



## Kubota Vision Announces Issuance of Patents

Seattle (April 4, 2023) — Kubota Vision Inc. (“Kubota Vision” or the “Company”), a clinical-stage specialty ophthalmology company and a wholly-owned subsidiary of Kubota Pharmaceutical Holdings Co., Ltd. (Tokyo 4596), today announced the issuance of patents covering Kubota Glass technology and Patient Based Ophthalmology Suite (“PBOS”) from the U.S. Patent and Trademark Office, assigned to the Company, adding strength to the Company’s intellectual property position.

### **(1) Title of the invention:** OPTICAL DESIGNS OF ELECTRONIC APPARATUS TO DECREASE MYOPIA PROGRESSION

**Abstract:** A soft contact lens comprises a plurality of light sources coupled to a plurality of optical elements. The plurality of light sources and the plurality of optical elements are embedded in a soft contact lens material. Each of said plurality of optical elements generates an image focused in front of a peripheral retina of a wearer. In some embodiments, each of the images is focused at a distance in front of the peripheral retina at a location, and each of the images comprises a depth of focus and a spatial resolution. The depth of focus can be less than the distance, and the spatial resolution greater than a spatial resolution of the peripheral retina at the location.

**Issuance country:** United States of America

**Patent number:** US 11,619,831

**Date of Patent:** April 4, 2023

**Assignee:** Acucela Inc.

### **(2) Title of the invention:** ARTIFICIAL INTELLIGENCE FOR EVALUATION OF OPTICAL COHERENCE TOMOGRAPHY\*<sup>1</sup> IMAGES

**Abstract:** A neural network is trained to segment interferogram images. A first plurality of interferograms are obtained, where each interferogram corresponds to data acquired by an OCT system using a first scan pattern, annotating each of the plurality of interferograms to indicate a tissue structure of a retina, training a neural network using the plurality of interferograms and the annotations, inputting a second plurality of interferograms corresponding to data acquired by an OCT system using a second scan pattern and obtaining an output of the trained neural network indicating the tissue structure of the retina that was scanned using the second scan pattern. The system and methods may instead receive a plurality of A-scans and output a segmented image corresponding to a plurality of locations along an OCT scan pattern.

**Patent number:** US 11,620,749

**Date of Patent:** April 4, 2023

**Assignee:** Acucela Inc.

\*<sup>1</sup> Optical Coherence Tomography (OCT) is a non-invasive tool that uses light waves to take cross-section pictures of the retina.

### About Kubota Glass™ Technology

Kubota Glass technology works to aid vision in myopia by projecting specially focused images generated using micro-LEDs in the peripheral visual field. The Company has been conducting and publishing research evaluating the device for the management of myopia. Kubota Glass technology leverages nanotechnology in its electronic glasses-based illumination device and seeks to help manage myopia by providing specially focused illumination while maintaining high-quality central vision.

### About PBOS

PBOS is a low cost, home-based, ophthalmic self-monitoring OCT device. This small handheld device addresses needs in mobile Health (mHealth<sup>\*2</sup>) applications for self-monitoring of retina health by patients, in the home and in remote field locations. The PBOS aims to improve ophthalmic treatment outcomes in patients diagnosed with and treated for wet age-related macular degeneration (AMD), diabetic macular edema (DME) and other neovascular retinal diseases. PBOS is being designed to detect nascent disease progression and support patient re-treatment prior to irreversible vision loss due to disease progression. Key features are low cost and a patient-friendly design, to be used directly by patients at home. PBOS is being designed to capture changes in retinal anatomy. Network connectivity and cloud-based technologies are used to alert the patients and their physicians of disease progression and re-treatment needs.

<sup>\*2</sup> mHealth refers to the usage of mobile communications technology and devices to enhance access to healthcare information, improve distribution of routine and emergency health services, and provide diagnostic services.

### About Kubota Vision Inc.

Kubota Vision Inc. is a wholly owned subsidiary of Kubota Pharmaceutical Holdings Co., Ltd. (Tokyo 4596), committed to translating innovation into a diverse portfolio of drugs and devices to preserve and restore vision for millions of people worldwide. Kubota Pharmaceutical group's pipeline includes a wearable device for myopia control using Kubota Glass technology and a handheld OCT device for the monitoring of neovascular retinal diseases, to be used directly by patients. <https://www.kubotavision.com/>; <https://www.kubotaholdings.co.jp/en/>

### Cautionary Statements

Certain statements contained in this press release are forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934 and the Private Securities Litigation Reform Act of 1995. Any statements contained in this press release that are not statements of historical fact may be deemed to be forward-looking statements. These forward-looking statements include statements regarding our expectations related to our development plans and ability to successfully develop and commercialize our product candidates and the potential efficacy, future development plans and commercial potential of our product candidates. These statements are based on current assumptions that involve risks, uncertainties and other factors that could cause the actual results, events or developments to differ materially from those expressed or implied by such

forward-looking statements. These risks and uncertainties, many of which are beyond our control, include, but are not limited to: our investigational product candidates may not demonstrate the expected safety and efficacy; our pre-clinical development efforts may not yield additional product candidates; any of our or our collaborators' product candidates may fail in development, may not receive required regulatory approvals, or may be delayed to a point where they are not commercially viable; our clinical trials could be delayed; new developments in the intensely competitive ophthalmic pharmaceutical market may require changes in our clinical trial plans or limit the potential benefits of our investigational product candidates; the impact of expanded product development and clinical activities on operating expenses; adverse conditions in the general domestic and global economic markets; as well as the other risks identified in our filings with the Securities and Exchange Commission. These forward-looking statements speak only as of the date hereof and we assume no obligation to update these forward-looking statements, and readers are cautioned not to place undue reliance on such forward-looking statements. For a detailed discussion of the foregoing risks and other risk factors, please refer to our filings with the Securities and Exchange Commission, which are available on Kubota Pharmaceutical Holdings (Kubota Vision's parent company) investor relations website (<https://www.kubotaholdings.co.jp/en/ir/>) and on the SEC's website (<http://www.sec.gov>).

“Kubota Vision,” the Kubota Vision logo and “Kubota” are registered trademarks or trademarks of Kubota Vision Inc. or Kubota Pharmaceutical Holdings in various jurisdictions.

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