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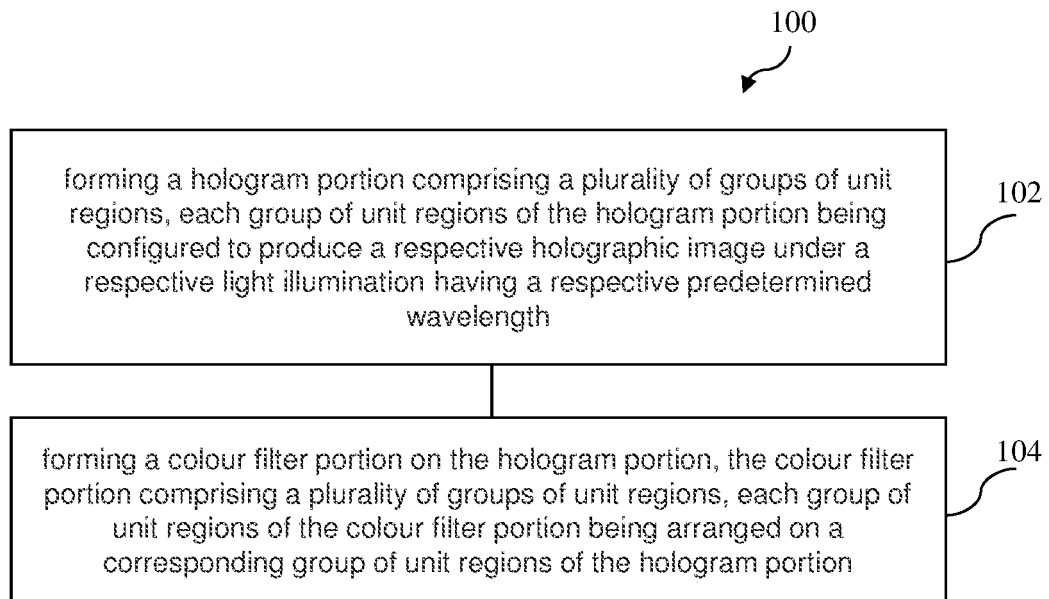


