

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

SAMSUNG ELECTRONICS CO., LTD.; AND
SAMSUNG ELECTRONICS AMERICA, INC.
Petitioners

v.

IMAGE PROCESSING TECHNOLOGIES, LLC
Patent Owner

IPR2017-01190
Patent 6,717,518 B1

Before JONI Y. CHANG, MIRIAM L. QUINN, and
SHEILA F. McSHANE, *Administrative Patent Judges*.

McSHANE, *Administrative Patent Judge*.

DECISION
Instituting *Inter Partes* Review
35 U.S.C. § 314(a) and 37 C.F.R. § 42.108

I. INTRODUCTION

A. Background

Samsung Electronics Co., Ltd. and Samsung Electronics America, Inc. (“Petitioner”) filed a Petition requesting *inter partes* review of claim 39 (“the challenged claim”) of U.S. Patent No. 6,717,518 B1 (Ex. 1001, “the ’518 patent”) pursuant to 35 U.S.C. §§ 311–319. Paper 2 (“Pet.”). Image Processing Technologies, LLC (“Patent Owner”) filed a Preliminary Response to the Petition. Paper 6 (“Prelim. Resp.”).

We have authority under 35 U.S.C. § 314(a), which provides that an *inter partes* review may not be instituted “unless . . . the information presented in the petition . . . shows that there is a reasonable likelihood that the Petitioner would prevail with respect to at least 1 of the claims challenged in the petition.” *See* 37 C.F.R. § 42.4(a) (“The Board institutes the trial on behalf of the Director.”).

We determine that Petitioner has demonstrated that there is a reasonable likelihood that it would prevail with respect to the one challenged claim. For the reasons described below, we institute an *inter partes* review of claim 39 of the ’518 patent.

B. Related Proceedings

The parties indicate that a related matter is: *Image Processing Technologies LLC v. Samsung Elecs. Co.*, No. 2:16-cv-00505-JRG (E.D. Tex.). Pet. 1, Paper 4, 1. The parties also indicate that *inter partes* review petitions have been filed for other patents asserted in the district court action. Pet. 1–2; Paper 4, 1.

Figure 24, above, illustrates the detection of the edges of a head using histograms. Ex. 1001, 5:64–65. The head edges are detected by looking for peaks in the histogram. *Id.* at 26:49–65. The system then masks portions of an image, and continues to analyze only the unmasked portions. *Id.* at 26:66–27:10; *see also id.* at Fig. 25. The system then uses an anthropomorphic model to set sub-areas for further analysis. *Id.* at 27:31–38. Figure 26, reproduced below, shows the derivation of a sub-area. *See id.* at 27:31–38.

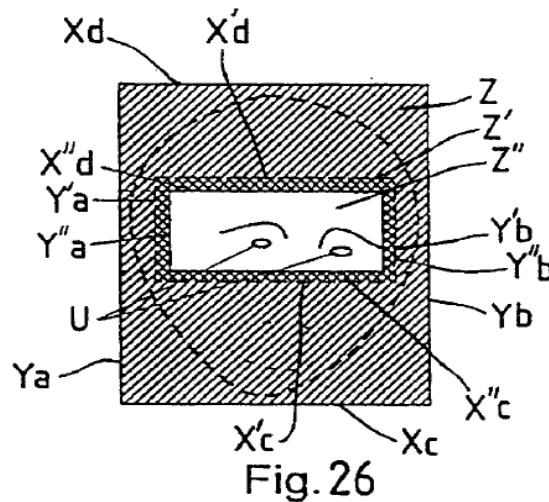
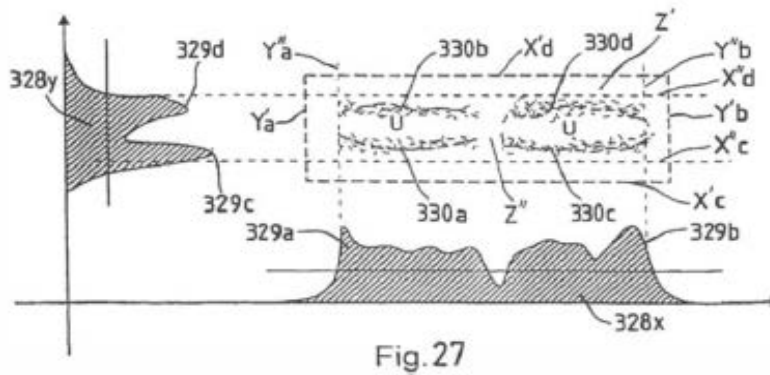


Figure 26, above, depicts masking outside the eyes. Ex. 1001, 6:1–2. The '518 patent includes a variety of methods to identify blinking, including use of histograms to determine whether eyes are open or closed as depicted in Figure 27, reproduced below. *Id.* at 27:52–28:14.



The system checks for eye movement by methods including analyzing the pixels within area Z' depicted above in Figure 27. Ex. 1001, 27:52–55. The peaks of the histogram shown in Figure 27, above, are used to determine whether an eye is open or closed. *Id.* at 28:32–29:10. Characteristics of features in a search box, such as, such as “a moving eyelid, a pupil, iris or cornea, a shape corresponding to an eye, a shadow corresponding to an eye, or any other indicia indicative of an eye,” may also be analyzed. *Id.* at 30:56–59.

Claim 39, with added formatting and paragraph annotations, is reproduced below.

39. A process of detecting a feature of an eye, the process comprising the steps of:
- [a] acquiring an image of the face of the person, the image comprising pixels corresponding to the feature to be detected;
 - [b] identifying a characteristic of the face other than the feature to be detected;
 - [c] identifying a portion of the image of the face comprising the feature to be detected using an anthropomorphic model based on the location of the identified facial characteristic;
 - [d] selecting pixels of the portion of the image having characteristics corresponding to the feature to be detected;

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.