

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

VANGUARD PRODUCTS GROUP, INC., D/B/A VANGUARD PROTEX
GLOBAL

Petitioner

v.

INVUE SECURITY PRODUCTS, INC.

Patent Owner

Case No.: IPR2020-00069
U.S. Patent No. 10,043,358

MARTIN H. WEIK, FIBER OPTICS STANDARD DICTIONARY (1989)

EXHIBIT 2005

Fiber Optics Standard Dictionary

Second Edition

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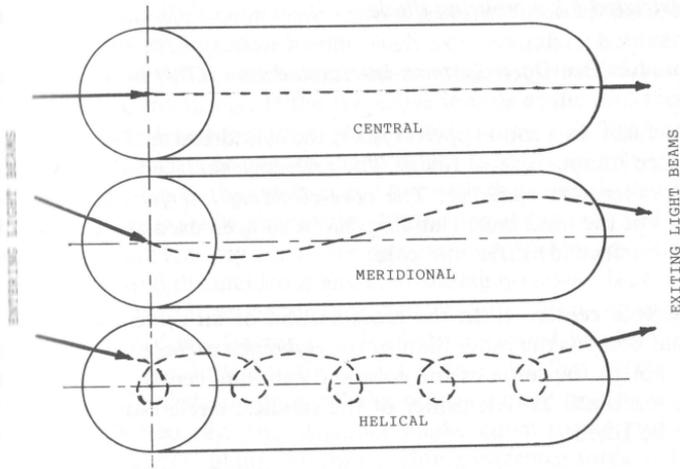
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R-2. Some of the possible ray trajectories for graded-index optical fibers.

Receiver. See *fiber optic receiver; optical receiver; optoelectronic receiver; PIN-FET integrated receiver.*

Receiver-information descriptor. A unique descriptor from which information about a receiver can be determined, such as the manufacturer, terminal equipment installation, system design application (*single-mode, multimode*), performance specifications, *detector type (APD, PIN photodiode)*, temperature controller, and manufacturer product change designation (issue, revision).

Receiver input. See *maximum receiver input.*

Receiver maximum input power. See *optical maximum input power.*

Receiver optical connector. The *optical connector* provided at the input of an *optical receiver* that is attached to the receiver *pigtail*. The receiver optical connector description should include the manufacturer, type (biconic, FC, etc.) model number, classification (*multimode, single-mode*), and mating connector model number.

Receiver optical sensitivity. The worst-case value of *input optical power (dBm)* coupled into a receiver, as measured on the line side of the receiver connector under specified *standard or extended operating conditions*, that is necessary to achieve the manufacturer-specified *bit-error ratio (BER)* as measured under standard procedures. The worst-case value combines manufacturing, temperature, aging, *extinction ratio*, and rise-fall time variations in a worst-case fashion. The receiver sensitivity should not include power penalties associated with *dispersion or reflection*.

Recording. See *fiberscopic recording.*