

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

(10) **Patent No.:** **US 7,214,506 B2**  
(45) **Date of Patent:** **May 8, 2007**

(54) **METHOD FOR TREATING  
ONYCHOMYCOSIS**

(75) Inventors: **Yoshiyuki Tatsumi**, Otsu (JP);  
**Mamoru Yokoo**, Otsu (JP); **Kosho  
Nakamura**, Moriyama (JP); **Tadashi  
Arika**, Suita (JP)

(73) Assignee: **Kaken Pharmaceutical Co., Ltd.**,  
Bunkyo-ku, Tokyo (JP)

(\* ) Notice: Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 451 days.

(21) Appl. No.: **10/685,266**

(22) Filed: **Oct. 14, 2003**

(65) **Prior Publication Data**

US 2007/0082375 A1 Apr. 12, 2007

**Related U.S. Application Data**

(62) Division of application No. 10/031,929, filed as appli-  
cation No. PCT/JP00/04617 on Jul. 11, 2000, now  
abandoned.

(30) **Foreign Application Priority Data**

Jul. 28, 1999 (JP) ..... 11/214369

(51) **Int. Cl.**

**C12Q 1/18** (2006.01)

**A01N 43/26** (2006.01)

**A01N 43/34** (2006.01)

**A61K 31/445** (2006.01)

(52) **U.S. Cl.** ..... **435/32**; 514/326

(58) **Field of Classification Search** ..... 435/32;  
514/326

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,620,994 A \* 4/1997 Naito et al. .... 514/326  
5,716,969 A \* 2/1998 Naito et al. .... 514/326  
5,962,476 A 10/1999 Naito et al.

FOREIGN PATENT DOCUMENTS

EP 0 402 989 A2 12/1990  
JP 8-103291 4/1996  
JP 10-28597 2/1998  
WO WO 94/26734 11/1994  
WO WO 99/39680 A1 8/1999

OTHER PUBLICATIONS

Kitazaki Tomoyuki et al., Chem. Pharm. Bull, vol. 44 (No. 2), p.  
314-327, (Feb. 1996).

Ogura, Hironobu et al., Chem. Pharm. Bull, vol. 47 (No. 10), p.  
1417-1425, (Oct. 1999).

\* cited by examiner

*Primary Examiner*—Jon Weber

*Assistant Examiner*—Kailash C. Srivastava

(74) *Attorney, Agent, or Firm*—Nixon Peabody LLP

(57) **ABSTRACT**

A novel method for evaluating an effect of an antimicrobial  
agent which comprises removing the antimicrobial agent  
remaining in a biological sample or the like to thereby  
accurately evaluate the effect of the antimicrobial agent  
without being affected by the remaining antimicrobial agent.  
A therapeutic agent for onychomycosis which can be  
obtained according to the evaluation method of the drug  
effect.

**2 Claims, 4 Drawing Sheets**

FIG. 1(a)

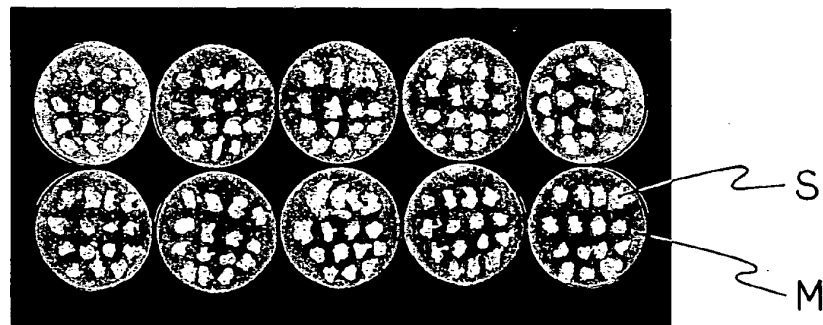


FIG. 1(b)