FIG. 1

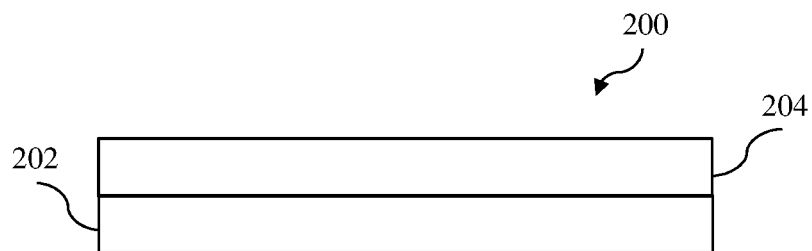


FIG. 2A

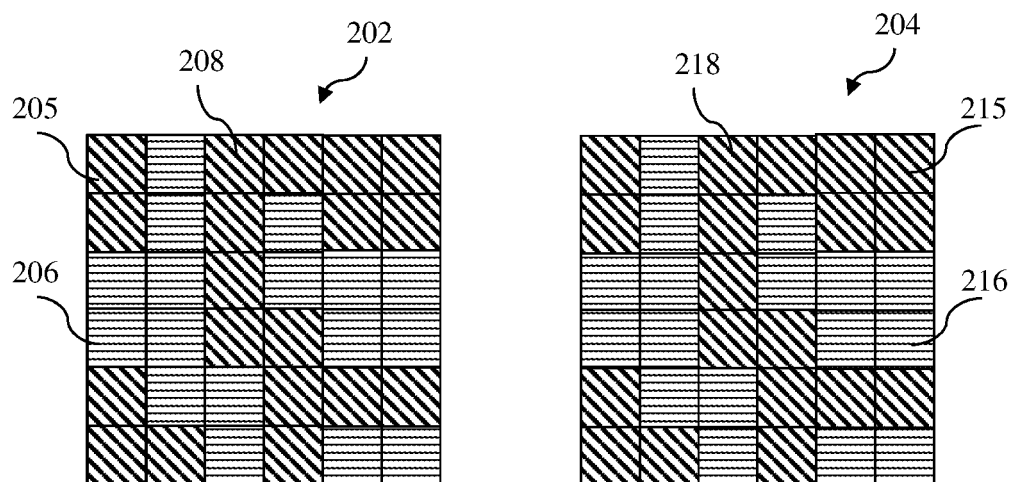


FIG. 2B

