCINIC ACID SALTS OF  
5,7,14-TRIAZATETRACYCLO  
[10.3.1.0<sup>2,11</sup>.0<sup>4,9</sup>] -HEXADECA-1(11),3,5,  
7,9-PENTAENE AND PHARMACEUTICAL  
COMPOSITIONS THEREOF**

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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 0 days.

(21) Appl. No.: **10/305,845**

(22) Filed: **Nov. 27, 2002**

(65) **Prior Publication Data**

US 2003/0149044 A1 Aug. 7, 2003

**Related U.S. Application Data**

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2001.

(51) **Int. Cl.<sup>7</sup>** ..... **C07D 471/08**; A61K 31/4995

(52) **U.S. Cl.** ..... **514/250**; 544/343

(58) **Field of Search** ..... 514/250, 214.03;  
544/343; 540/578

(56) **References Cited**

**FOREIGN PATENT DOCUMENTS**

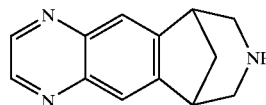
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(57) **ABSTRACT**

The present invention is directed to the succinate salts of  
5,7,13-triazatetracyclo[9.3.1.0<sup>2,10</sup>.0<sup>4,8</sup>]—pentadeca-2(10),3,  
5,8-tetraene



and pharmaceutical compositions thereof. The invention is  
also directed to a process for preparation of the succinate  
salts.