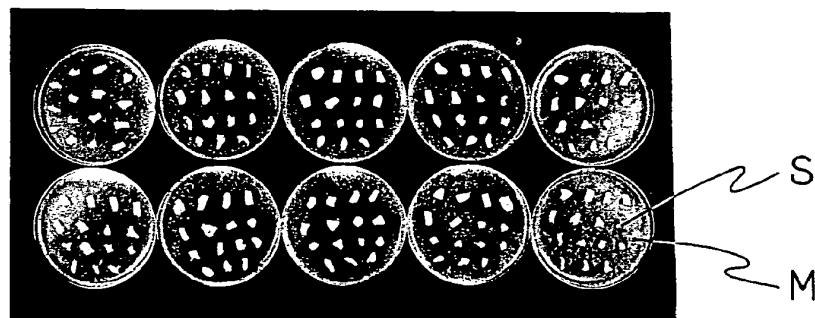


FIG. 1(c)

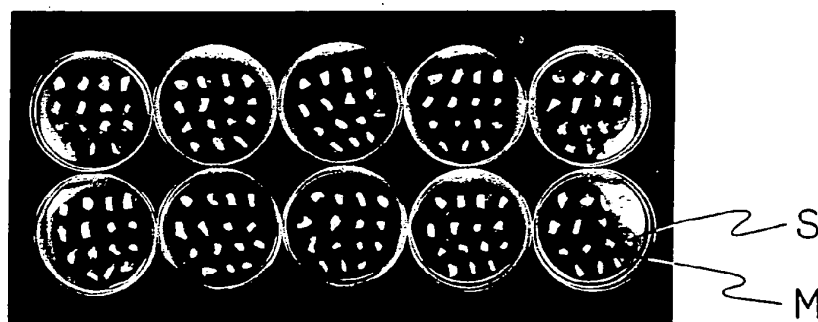


FIG. 2(a)

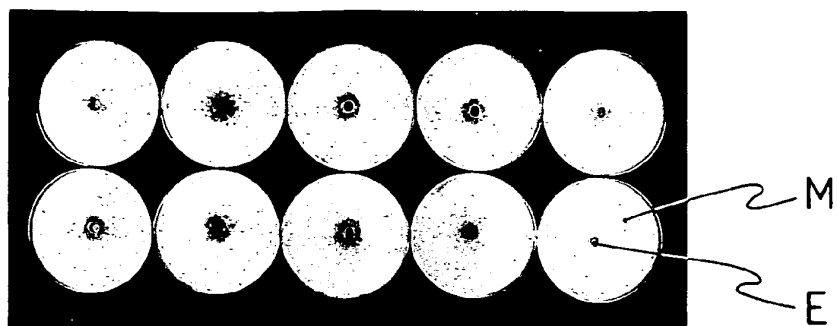


FIG. 2(b)

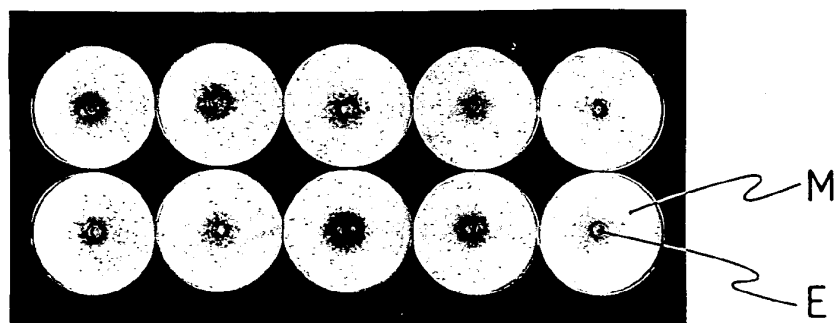


FIG. 2(c)