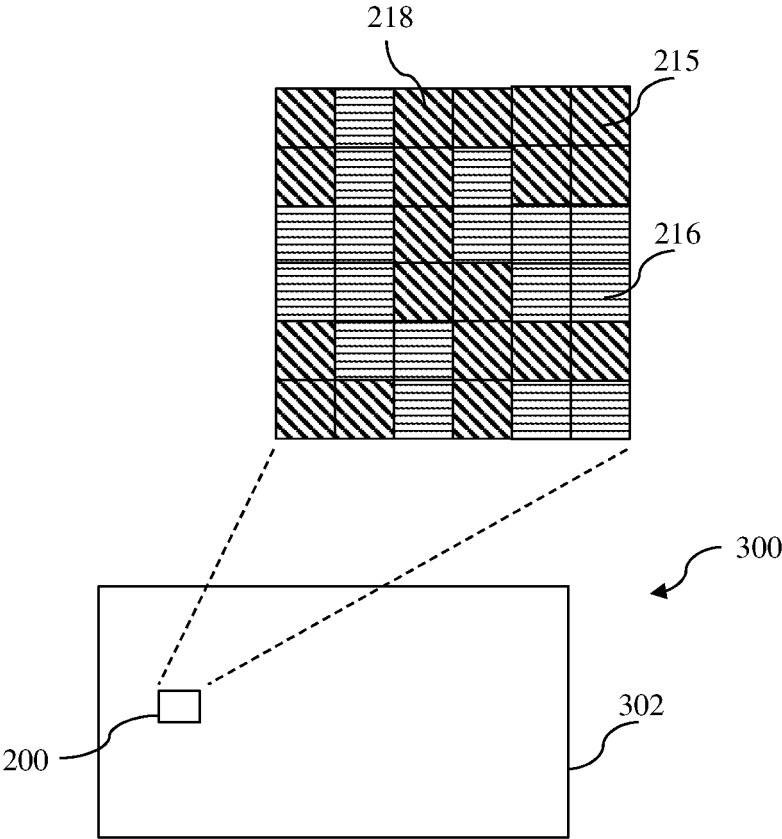


FIG. 3

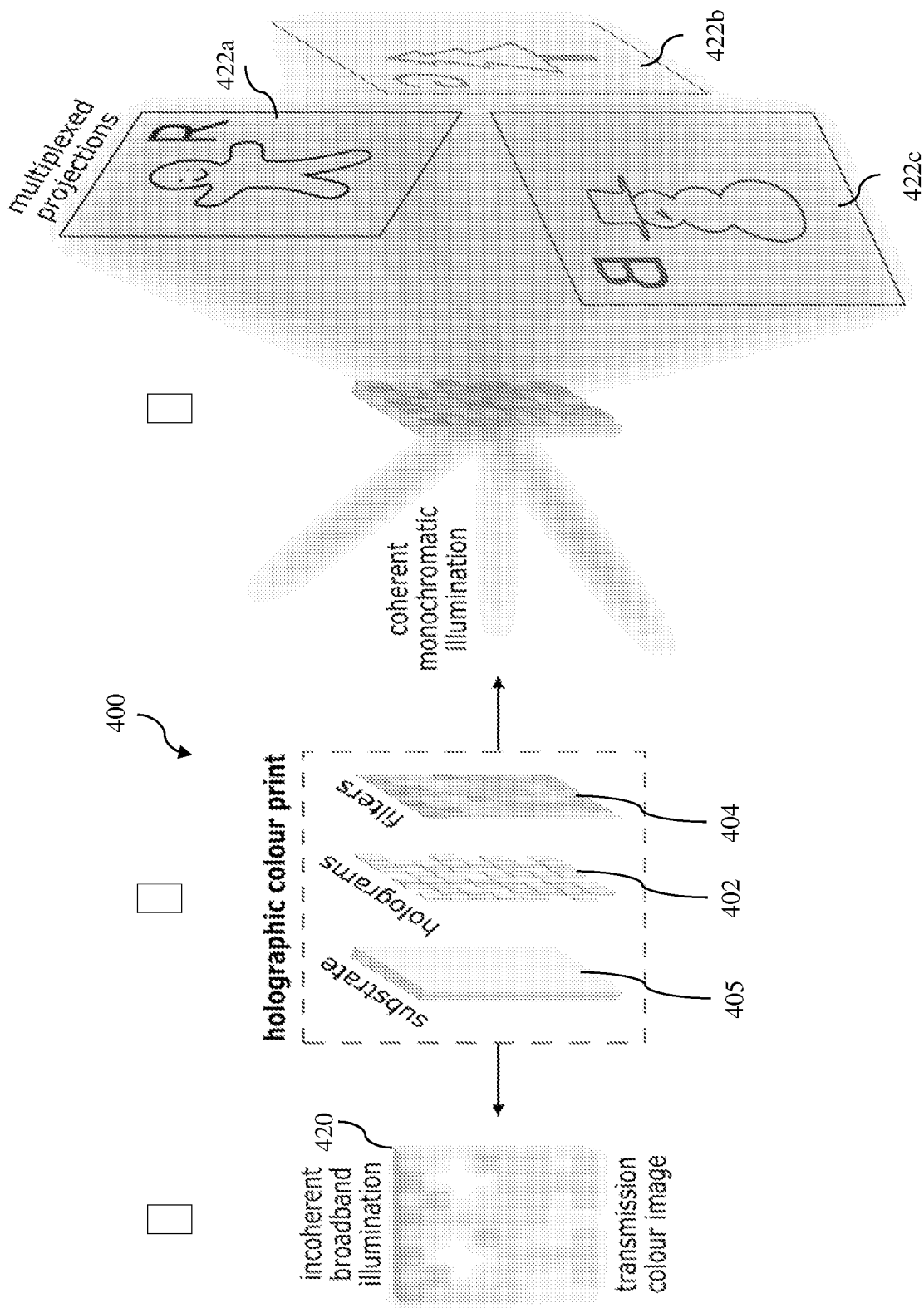
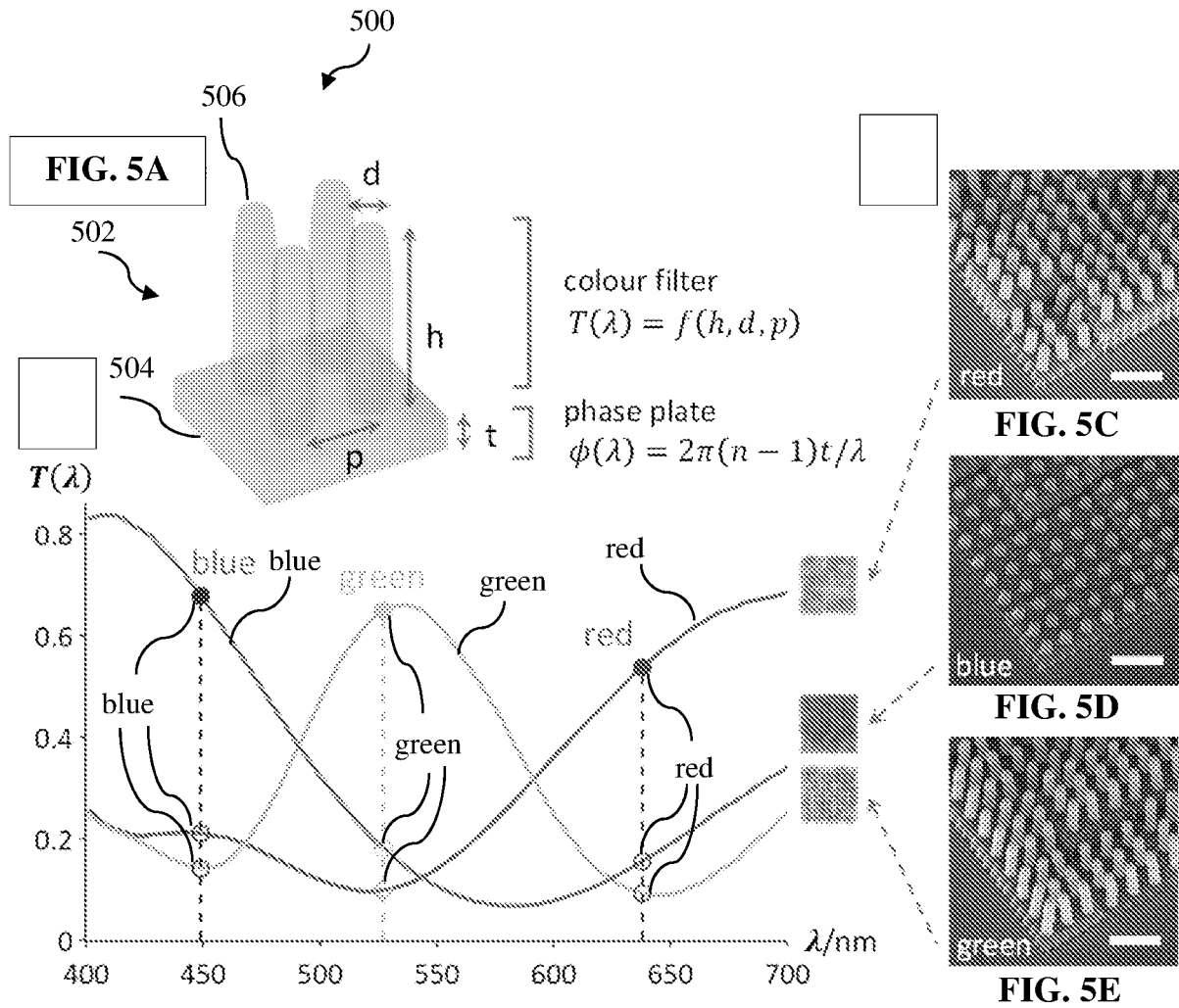


