

MICRO-ELECTRO-MECHANICAL SYSTEMS (MEMS)

Xerox Corporation & Palo Alto Research Center Incorporated

Initial Bidding Guidance: Low 6 Figures

With priority dates from 2001, the disclosed portfolio provides methods and systems in optical MEMS switch technology that include:

1. A MEMS-based adjustable mirror module for high-precision alignment between optical fibers and Micro-Opto-Electro-Mechanical Systems (MOEMS) chips. This module offers a solution to the beam divergence problem by adjusting the path of light of a beam emerging from an optical fiber by use of a gold-coated MEMS mirror. [6,580,858]
2. Method and system for a monolithically integrated, reconfigurable optical multiplexer that improves performance and manufacturability. [6,658,179 & 6,990,265]
3. The disclosed techniques also apply to a waveguide shuttle platform. [7,298,954]

Forward Citing Companies: Agiltron, Alcatel-Lucent, Freescale Semiconductor, Hewlett-Packard, Honeywell International, Huawei, Intellectual Ventures, Lockheed Martin, Sumitomo Electric

Priority Date: 04-30-2001

Representative Claim: US 6,658,179 – Claim #13

A method for manufacturing a monolithic reconfigurable optical multiplexer, comprising fabricating at least one silicon demultiplexer, a plurality of silicon optical switches and at least one silicon multiplexer in a single silicon layer, wherein the single silicon layer comprises a single crystal silicon device layer of a silicon on insulator wafer.

Contact:

For more information on the assets available for sale in this portfolio, contact Paul Greco.

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TECHNOLOGY

SEMICONDUCTORS;
MEMS

NOVELTY

HIGH-QUALITY MICRO-ELECTRO-MECHANICAL SYSTEMS (MEMS) DEVICES IN OPTICAL NETWORKS

IMPORTANCE

A VALUABLE PORTFOLIO FOR COMPANIES PROVIDING NETWORK HARDWARE, OPTICAL NETWORK INFRASTRUCTURE, AND COMMUNICATION SOLUTIONS

NUMBER OF ASSETS

14

PATENTS (13)

US 6,580,858
US 6,658,179
US 6,990,265
US 7,298,954
CA 2411012
DE 60221947.7
DE 60245647.9
EP 1255149
FR 1255149
FR 1310808
GB 1255149
GB 1310808
MX 234141

APPLICATIONS (1)

BR P10204570-2