**18 Claims, 4 Drawing Sheets**

FIG. 1

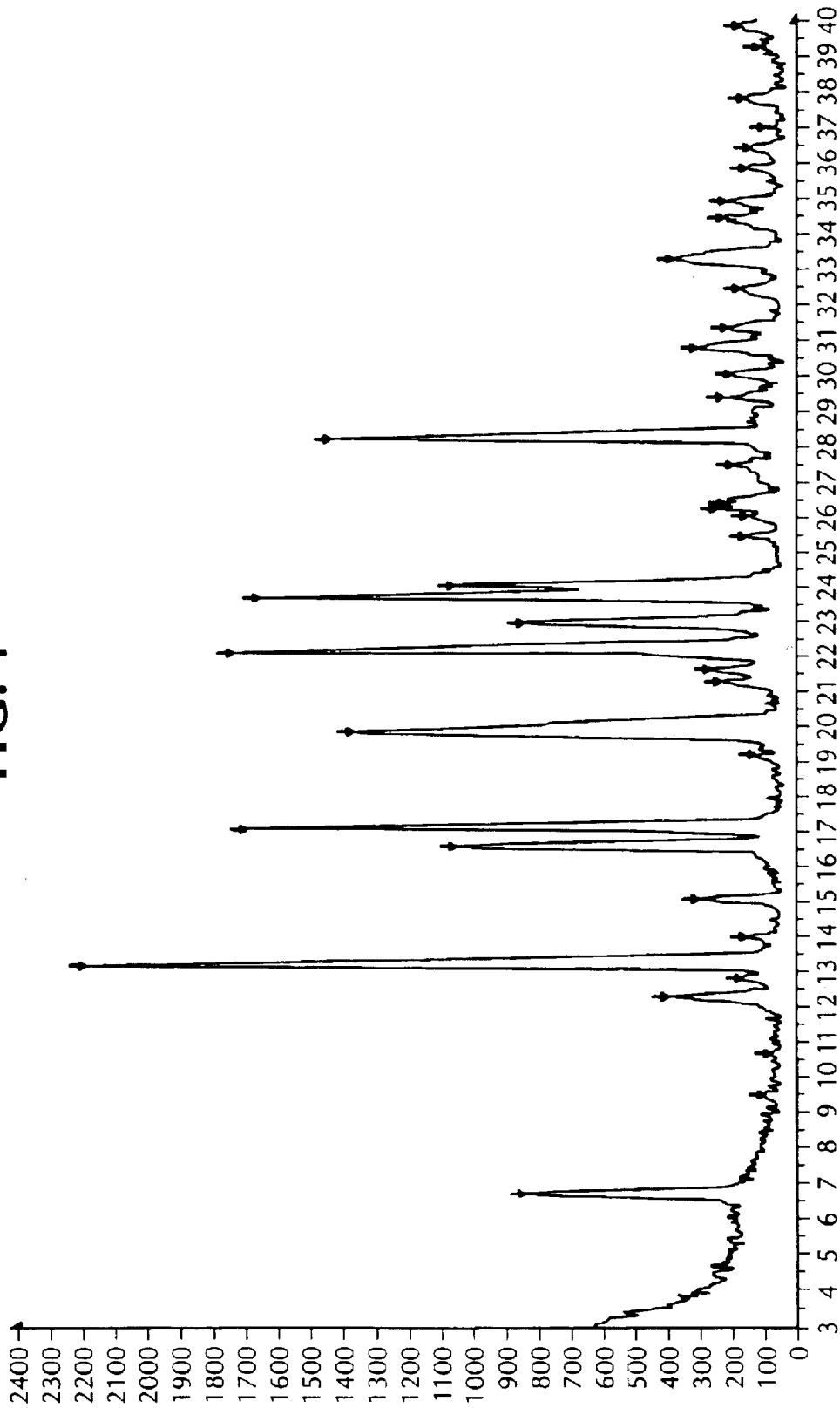


FIG. 2