FIG. 4

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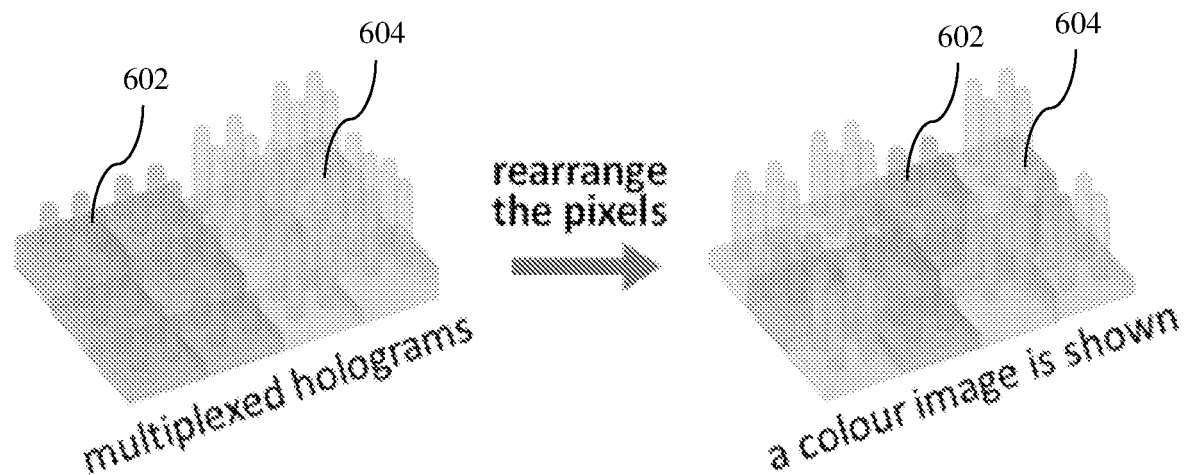


