



# Patent Document Report

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A. Claim Language Errors/Warnings

Claim	Error/Warning Type	Error/Warning Message	Claim Term	Citation in Document
1. ( <b>original</b> ) A color measurement instrument comprising: an integrating sphere having a sample port and a viewing port; the beam splitter optically aligned with said viewing port and said sample port; a camera optically connected to said beam splitter to provide an image of the sample at said sample port; and said color measurement system optically connected to said beam splitter to measure the color of the sample at said sample port.	Errors	Claim is amended, but its indicator does not reflect the amendment	original	Page 1, line 31
2. A color measurement instrument as defined in claim 45 further comprising reticule means for inserting targeting information into the image of the sample.	Errors	Claim depends from invalid parent!		
4. (currently <b>amended[1]</b> ) A color measurement instrument as defined in claim 1 further comprising field stop means for providing a selectable field stop optically between said viewing port and said color measurement system.	Errors	1. Claim's status indicator says that it is indicated as amended, but it is not actually amended	amended	Page 2, line 1
	Syntax Warnings	2. Statutory classes of the claim and its parent do not match		
5. A color measurement instrument as defined in claim 1 wherein said sphere is capable of presenting <b>both[2]</b> specular included and specular <b>excluded[1]</b> output at said viewing port.	Style Warnings	1. Claim includes excluding phrases	excluded	Page 2, line 6
	Style Warnings	2. Claim includes expressions that may be limiting	both	Page 2, line 6
7. ( <b>Cancelled</b> ) A color measurement instrument comprising: an integrating sphere defining a sample port and a viewing port; a camera optically aligned with said sample port and said viewing port for acquiring an image of a sample at said sample port to determine if the sample is properly aligned with said sample port; and a color measurement system optically aligned with said sample port and said viewing port to measure the color of the sample at said sample port.	Errors	Claim is indicated as cancelled, yet it still contains text	Cancelled	Page 2, line 11

8. A color measurement instrument as defined in claim 7[2] further comprising a beam splitter having a first output optically connected to said camera and a second output optically connected to said color measurement system.	Syntax Warnings	1. Statutory classes of the claim and its parent do not match		
	Errors	2. Claim depends from an invalid parent	7	Page 2, line 18
9. A color measurement instrument as defined in claim 7[2] further comprising reticule means for inserting reference alignment information into the image of the sample.	Syntax Warnings	1. Statutory classes of the claim and its parent do not match		
	Errors	2. Claim depends from an invalid parent	7	Page 2, line 22
11. A color measurement instrument as defined in claim 7[2] further comprising field stop means optically between said sample port and said color measurement system for providing a selectable field stop.	Syntax Warnings	1. Statutory classes of the claim and its parent do not match		
	Errors	2. Claim depends from an invalid parent	7	Page 2, line 28
12. A color measurement instrument as defined in claim 7[3] wherein said sphere includes means for enabling specular-included and specular-excluded[2] readings to be taken at said viewing port.	Syntax Warnings	1. Statutory classes of the claim and its parent do not match		
	Style Warnings	2. Claim includes excluding phrases	excluded	Page 2, line 33
	Errors	3. Claim depends from an invalid parent	7	Page 2, line 32
13. A color measurement instrument as defined in claim 13 wherein said color measurement system is a spectrograph.	Errors	Claim cannot depend from itself!		
18. A color measurement instrument as defined in claim 14 wherein said integrating sphere is capable of providing both[2] specular-included and specular-excluded[1] readings at said viewing port.	Style Warnings	1. Claim includes excluding phrases	excluded	Page 3, line 16
	Style Warnings	2. Claim includes expressions that may be limiting	both	Page 3, line 16

