DeepLook™

DeepLook, Inc. Granted U.S. Patent Protection;
Medical Imaging Software Reveals Data Beyond Human Vision

[New Haven, CT – 7/28/20] DeepLook Inc., a Connecticut-based medical software start-up, today obtained U.S. patent protection for innovative medical imaging technology that next year will help launch a suite of new commercial radiology products.

The shape-search technology uniquely reveals the morphology of masses in digital medical imaging. After ten years of development, it was first deployed commercially to search online globally for trademark infringements. The core technology was then applied to medical imaging, with effusive due diligence reviews from practitioners.

Today's patent protects DeepLook's use of the software for all medical imaging using x-ray attenuation – including mammography, CT scans, ultrasound and MRI. The patent (USPTO #10,726,526) is entitled *Digital Image Analysis And Display System Using Radiographic Attenuation Data.* The USPTO granted the patent in 14 months, record time for algorithm software.

"The series of new tools that derive from this patented technology will offer unprecedented speed and accuracy, vividly displaying data beyond the field of human vision," said Greg Belanger, company president. "This software will streamline workflow while keeping decisions in radiologists' hands."

The patented software creates the first-ever contour map of tissue masses on a medical image, showing morphological detail that will be developed to assist in detection and diagnosis of a tumor. The DeepLook software will complement leading AI applications that mark-and-score suspicious areas but cannot themselves display the underlying morphology.

Because the software can delineate hidden shapes, DeepLook has developed *DL Precise*, the first-of-its-kind automated ruler for the precise measurement of suspicious masses. Pending FDA clearance expected in mid-2021, the company will then enter the market with this first product, which will offer unprecedented measurement speed and precision – across imaging modalities and throughout the treatment pathway.

Currently, radiologists and technicians struggle with painstaking, time-consuming manual lesion measurements. *DL Precise* will instantaneously display lesion measurements, including area and volume – all with a single mouse click.

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