FIG. 6A

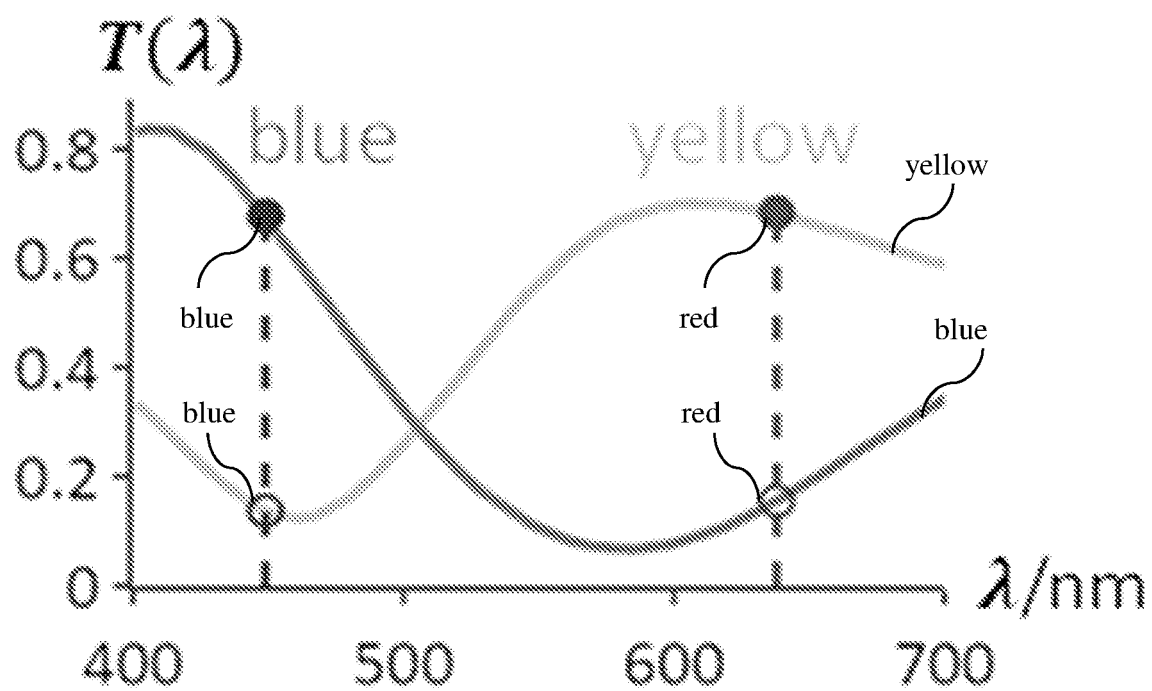


FIG. 6B

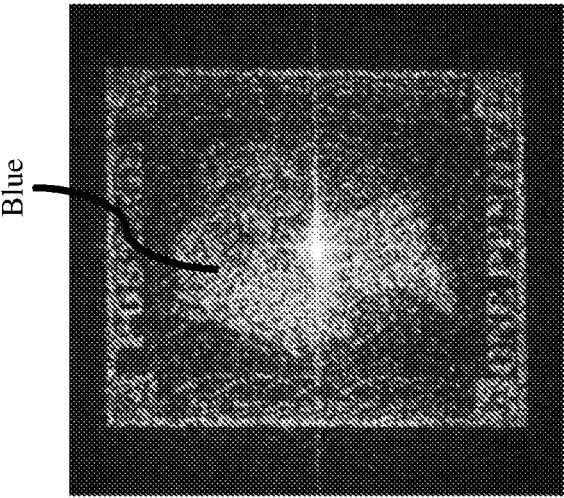


FIG. 6E

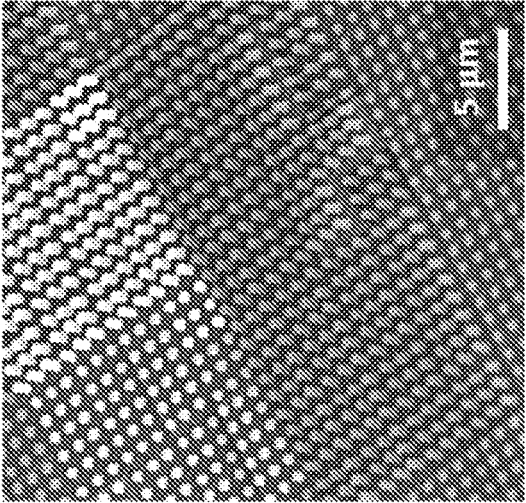


FIG. 6H

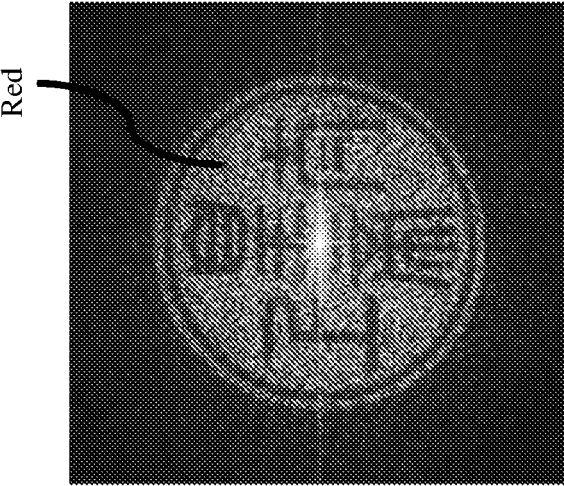


FIG. 6D

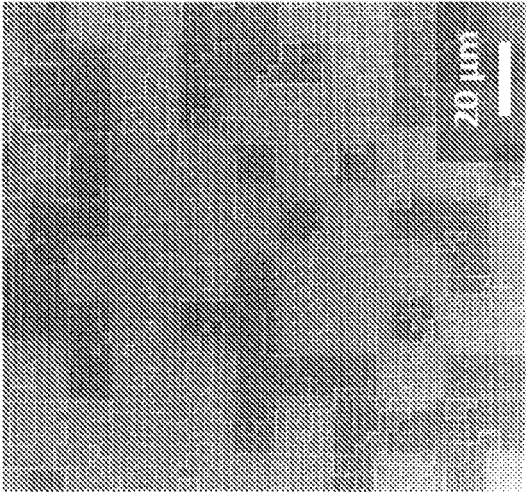


FIG. 6G

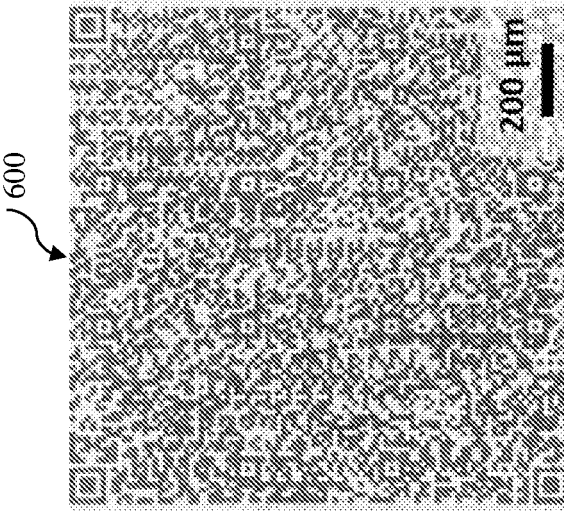


FIG. 6C

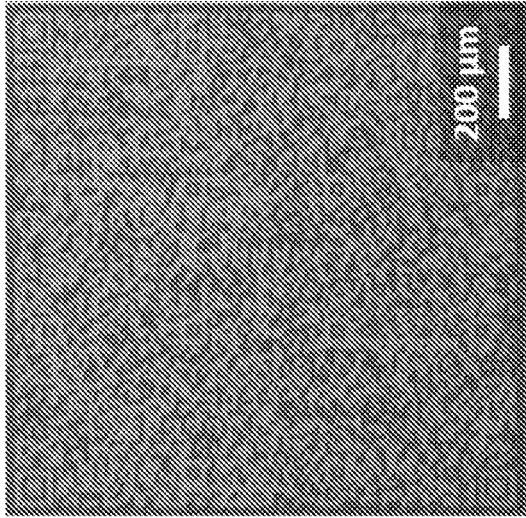


FIG. 6F

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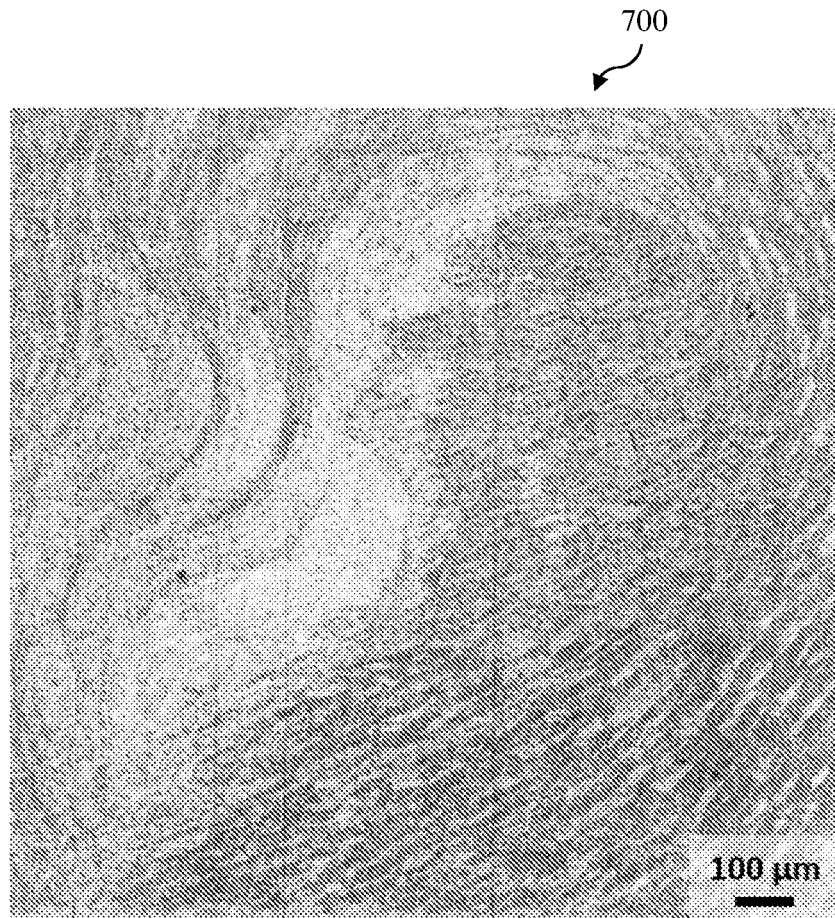