B. Antecedents Errors/Warnings

Antecedent Error/Warning Type	Claim Number	Claim Term	Citation in Document
1. (original) <b>A color measurement instrument [5]</b> comprising: an integrating sphere having a sample port and a viewing port; <b>the beam splitter [1]</b> optically aligned with said viewing port and said sample port; a camera optically connected to <b>said beam splitter [2]</b> to provide an image of the sample at said sample port; and <b>said color measurement system optically connected [3]</b> to <b>said beam splitter [4]</b> to measure the color of the sample at said sample port.	Missing Antecedent	1. the beam splitter	Page 1, line 32
	Missing Antecedent	2. said beam splitter	Page 1, line 33
	Missing Antecedent	3. said color measurement system optically connected	Page 1, line 34
	Missing Antecedent	4. said beam splitter	Page 1, line 35
	Preamble may be limiting for this term	5. A color measurement instrument	Page 1, line 31
2. A color measurement instrument as defined in claim 45 further comprising reticule means for inserting targeting information into <b>the image</b> of the sample.	Missing Antecedent	the image	Page 1, line 38
3. A color measurement instrument as defined in claim 2 wherein said reticule means comprises a physical reticule optically between <b>said viewing [1]</b> port and <b>said camera[2]</b> .	Missing Antecedent	1. said viewing	Page 1, line 41
	Missing Antecedent	2. said camera	Page 1, line 41
4. (currently amended) A color measurement instrument as defined in claim 1 further comprising field stop means for providing a selectable field stop optically between said viewing port and <b>said color measurement system</b> .	Missing Antecedent	said color measurement system	Page 2, line 3
6. A color measurement instrument as defined in claim 1 wherein <b>said color measurement system</b> comprises a spectrograph.	Missing Antecedent	said color measurement system	Page 2, line 8
13. A color measurement instrument as defined in claim 13 wherein <b>said color measurement system</b> is a spectrograph.	Missing Antecedent	said color measurement system	Page 2, line 36
14. <b>A color measurement instrument [1]</b> comprising: <b>an integrating [3]</b> sphere having <b>a sample [5]</b> port and <b>a viewing [4]</b> port, said sphere further including <b>a sample [5]</b> holder for retaining <b>a sample [5]</b> in position at said sample port; beam splitter means optically aligned with said viewing port and said sample port for splitting the light reflected thorough said viewing port from <b>a sample [5]</b> at said sample port; camera means optically connected to said beam, splitter for acquiring an image of <b>a sample [5]</b> at said sample port; a color measurement system optically connected to said beam splitter for determining the color of the sample at said sample port; and reticule means for providing sample alignment information to <b>said video camera[2]</b> .	Preamble may be limiting for this term	1. A color measurement instrument	Page 2, line 39
	Missing Antecedent	2. said video camera	Page 3, line 2
	Possibly Ambiguous	3. an integrating	Page 2, line 39
	Possibly Ambiguous	4. a viewing	Page 2, line 40
	Possibly Ambiguous	5. a sample	Page 2, line 43
	Possibly Ambiguous	6. a sample	Page 2, line 44
20. <b>A color measurement instrument [1]</b> including: <b>an integrating [2]</b> sphere defining a sample port in which a sample may be positioned and <b>a viewing [3]</b> port; camera means optically aligned with said ports	Preamble may be limiting for this term	1. A color measurement instrument	Page 3, line 22
	Possibly Ambiguous	2. an integrating	Page 3, line 22

<p>for capturing an image of the position of the sample within the sample port; and measurement means for acquiring information regarding the color of the sample within the sample port, said measurement means optically aligned with said ports.</p>	<p>Possibly Ambiguous</p>	<p>3. a viewing</p>	<p>Page 3, line 23</p>
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C. Document Language Errors/Warnings

Error/Warning Message	Term	Citation
Document text includes potentially limiting language.	both	Page 1, line 9
	both	Page 2, line 6
	both	Page 3, line 16
	Both	Page 4, line 9
	both	Page 5, line 1
	both	Page 6, line 13
	both	Page 6, line 17
	both	Page 6, line 21
	Both	Page 7, line 35
	both	Page 9, line 5
	both	Page 10, line 16
	both	Page 11, line 34
	both	Page 12, line 12
	well	Page 4, line 1
	well	Page 7, line 25
	well	Page 8, line 13
	well	Page 10, line 38
	well	Page 12, line 17
	well	Page 12, line 19
	all	Page 5, line 21
	all	Page 8, line 30
	All	Page 10, line 38
	all	Page 12, line 8
	necessary	Page 6, line 26
	necessary	Page 12, line 2
necessary	Page 12, line 3	

