LUMENTUM HOLDINGS, INC., LUMENTUM, INC., LUMENTUM OPERATIONS, LLC,
CORIANT OPERATIONS, INC., CORIANT (USA) INC., CIENA CORPORATION,
CISCO SYSTEMS, INC., AND FUJITSU NETWORK COMMUNICATIONS, INC.
Petitioners
v.
CAPELLA PHOTONICS, INC.
Patent Owner

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IPR2015-00731[1] Patent RE42,368
IPR2015-00739[2] Patent RE42,678

[1] IPR2015-01969 has been joined with this proceeding
[2] IPR2015-01971 has been joined with this proceeding

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Petitioners' Oral Hearing Demonstratives

The word-for-word identical paper is being filed in each proceeding identified in the heading
* All references herein to IPR papers and associated exhibits are to those in IPR2015-00739 unless otherwise noted

Table of Contents

I. Introduction

► **Challenged claims ("xx" = independent claims)**

- ➤ IPR2015-00731 / RE 42,368: 1-6, 9-13, 15, 16, 17-22
- ➤ IPR2015-00739 / RE 42,678: 1-4, 9, 10, 13, 17, 19, 20, 21-23, 27, 29, 44-46, 53, 61-65

► **Prior art: Bouevitch, Sparks, Lin, Dueck**

► **Related Proceedings: IPR2014-01166 (RE 42,368) / IPR2014-01276 (RE 42,678)**

- ➤ Identical challenged claims
- ➤ Prior art: Bouevitch, *Smith*, Lin, Dueck
- ➤ Final Written Decisions finding all claims unpatentable

I. Introduction

Representative claims for discussion:
RE 42,678 Claims 1, 3, 17

➢Include key limitations

➢Encompass all key issues

I. Introduction

► **Claim 1:**

A wavelength-separating-routing apparatus, comprising:

"multiple fiber collimators, providing an input port … and a plurality of output ports" *i.e.,*

➤ **collimators providing ports**

"a spatial array of channel micromirrors … being pivotal about two axes and … continuously controllable to reflect … received spectral channels into any selected ones of said output ports … to control the power of said received spectral channels" *i.e.,*

➤ **2-axis mirrors** that are
  • **continuously controllable**
  • **for switching**
  • **to control power**

Ex. 1001, p. 21

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