

(19) United States

## (12) Patent Application Publication (10) Pub. No.: US 2001/0003676 A1 Marks et al.

Jun. 14, 2001 (43) Pub. Date:

(54) COBALT SILICIDE ETCH PROCESS AND **APPARATUS** 

(75) Inventors: Steven Marks, Petaluma, CA (US); Leslie G. Jerde, Novato, CA (US); Stephen P. DeOrnellas, Santa Rosa, CA (US)

San Francisco, CA 94111-4156 (US)

Correspondence Address: Sheldon R. Meyer FLIESLER, DUBB, MEYER & LOVEJOY LLP Suite 400 Four Embarcadero Center

(73) Assignee: Tegal Corporation

(21) Appl. No.: 09/760,402

(22) Filed: Jan. 12, 2001

### Related U.S. Application Data

Division of application No. 09/454,814, filed on Dec. 3, 1999.

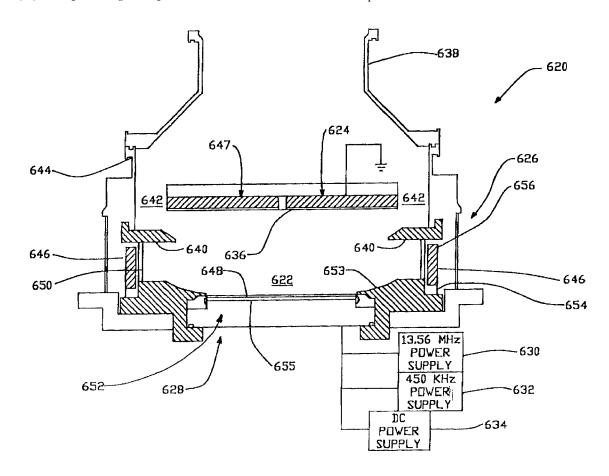
#### **Publication Classification**

(51) Int. Cl.<sup>7</sup> ...... H01L 21/302

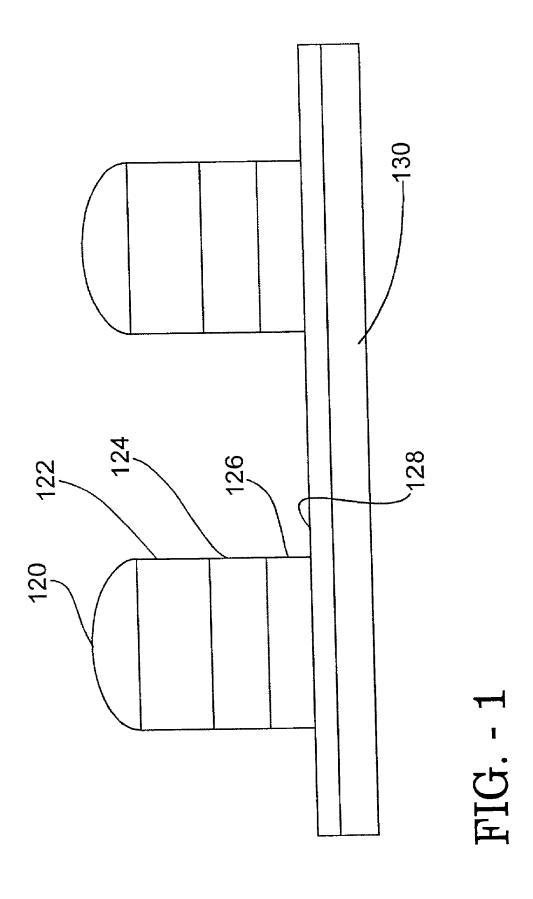
(52) U.S. Cl. ...... 438/710; 438/712

**ABSTRACT** (57)

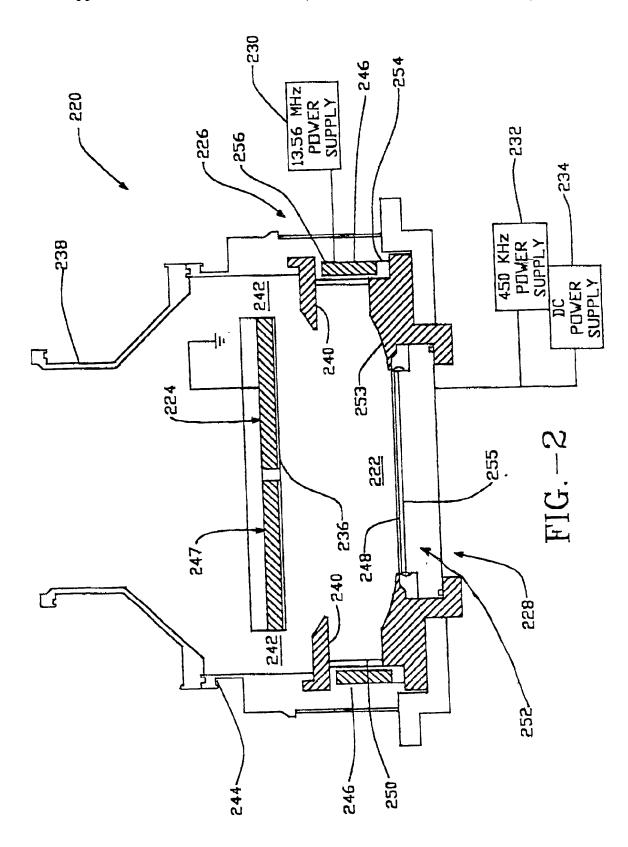
Method and apparatus for etching a silicide stack including etching the silicide layer at a temperature elevated from that used to etch the rest of the layers in order to accomplish anisotropic etch.