	<p>individual</p> <p>Each</p> <p>each</p> <p>Each</p> <p>each</p> <p>each</p> <p>each</p> <p>always</p> <p>the entire</p> <p>preferably</p> <p>Preferably</p> <p>only</p> <p>only</p> <p>continually</p> <p>without</p>	<p>Page 6, line 34</p> <p>Page 7, line 12</p> <p>Page 7, line 14</p> <p>Page 7, line 15</p> <p>Page 7, line 16</p> <p>Page 10, line 14</p> <p>Page 10, line 28</p> <p>Page 7, line 13</p> <p>Page 7, line 27</p> <p>Page 7, line 32</p> <p>Page 10, line 16</p> <p>Page 8, line 9</p> <p>Page 8, line 14</p> <p>Page 11, line 26</p> <p>Page 12, line 32</p>
Text includes excluding phrases	<p>exclusive</p> <p>excluded</p> <p>excluded</p> <p>excluded</p> <p>excluded</p> <p>except</p> <p>without</p>	<p>Page 1, line 28</p> <p>Page 2, line 6</p> <p>Page 2, line 33</p> <p>Page 3, line 16</p> <p>Page 8, line 4</p> <p>Page 11, line 26</p> <p>Page 12, line 32</p>
Text includes contrasting phrases	<p>However</p>	<p>Page 4, line 22</p>
Do not use words such as 'invention' or 'embodiment'	<p>INVENTION</p> <p>invention</p> <p>INVENTION</p>	<p>Page 3, line 32</p> <p>Page 3, line 34</p> <p>Page 4, line 29</p>

	invention	Page 4, line 31
	invention	Page 5, line 7
	invention	Page 5, line 11
	invention	Page 6, line 8
	invention	Page 7, line 11
	invention	Page 8, line 36
	invention	Page 12, line 21
	invention	Page 12, line 25
	invention	Page 12, line 26
	invention	Page 12, line 28
	invention	Page 12, line 28
	invention	Page 12, line 31
	invention	Page 12, line 33
	embodiment	Page 5, line 13
	EMBODIMENT	Page 6, line 3
	embodiment	Page 6, line 7
	embodiment	Page 7, line 13
	embodiment	Page 10, line 11
	embodiment	Page 11, line 7
	embodiment	Page 11, line 36
	embodiment	Page 12, line 31

D. Claim Terms Without Explicit Support In The Specification

<b>Claim Terms</b>	<b>Claims</b>
camera optically connected	1
color measurement system optically connected	1 and 14
physical reticule	3, 10, and 16
selectable field stop	4, 11, and 17
specular excluded output	5
output optically connected	8
reference alignment information	9
specular-excluded readings	12 and 18
sample alignment information	14

E. Inconsistent Reference Part Numbers

<b>Part Number</b>	<b>Inconsistently Named Part</b>	<b>Consistent Part Name</b>
12	viewing port	sphere ( 5 occurrences)
12	camera	sphere ( 5 occurrences)
14	aperture wheel	wheel ( 11 occurrences)
14	filter wheel	wheel ( 11 occurrences)
20	spectrographs	sample spectrograph ( 7 occurrences)
21	camera	reference spectrograph ( 3 occurrences)
30	viewing port	sample port ( 10 occurrences)
30	sample aperture	sample port ( 10 occurrences)
32	fiber optic cable	viewing port ( 10 occurrences)
32	ports	viewing port ( 10 occurrences)
32	port	viewing port ( 10 occurrences)
10	spectrophotometer	unit ( 1 occurrence)
64	sample aperture plates	plate ( 9 occurrences)
70	arm	sample holder ( 2 occurrences)
80	transmissive sample area	port ( 3 occurrences)
80	area	port ( 3 occurrences)
80	sci / SCE port	port ( 3 occurrences)
120	optics	transfer optics assembly ( 2 occurrences)
120	lens assembly	transfer optics assembly ( 2 occurrences)
120	lens	transfer optics assembly ( 2 occurrences)
120	transfer optics	transfer optics assembly ( 2 occurrences)
84	assembly	illuminator assembly ( 2 occurrences)
86	reflective plug	plug ( 3 occurrences)
100	illuminator	pulse xenon lamp ( 1 occurrence)
132	rear housings	housing ( 3 occurrences)
150	camera card	spacer ( 1 occurrence)
150	card	spacer ( 1 occurrence)
180	aperture	sample area apertures ( 1 occurrence)
180	wheel apertures	sample area apertures ( 1 occurrence)
180	desired aperture	sample area apertures ( 1 occurrence)