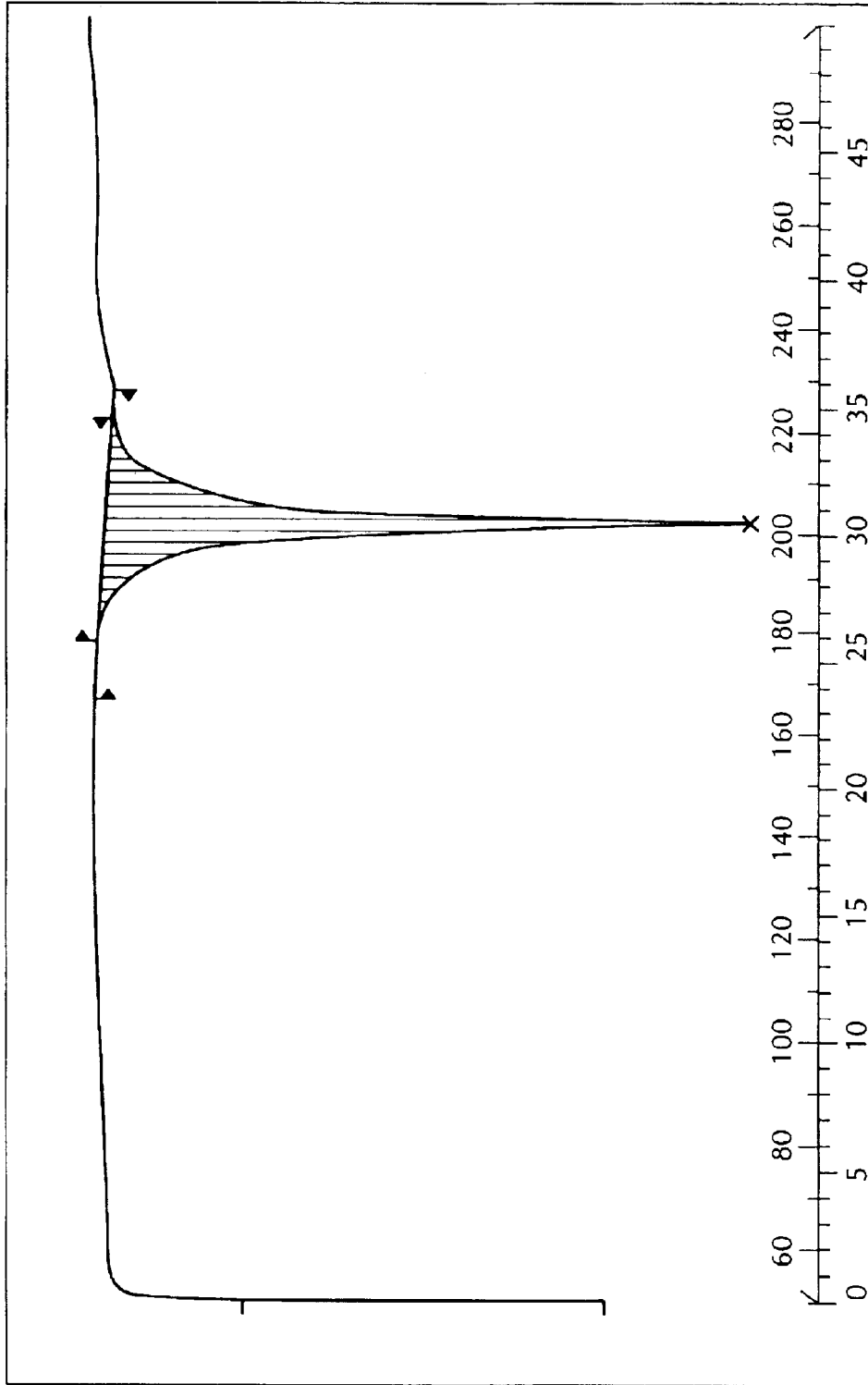


FIG. 3

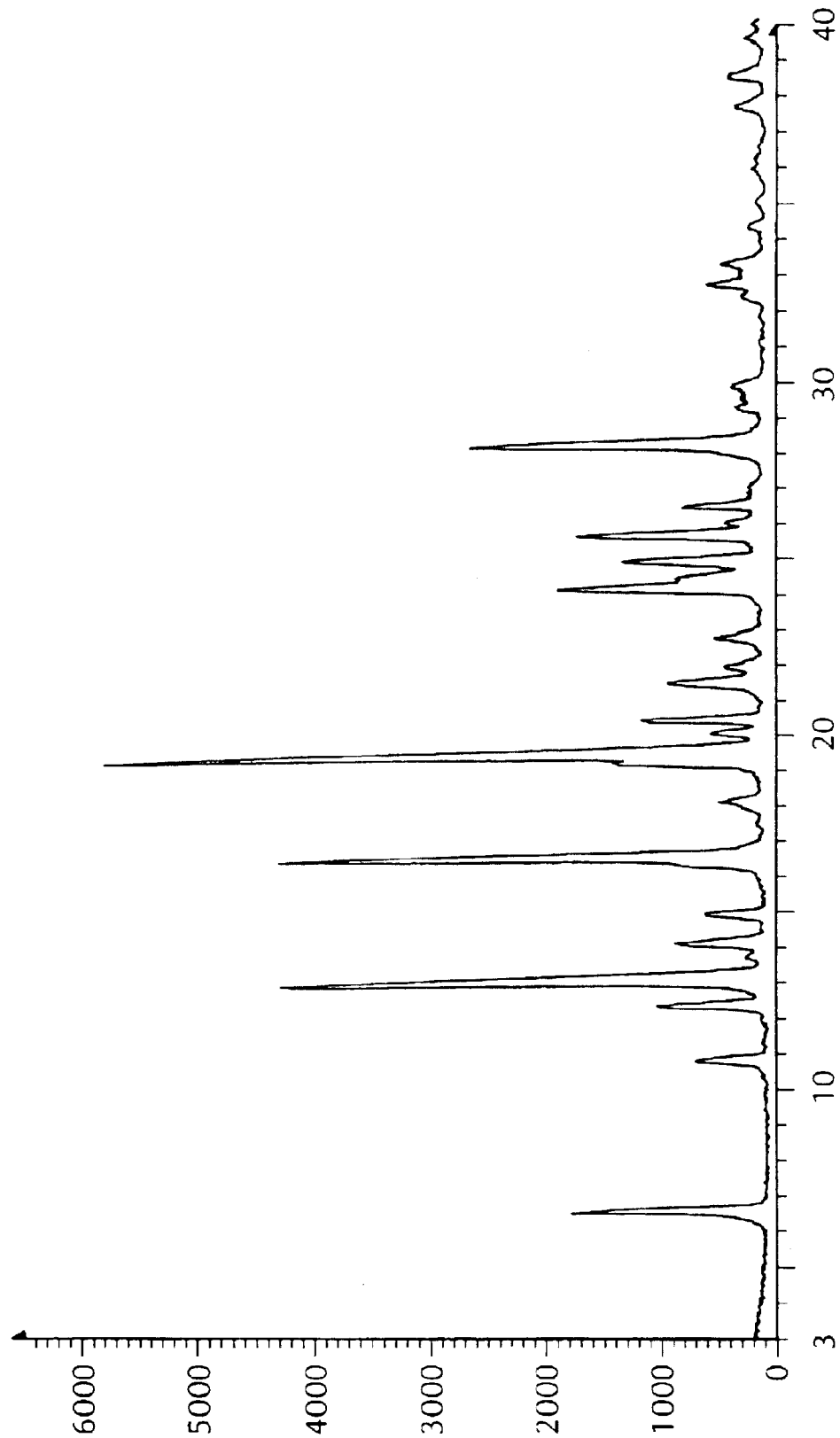
