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- (54) **Title:** ULTRAWIDE FIELD-OF-VIEW, LARGE DEPTH-OF-FIELD METASURFACE ASSEMBLY FOR MICROENDOSCOPY

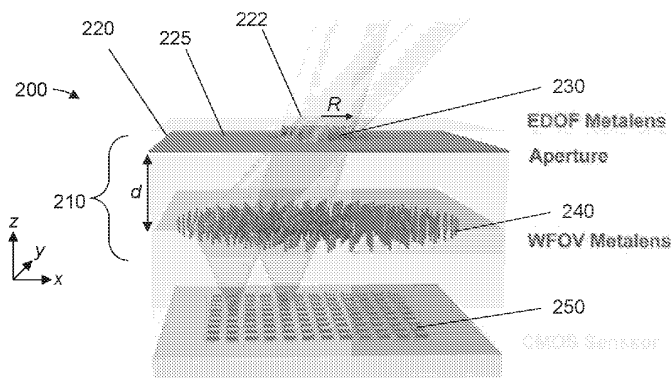


FIG. 2A

- (57) **Abstract:** A pair of metasurfaces are used in a microendoscope to provide imaging over a 172° field-of-view with a depth-of-focus extending from 0.3 mm to >300 mm. The range of operating wavelength can be from 450 nm to 1550 nm. The resolution of the microendoscope can be as fine as 115 line-pairs per mm. The dimensions of the microendoscope's meta-optical imager can be as small as approximately 1 mm x 1 mm x 1 mm.

WO 2025/166018 A1