

AVIGILON

a Motorola Solutions Company

**Canon Inc., Canon U.S.A., Inc., and
Communications AB**

v.

Avigilon Fortress Corporation

IPR2019-00311 & IPR2019-00314: **U.S. Patent**

Avigilon's Oral Argument

April 8, 2020

Roadmap

Background

Collateral Estoppel Does Not Apply

Claim Construction

Ground 1: Kellogg Does Not Anticipate Claims

Ground 2: Kellogg In View Of Brill Does Not P
Claims 1-41 Obvious

Ground 3: Dimitrova In View of Brill Does No
Claims 1-41 Obvious

Printed Publication Status

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Printed Publication Status

The '923 Patent

U.S. Patent No. 7,932,923

US007932923B2

(12) **United States Patent**
Lipton et al.

(10) **Patent No.:** US 7,932,923 B2
(45) **Date of Patent:** Apr. 26, 2011

(54) **VIDEO SURVEILLANCE SYSTEM EMPLOYING VIDEO PRIMITIVES**

(75) **Inventors:** Alan J. Lipton, Falls Church, VA (US); Thomas M. Strick, Palcos, VA (US); Peter L. Verelander, Mel oon, VA (US); Mark C. Allison, Maricopa, CO (US); William E. Severson, Littleton, CO (US); Niels Haring, Arlington, VA (US); Andrew J. Chouk, McLean, VA (US); Zhong Zhang, Herndon, VA (US); Matthew F. Frazier, Arlington, VA (US); James S. Suckow, Arlington, VA (US); Takashi Hirata, Silver Spring, MD (US); John Clark, Leesburg, VA (US)

(73) **Assignee:** ObjectVideo, Inc., Reston, VA (US)

(*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) **Appl. No.:** 12/569,116

(22) **Filed:** Sep. 29, 2009

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(51) **Int. Cl.** H04N 7/18 (2006-01)

(52) **U.S. Cl.** 348/043

(58) **Field of Classification Search** 375/143, 375/144, 145, 148; H04N 7/18
See application file for complete search history.

(56) **References Cited**
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(57) **ABSTRACT**
A video surveillance system is set up, calibrated, tasked, and operated. The system extracts video primitives and extracts event occurrences from the video primitives using event discriminators. The system can undertake a response, such as an alarm, based on extracted event occurrences.

41 Claims, 7 Drawing Sheets

VIDEO SURVEILLANCE SYSTEM EMPLOYING VIDEO PRIMITIVES

Inventors: Alan J. Lipton, Thomas M. Strick, Peter L. Verelander, Mark C. Allison, William E. Severson, Niels Haring, Andrew J. Chouk, Zhong Zhang, Matthew F. Frazier, James S. Suckow, Takashi Hirata, John Clark (US); Niels Haring (US); Andrew J. Chouk (US); Zhong Zhang (US); Matthew F. Frazier (US); James S. Suckow (US); Takashi Hirata (US); John Clark (US)

Assignee: ObjectVideo, Inc.

Challenge 1-

Ex. 1001 ('923 Patent)

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The '923 Patent

'923 Patent

A video surveillance system is set up, calibrated, and operated. The system extracts video primitive event occurrences from the video primitive event occurrences. The system can undertake a real-time alarm, based on extracted event occurrences.

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