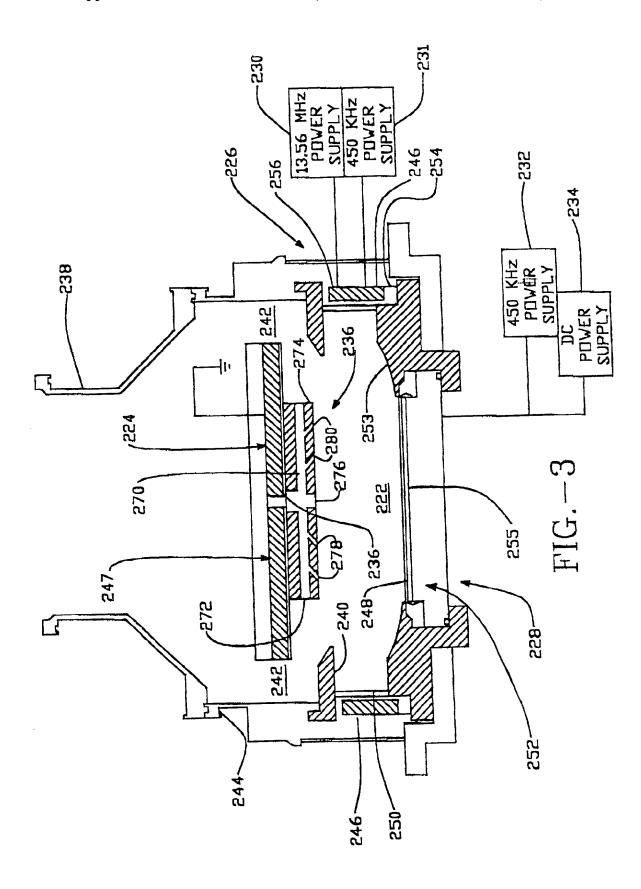




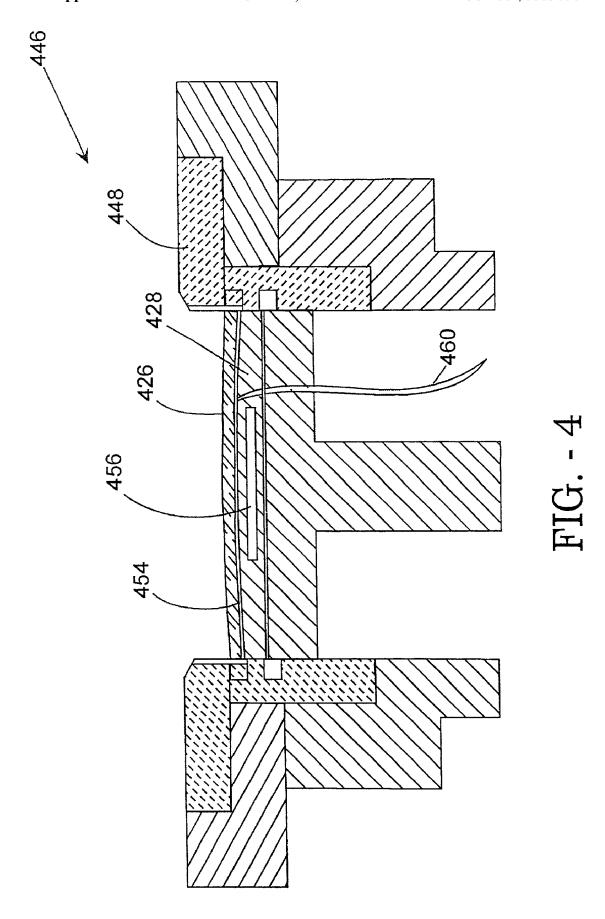












# DOCKET A L A R M

# 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.

