EXHIBIT 2001

January 21, 2021 Letter

Source

Exhibit D to Second Amended Complaint

Lumenco, LLC v. Giesecke+Devrient GmbH (E.D. Tex. No. 2:23-cv-00100-JRG)

Dkt. No. 15-1 – June 14, 2023

EXHIBIT D

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January 21, 2021

Mr. Markus Herbinger
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Re: **LUMENCO, INC. – IMAGING SECURITY PATENT PORTFOLIO**

Dear Mr. Herbinger:

I write on behalf of our client, Lumenco, Inc. ("Lumenco"), a company with which Giesecke+Devrient ("G+D") has explored prior opportunities. Lumenco would like to bring to G+D's attention the following Lumenco patents and pending patent applications (the Lumenco "Anti-Counterfeiting Patent Family"), which are directed to and claim novel technical features and methods in the field of imaging security:

- U.S. Patent No. 10,189,294, entitled "Arrays of individually oriented micro mirrors for use in imaging security devices for currency and brand authentication" (the "'294 patent");
- U.S. Patent No. 10,317,691, entitled "Arrays of individually oriented micro mirrors providing infinite axis activation imaging for imaging security devices" (the "'691 patent");
- U.S. Patent No. 10,901,191[1], entitled "Method of fabricating arrays of individually oriented micro mirrors for use in imaging security devices" (the "'191 patent"); and
- PCT Application No. PCT/US16/61845, entitled "Arrays of individually oriented micro mirrors for use in imaging security devices for currency and brand authentication" (the "'845 application").

Of particular interest to G+D, Lumenco is also in the process of filing a patent application in Germany stemming from the '845 application, which should be on file in the next week.

As G+D is aware from prior conversations with Lumenco executives, Lumenco is a research and development company focused on the micro-optics sector. Founded in 2012, Lumenco has focused

[1] Per the Issue Notification of January 6, 2021, U.S. Patent Application No. 16/203,128 is scheduled to issue as the '191 patent on January 26, 2021.

its research and development on anti-counterfeiting, 3D content conversion, and solar technologies. Lumenco has successfully developed and brought to market a variety of products that integrate micro-optics into items such as currency, IDs, passports, and anti-counterfeiting labels.

Lumenco is aware that G+D has an interest and focus on banknote security technology, including those that would use 3D motifs, dynamic effects, and color shifting to create highly secure banknotes. Lumenco also understands that some of G+D's customers are interested and focused on these same types of technologies, including Bank of China (Hong Kong), the Central Bank of Armenia, and the Bank of Thailand, among others.

The Anti-Counterfeiting Patent Family is directed to anti-counterfeiting technologies for currency and product labelling, among many other applications. In short, the Anti-Counterfeiting Patent Family is directed to technology that employs 3D motifs, dynamic effects, and color shifting that is visible from any perspective and with ambient light. More specifically, the patents describe and claim novel assemblies and methods that generate security-enhancing imaging effects using micro mirror arrays arranged on nano-scale dimensions.

For example, the patents are directed to micro mirror arrays for generating images that are three-dimensional, multi-planar, multi-color, floating, and/or animated. To achieve the effects, the technology utilizes arrays containing millions of micro mirrors to provide animated three-dimensional authentication features that can include color-changes. The technology is operative in low and ambient light conditions, and therefore does not require direct or directional light to provide its security features. Lumenco has also developed proprietary software and related technology, referred to as Dycyfer™, that implements many features described in its patents. That technology has been proof-of-concept tested and is ready for commercialization.

G+D was introduced to Lumenco's proprietary Dycyfer™ technology and its patent applications in early 2017. After discussing the imminent launch of the Dycyfer™ technology with G+D, Lumenco executives Mark Raymond and Hector Porras met with Alfred Kraxenberger, Manfred Heim, Michael Rahm, and Christian Fuhse of Papierfabrik Louisenthal GMBH in Gmund, Germany in May 2017. At that meeting, the parties discussed the application that issued as the '294 patent. G+D subsequently shared some of its own patents and patent applications with Lumenco, which were considered by the United States Patent and Trademark Office during evaluation of the Anti-Counterfeiting Patent Family. Lumenco's patents were granted as novel and non-obvious in view of those patents and patent applications.

Lumenco will soon offer its Anti-Counterfeiting Patent Family and Dycyfer™ technology for sale through a private sale process brokered by Ocean Tomo. Through that process, Lumenco's Anti-Counterfeiting Patent Family and Dycyfer™ technology will be marketed to dozens of companies and banking institutions, including G+D and its competitors, as well as numerous central banking authorities. Lumenco hopes to complete a sale of the Anti-Counterfeiting Patent Family and Dycyfer™ by June of 2021.

We are contacting you in advance of that private sale as a courtesy, and primarily because Lumenco and G+D have had prior discussions about this technology. Lumenco believes that the Anti-

Counterfeiting Patent Family and Dycyfer™ technology would buttress G+D's own in-house technologies and patent portfolios. Moreover, the issued United States patents in the Anti-Counterfeiting Patent Family would allow G+D to prevent others from making and competing with the technology covered by the patents by preventing third party currency exchanges and banks from facilitating the transfer of relevant technology within the United States.

If you have any questions about the Anti-Counterfeiting Patent Family and Dycyfer™ technology in advance of the private sale, Lumenco is happy to discuss them at G+D's convenience.

Sincerely,

C. Matthew Rozier

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