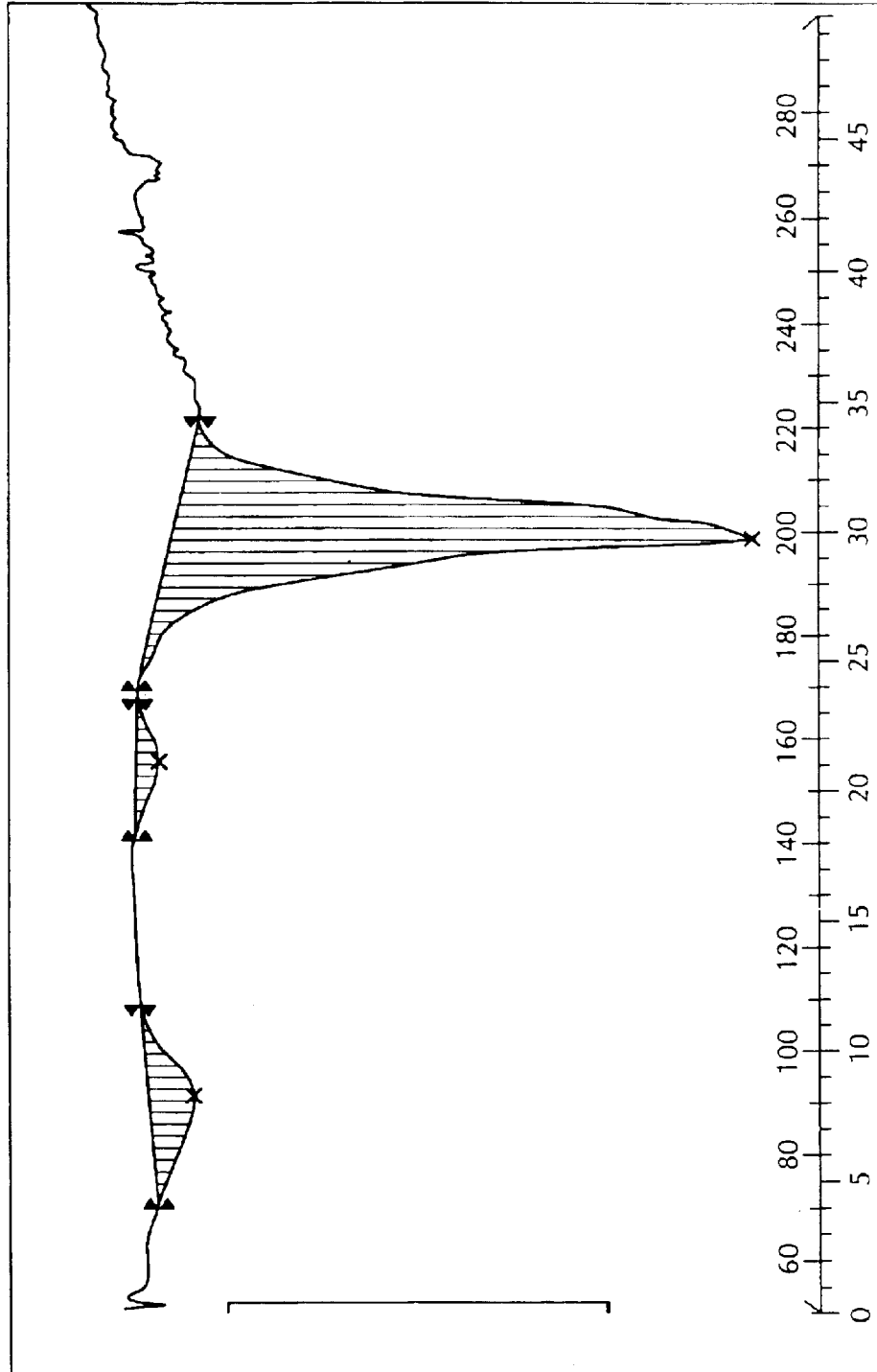


FIG. 4



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