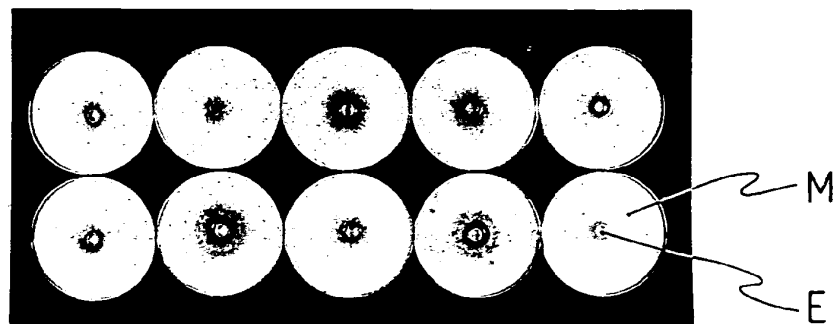


FIG. 3

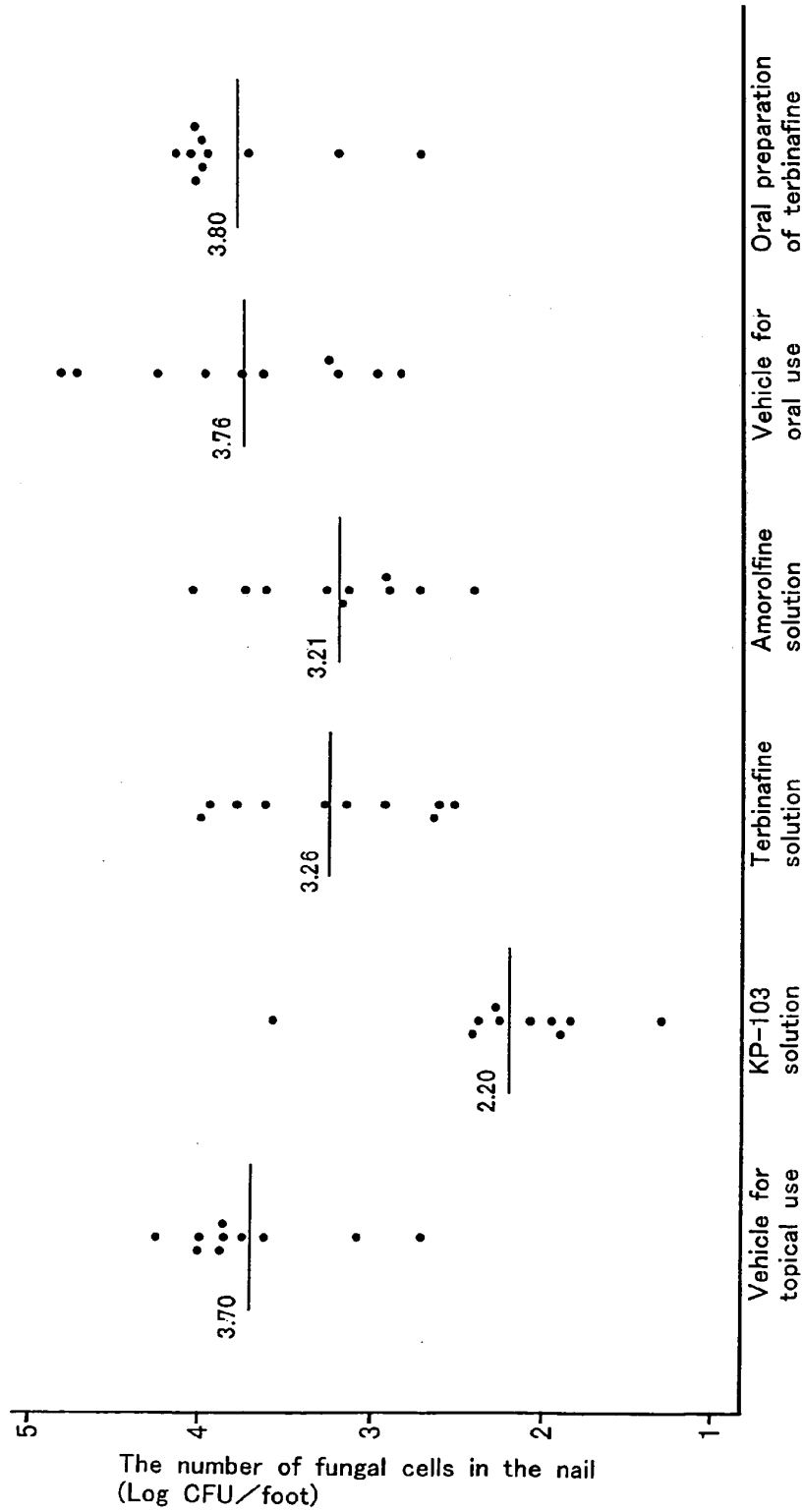
