UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE PATENT TRIAL AND APPEAL BOARD

ALIGN TECHNOLOGY, INC. Petitioner

v.

3SHAPE A/S Patent Owner

Case No. PGR2018-00104 Patent 9,962,244

PETITION FOR POST-GRANT REVIEW OF U.S. PATENT No. 9,962,244

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Patent Trial and Appeal Board U.S. Patent & Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450



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A.	Claims 19 and 32
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A.	Claim 31
1 c	. [31.P]: "A focus scanner for recording surface geometry and surface olor of an object"
2 n	2. [31.1]: "a multichromatic light source configured for providing a multichromatic probe light for illumination of the object"
3 p	i. [31.2.a]: "a color image sensor comprising an array of image sensor exclusives for capturing one or more 2D images of light received from said object" 22
V	. [31.2.b]: "where the color image sensor comprises a color filter array omprising at least three types of colors filters, each allowing light in a known vavelength range, W1, W2, and W3 respectively, to propagate through the olor filter".



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	[31.4.a]: "a data processing system configured to derive surface geometrormation for a block of said image sensor pixels from the 2D images in the ck of 2D images captured by said color image sensor"	•
	[31.4.b]: "the data processing system also configured to derive surface or information for the block of said image sensor pixels from at least one of 2D images used to derive the surface geometry information"	
wa	[31.5.a]: "where the data processing system further is configured to ive the surface geometry information is derived from light in a selected velength range of the spectrum provided by the multichromatic light rce"	8.8
10. wit	[31.5.b]: "where the color filter array is such that its proportion of pixels h color filters that match the selected wavelength range of the spectrum is ger than 50%."	3
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	[32.5.b]: "the filters are arranged in a plurality of cells of 6×6 color ers, where the color filters in positions (2,2) and (5,5) of each cell are of the type, the color filters in positions (2,5) and (5,2) are of the W3 type."3	
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_		34.4.d]: "identifying the position along the optical axis at which the ponding correlation measure has a maximum value"	39
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