



US006794388B2

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

(10) **Patent No.:** **US 6,794,388 B2**  
(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**

(75) Inventors: **George J. Quallich**, North Stonington,  
CT (US); **Lewin T. Wint**, Wilmette, IL  
(US)

(73) Assignee: **Pfizer Inc.**, New York, NY (US)

(\* ) 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**

(60) Provisional application No. 60/334,245, filed on Nov. 29,  
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**

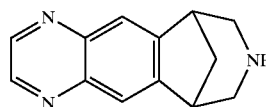
WO WO9935131 7/1999  
WO 1157726 11/2001

*Primary Examiner*—Bruck Kifle

(74) *Attorney, Agent, or Firm*—P. C. Richardson; P. H.  
Ginsburg; A. D. Joran

(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

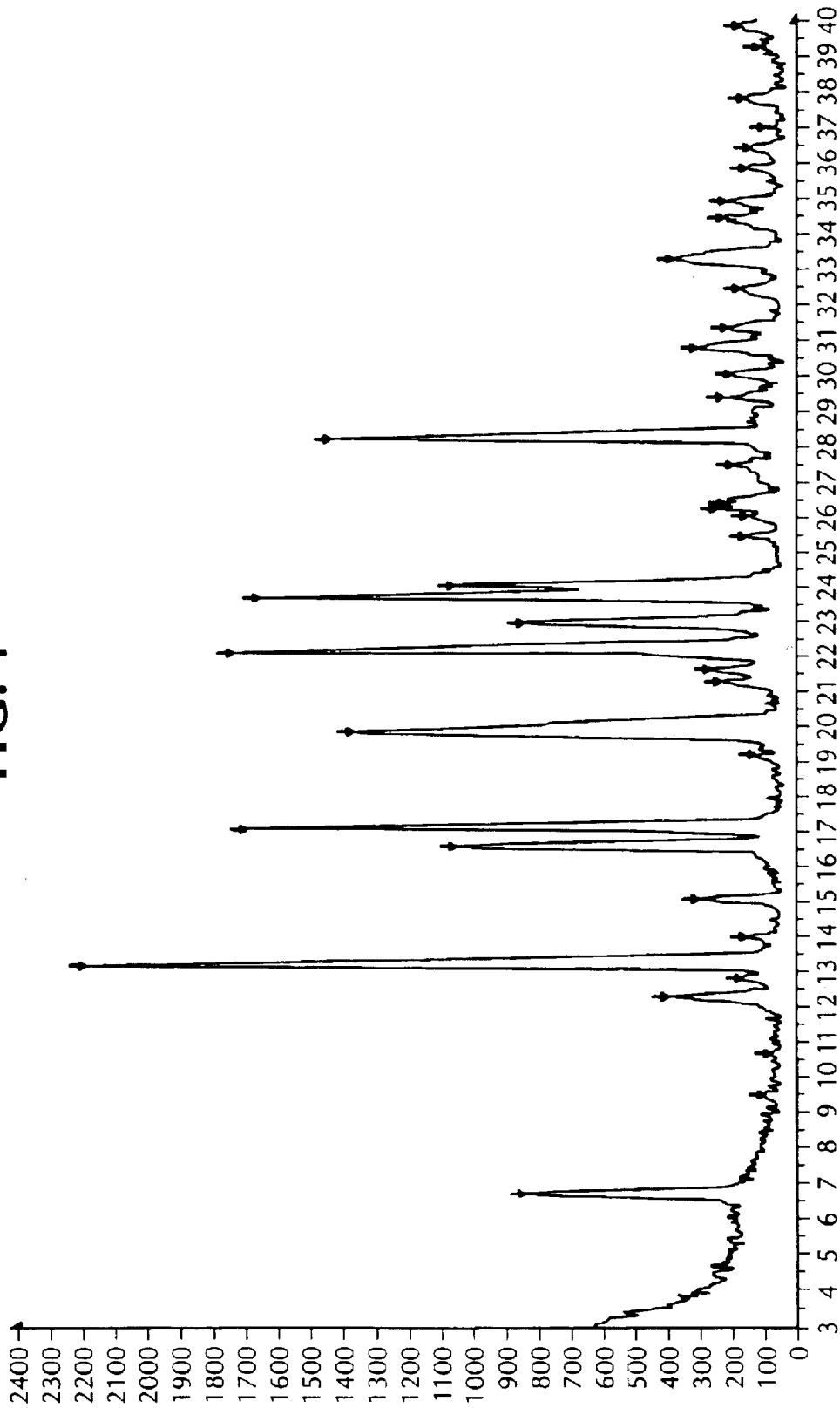


FIG. 2

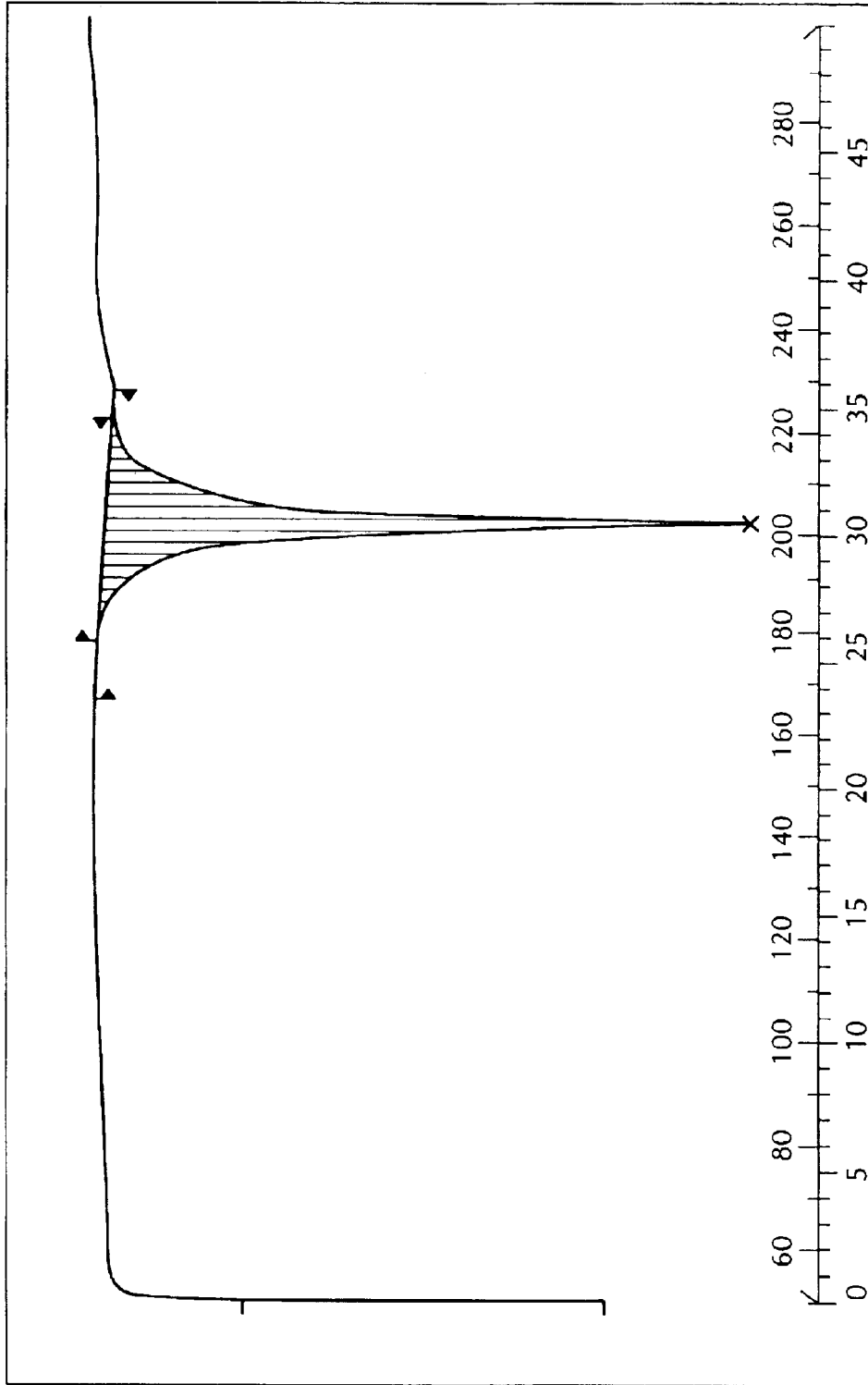


FIG. 3

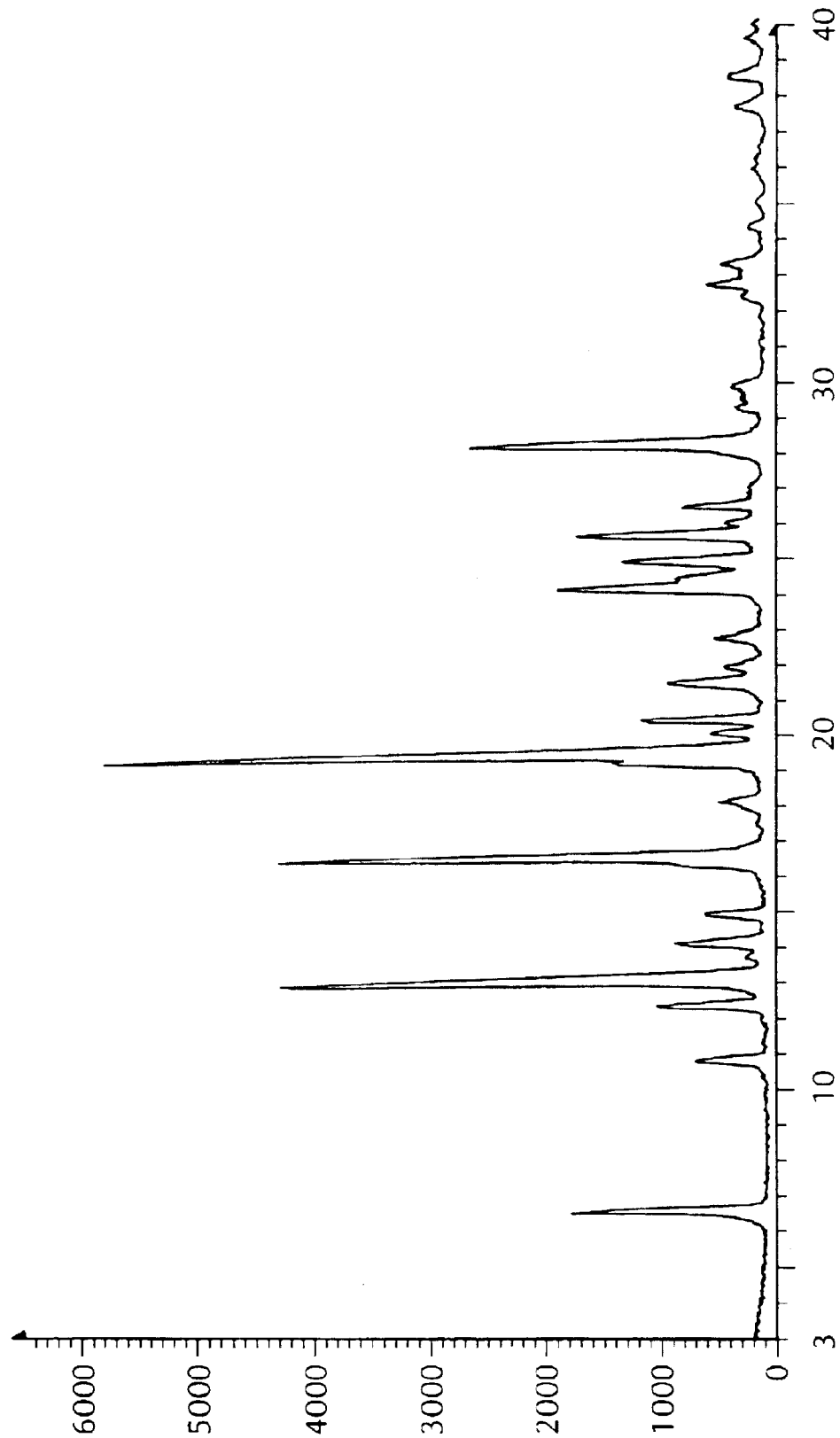
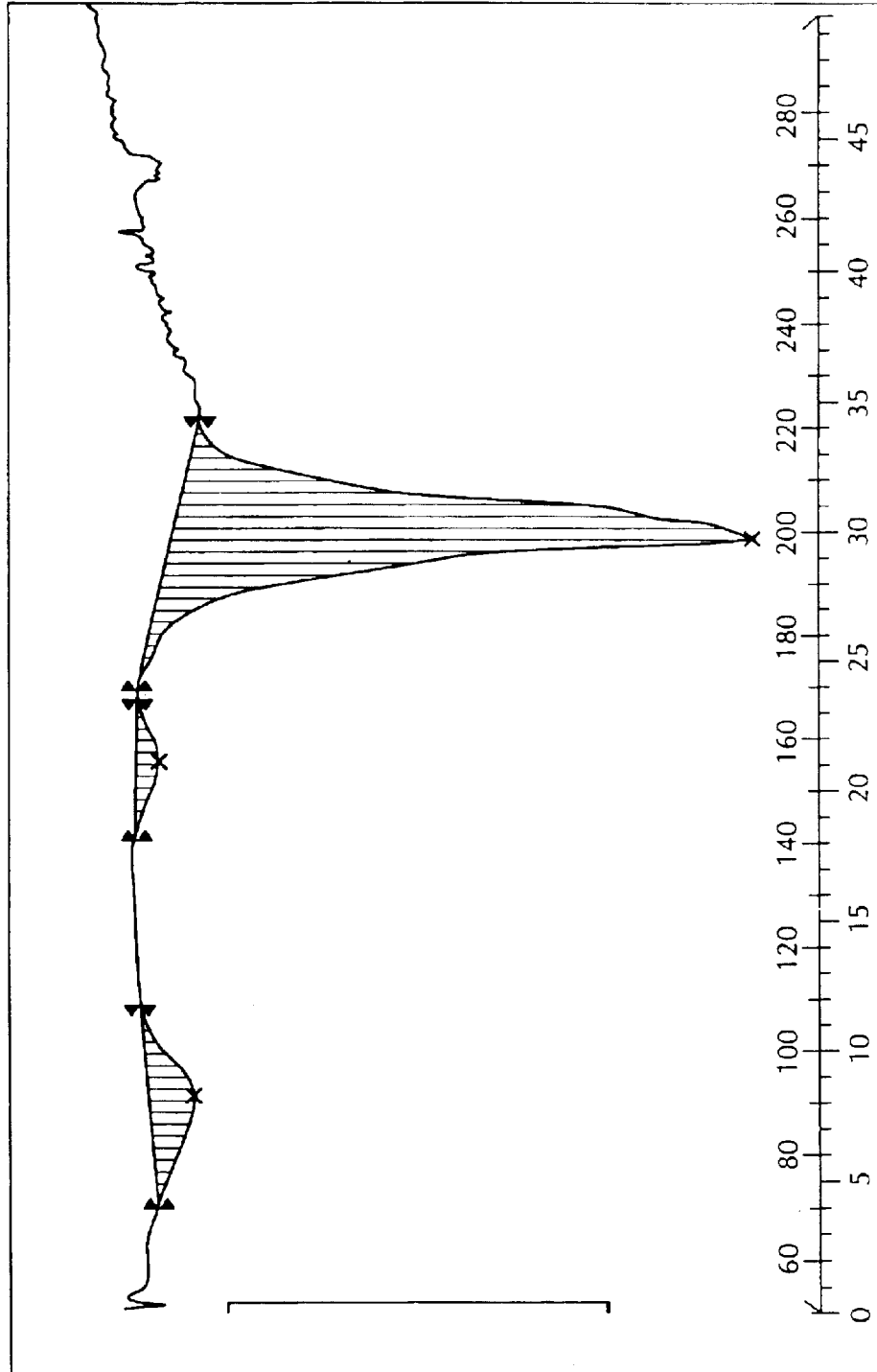


FIG. 4



# Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

## Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

## Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

## Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

## API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

## LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

## FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

## E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.