FIG. 7A

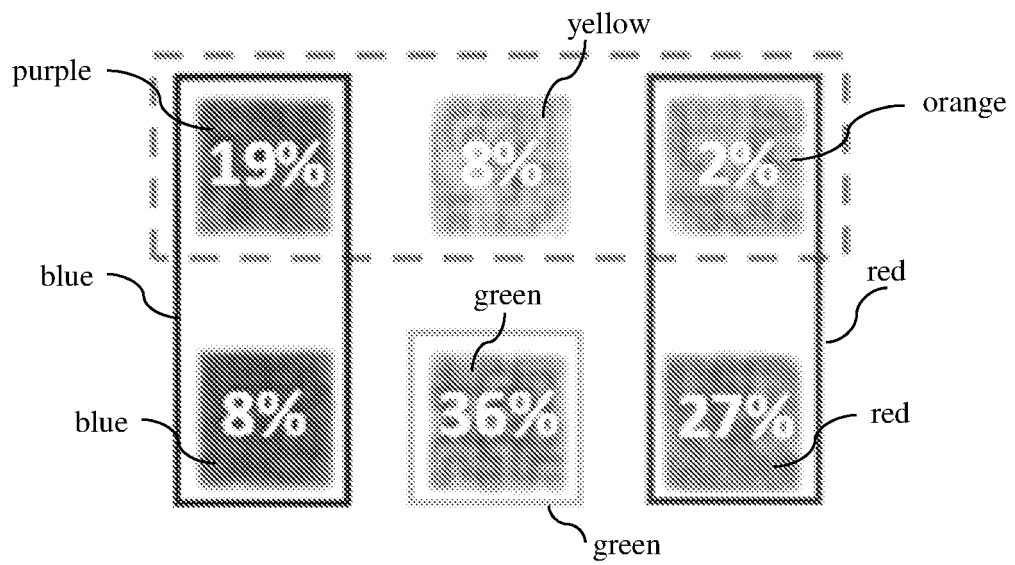


FIG. 7B

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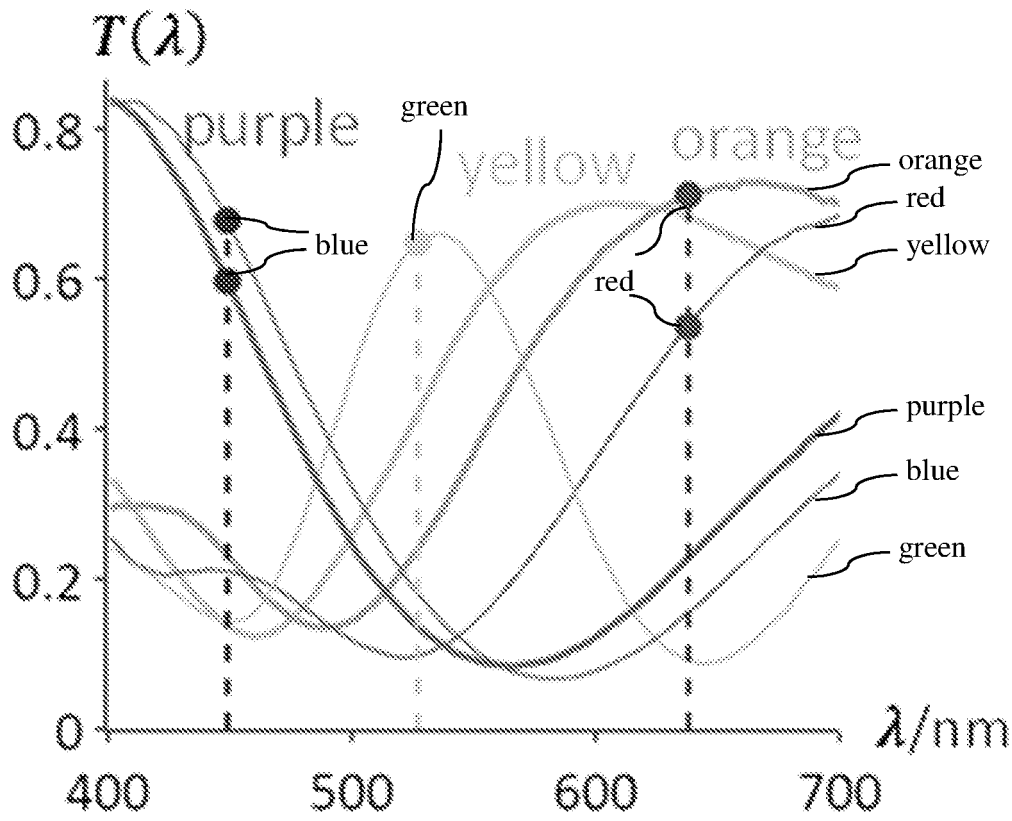


