

US 20020097956A1

## (19) United States

## (12) Patent Application Publication (10) Pub. No.: US 2002/0097956 A1 Kikuchi et al. (43) Pub. Date: Jul. 25, 2002

#### (54) FIBER COLLIMATOR ARRAY

(76) Inventors: **Juro Kikuchi**, Kakegawa-City (JP); **Yasuyuki Mizushima**, Kakegawa-City (JP); **Hiroki Takahashi**, Fukuroi City (JP); **Yoshiaki Takeuchi**, Shizuoka-shi (JP)

Correspondence Address: CORNING INCORPORATED SP-TI-3-1 CORNING, NY 14831

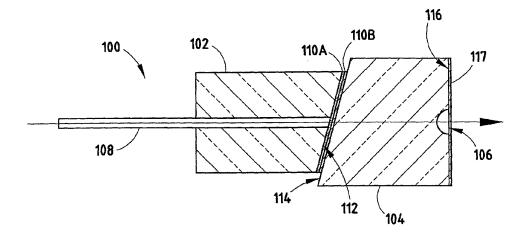
(21) Appl. No.: 09/767,255

(22) Filed: Jan. 22, 2001

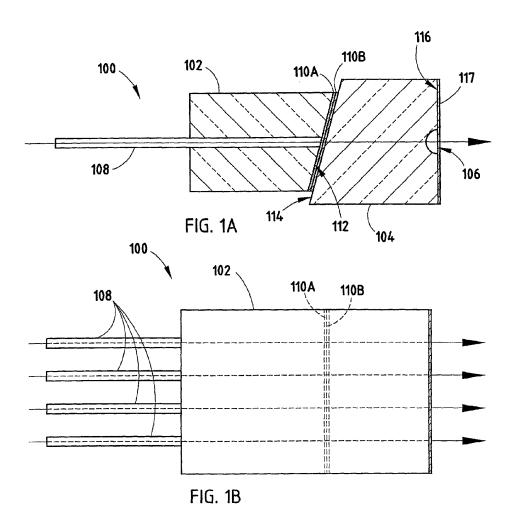
#### **Publication Classification**

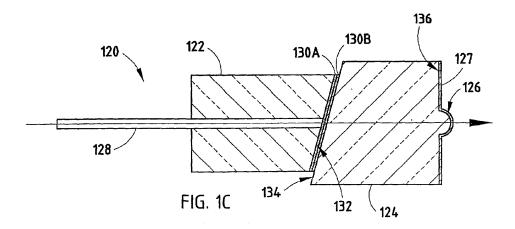
#### (57) ABSTRACT

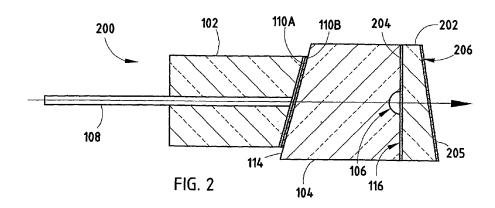
An optical fiber collimator array includes an optical fiber array block and a microlens array substrate. The optical fiber array block includes an angled surface and is configured to receive and retain a plurality of individual optical fibers, which carry optical signals. The microlens array substrate includes a plurality of microlenses integrated along a microlens surface and a sloped surface opposite the microlens surface. The microlens surface is coupled to the angled surface such that the optical signals from the individual optical fibers are each collimated by a different one of the integrated microlenses.

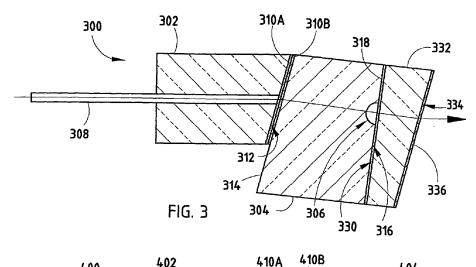


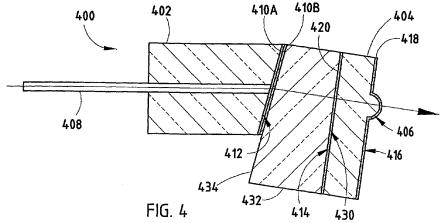


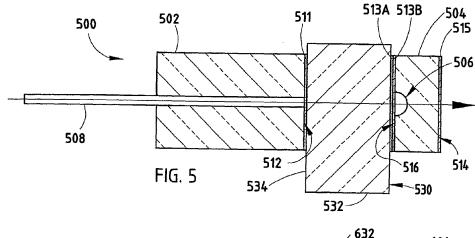


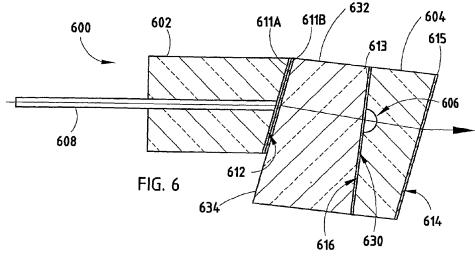


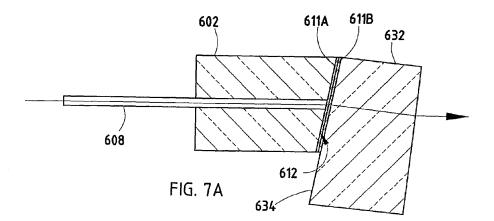


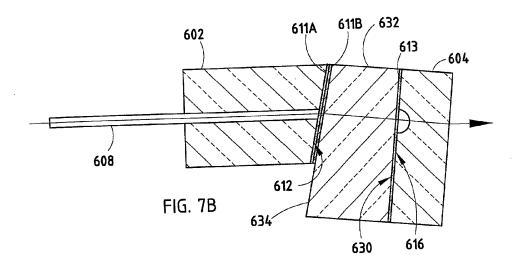


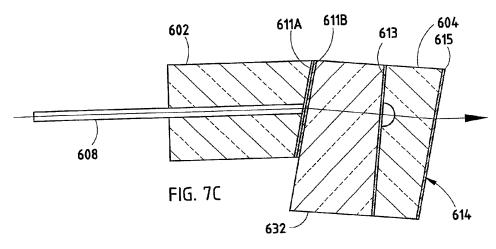


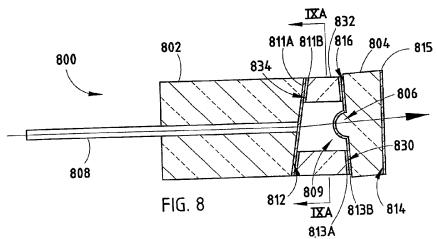












# DOCKET

## 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.

