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

ALIGN TECHNOLOGY, INC.
Petitioner

v.

3SHAPE A/S Patent Owner

Case Nos. PGR2018-00103 Patent No. 9,962,244

CORRECTED DECLARATION OF DR. CHANDRAJIT L. BAJAJ, PH.D. IN SUPPORT OF POST-GRANT REVIEW OF U.S. PATENT NO. 9,962,244

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# TABLE OF CONTENTS

I.	Intr	roduction				
II.	Qua	nalifications and Expertise				
III.	Legal Understanding					
	A.	My U	Understanding of Claim Construction	10		
	В.	B. A Person of Ordinary Skill in the Art				
	C.	C. My Understanding of Obviousness				
	D.					
IV.	Background of the Technologies Disclosed in the '244 Patent					
	A.	Tech	Technical Overview of Intraoral Scanners			
		1.	Early Medical Imaging	15		
		2.	Image Stitching and Blending	17		
		3.	Image Processing	18		
		4.	3D Modeling	19		
		5.	Color 3D Modeling using Intraoral Scanners	21		
	B.	Over	view of the '244 Patent	27		
V.	Claims 19, 25, and 32 lack support in the Provisional Application requiring PGR eligibility for the '244 Patent					
	A.	Clair	ns 19 and 32	30		
	В.	Clair	m 25	32		
VI.	Cla	im Co	nstruction	34		
VII.	The combinations of (a) Fisker and Szeliski and (b) Fisker and Matsumoto render claims 1-5, 7-10, 15, 16, 18, 21, 22, 24, 26, and					
	28	28 obvious				
	A. Overview of Fisker			34		
	В.	B. Overview of Szeliski				
	C. Overview of Matsumoto			38		
	D.	Claim 1		39		
		1.	[1.P]: "A focus scanner for recording surface geometry and surface color of an object"	39		



2.	[1.1]: "a multichromatic light source configured for providing a multichromatic probe light for illumination of the object."
3.	[1.2]: "a color image sensor comprising an array of image sensor pixels for capturing one or more 2D images of light received from said object"
4.	[1.3.a]: "wherein the focus scanner is configured to operate by translating a focus plane along an optical axis of the focus scanner"
5.	[1.3.b]: "wherein the focus scanner is configured to operate bycapturing a series of the 2D images, each 2D image of the series is at a different focus plane position such that the series of captured 2D images forms a stack of 2D images"
6.	[1.4.a]: "a data processing system configured to derive surface geometry information for a block of said image sensor pixels from the 2D images in the stack of 2D images captured by said color image sensor"
7.	[1.4.b]: "the data processing system also configured to derive surface color information for the block of said image sensor pixels from at least one of the 2D images used to derive the surface geometry information"
8.	[1.5.a]: "wherein the data processing system further is configured to combining [sic] a number of sub-scans to generate a digital 3D representation of the object"
9.	[1.5.b]: "determining [sic] object color of a least one point of the generated digital 3D representation of the object from sub-scan color of the sub-scans combined to generate the digital 3D representation"
10.	[1.5.c]: "such that the digital 3D representation expresses both geometry and color profile of the object"53
11.	[1.6]: "wherein determining the object color comprises computing a weighted average of sub-scan color values derived for corresponding points in overlapping subscans at that point of the object surface."
	a) Fisker54



	b)	Szeliski	57
	c)	Matsumoto	59
	d)	Motivation to Combine	62
E.	data process of a part of information	The focus scanner according to claim 1, wherein the sing system is configured for generating a sub-scan the object surface based on surface geometry and surface color information derived from a blocks of image sensor pixels."	70
F.	scanner syst configured t	The focus scanner according to claim 1, where the tem comprises a pattern generating element for incorporating a spatial pattern in said probe	71
G.	deriving the information correlation a captured by function, where the capture of	The focus scanner according to claim 1, where a surface geometry information and surface color a comprises calculating for several 2D images a measure between the portion of the 2D image said block of image sensor pixels and a weight there the weight function is determined based on of the configuration of the spatial pattern."	72
Н.	deriving the information identifying	The focus scanner according to claim 4, wherein a surface geometry information and the surface color of for a block of image sensor pixels comprises the position along the optical axis at which the ang correlation measure has a maximum value."	75
I.	maximum c correlation and/or the h	The focus scanner according to claim 6, where the correlation measure value is the highest calculated measure value for the block of image sensor pixels highest maximum value of the correlation measure the block of image sensor pixels."	76
J.	data process color for a p color inform correlation	The focus scanner according to claim 5, wherein the sing system is configured for determining a sub-scan point on a generated sub-scan based on the surface nation of the 2D image in the series in which the measure has its maximum value for the ng block of image sensor pixels."	77



K.	data p color color corre-	n 9: "The focus scanner according to claim 8, wherein the processing system is configured for deriving the sub-scan for a point on a generated sub-scan based on the surface information of the 2D images in the series in which the lation measure has its maximum value for the sponding block of image sensor pixels and on at least one fonal 2D image."	80
L.	data p	n 10: "The focus scanner according to claim 9, where the processing system is configured for interpolating surface information of at least two 2D images in a series when mining the sub-scan color."	82
M.	color least wave	in 15: "The focus scanner according to claim 1, where the image sensor comprises a color filter array comprising at three types of colors filters, each allowing light in a known length range, W1, W2, and W3 respectively, to propagate gh the color filter."	83
N.	surface wave	n 16: "The focus scanner according to claim 15, where the ce geometry information is derived from light in a selected length range of the spectrum provided by the chromatic light source."	84
O.	Claim 18: "The focus scanner according to claim 16, wherein the selected wavelength range matches the W2 wavelength range."		85
P.	Claim 21: "The focus scanner according to claim 3, where the information of the saturated pixel in the computing of the pattern generating element is configured to provide that the spatial pattern comprises alternating dark and bright regions arranged in a checkerboard pattern."		
Q.	Claim 22		
	1.	[22.P]: "A method of recording surface geometry and surface color of an object"	87
	2.	[22.1]: "obtaining a focus scanner according to claim 1."	87
	3.	[22.2]: "illuminating the surface of said object with multichromatic probe light from said multichromatic light source"	88



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