FIG. 7C

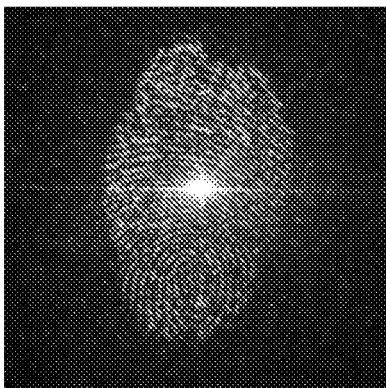


FIG. 7D

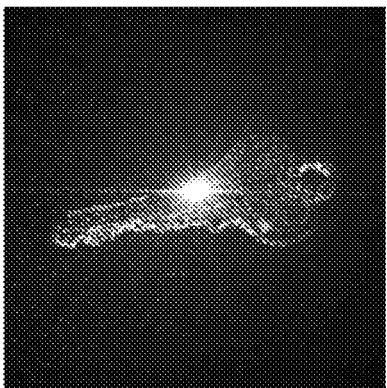


FIG. 7E

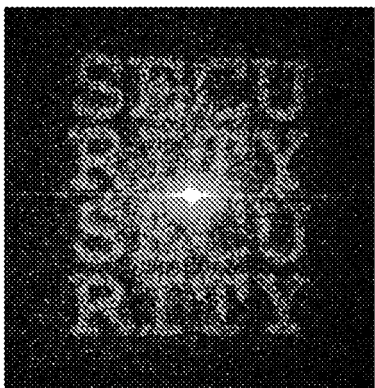


FIG. 7F

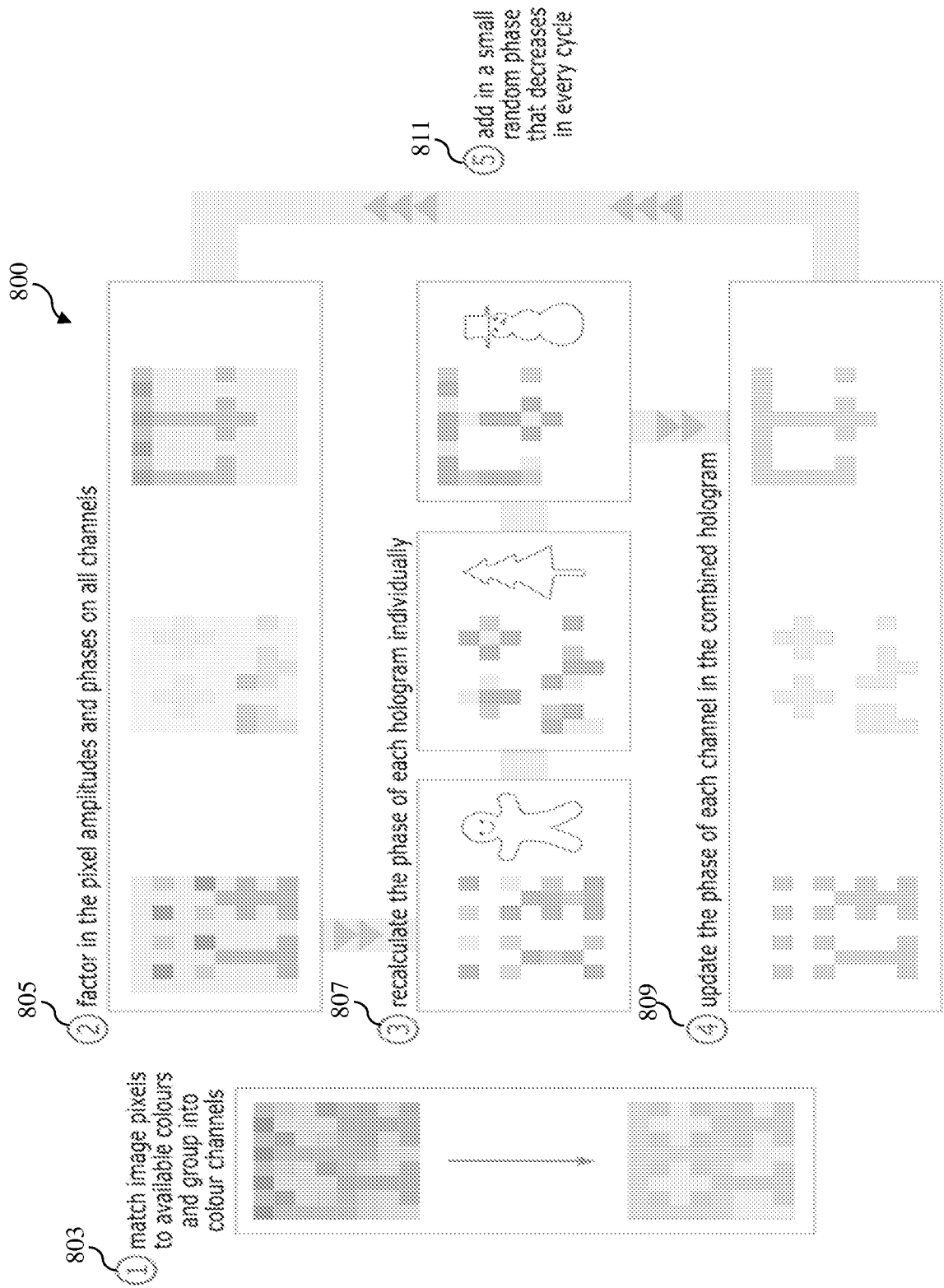