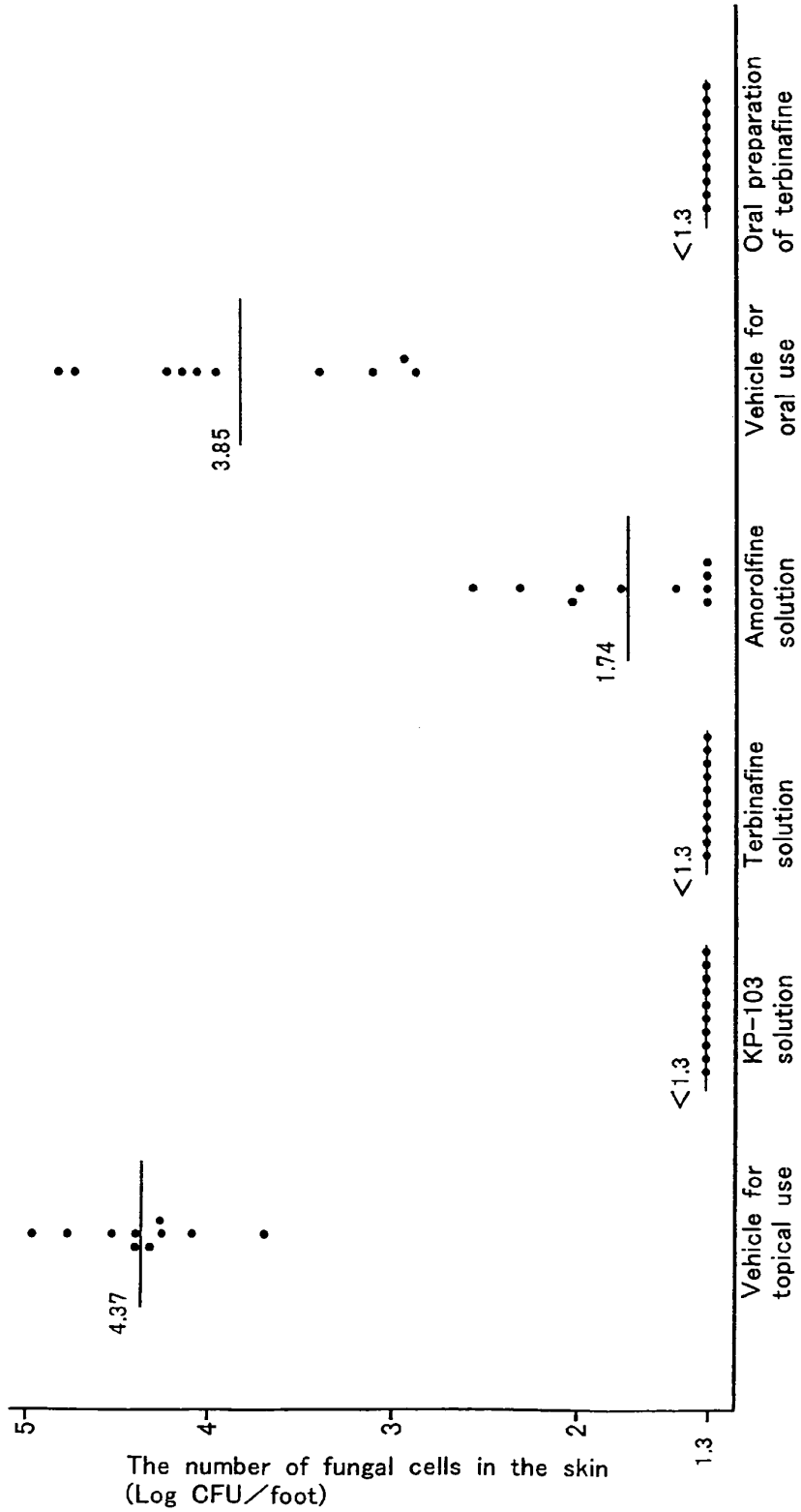


FIG. 4



# 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.