FIG. 8

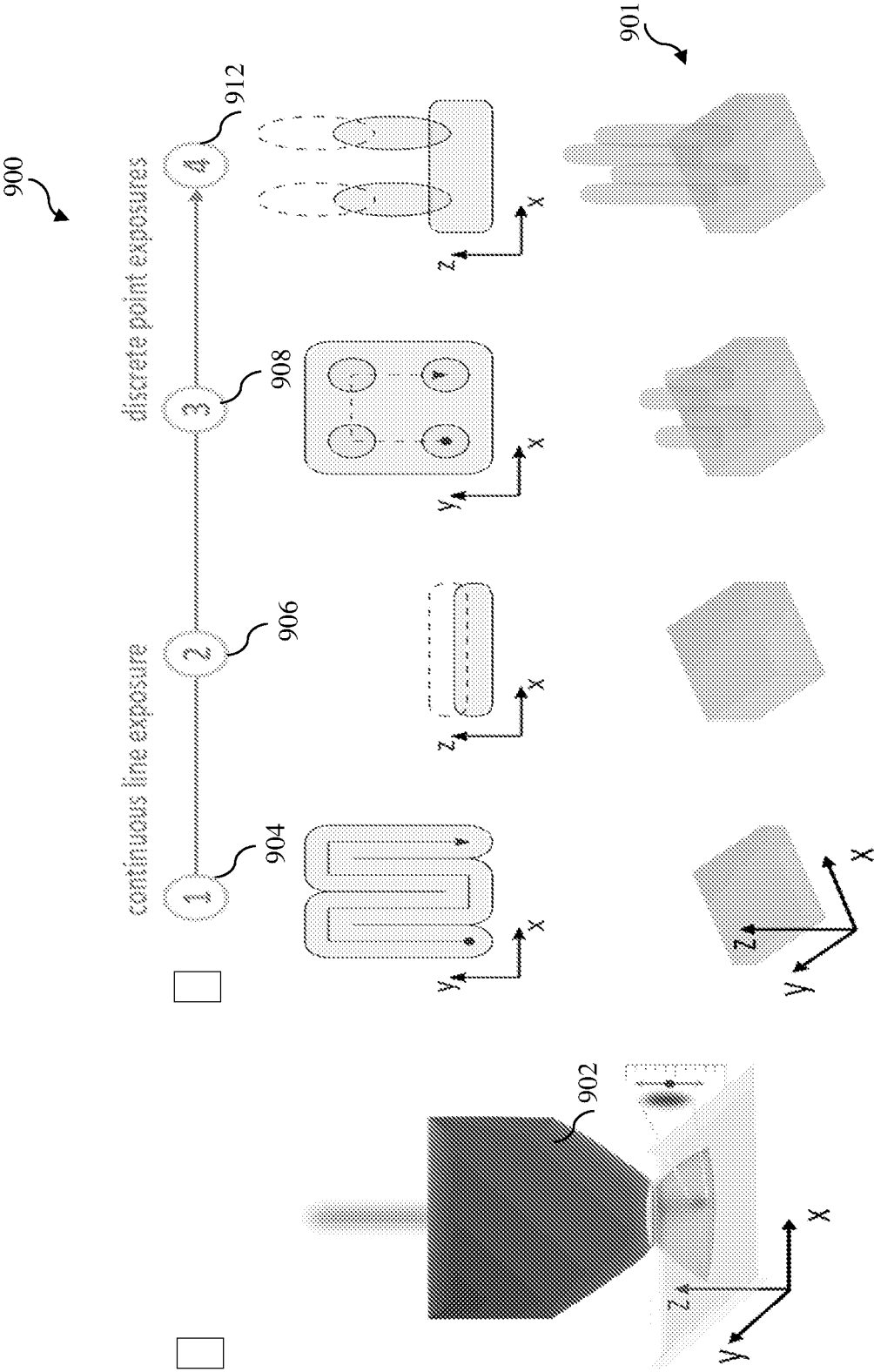


FIG. 9B

FIG. 9A

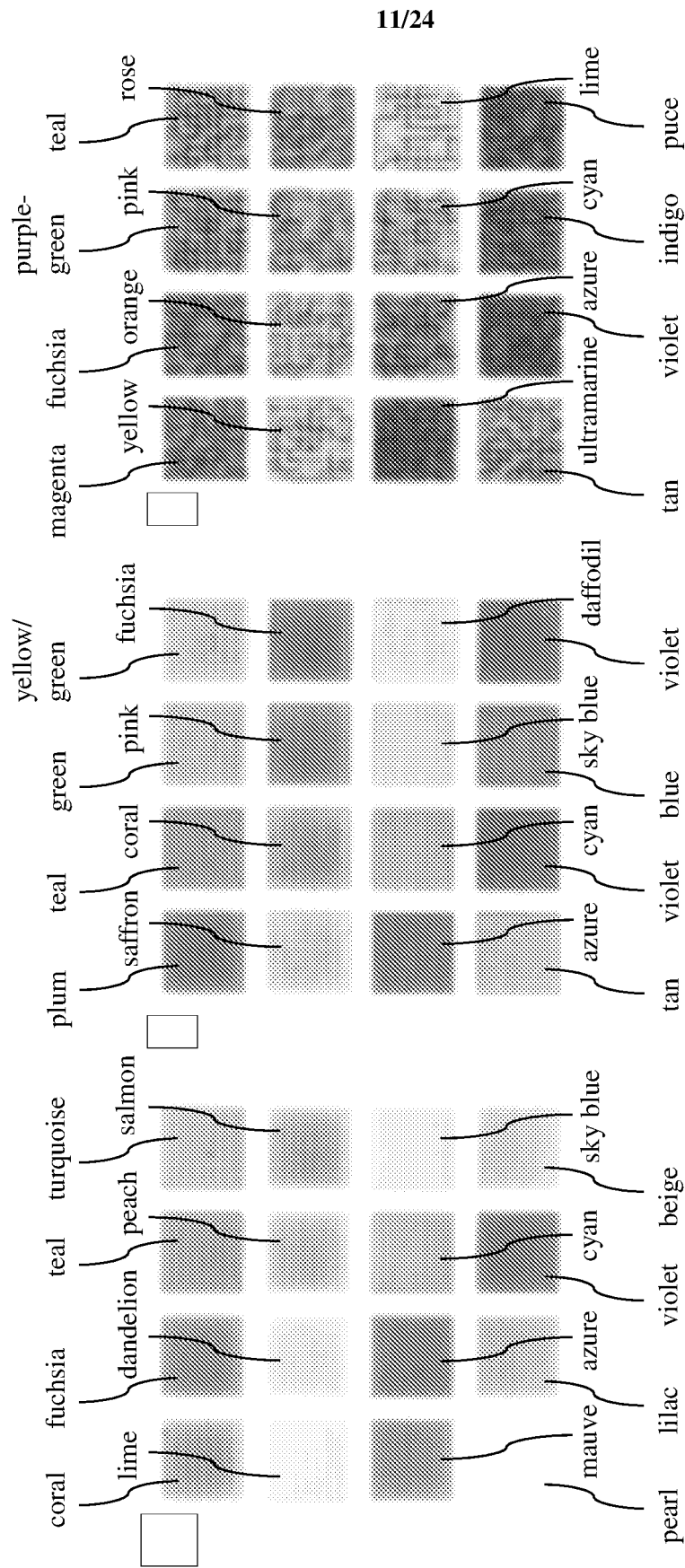


FIG. 10A

FIG. 10B

FIG. 10C

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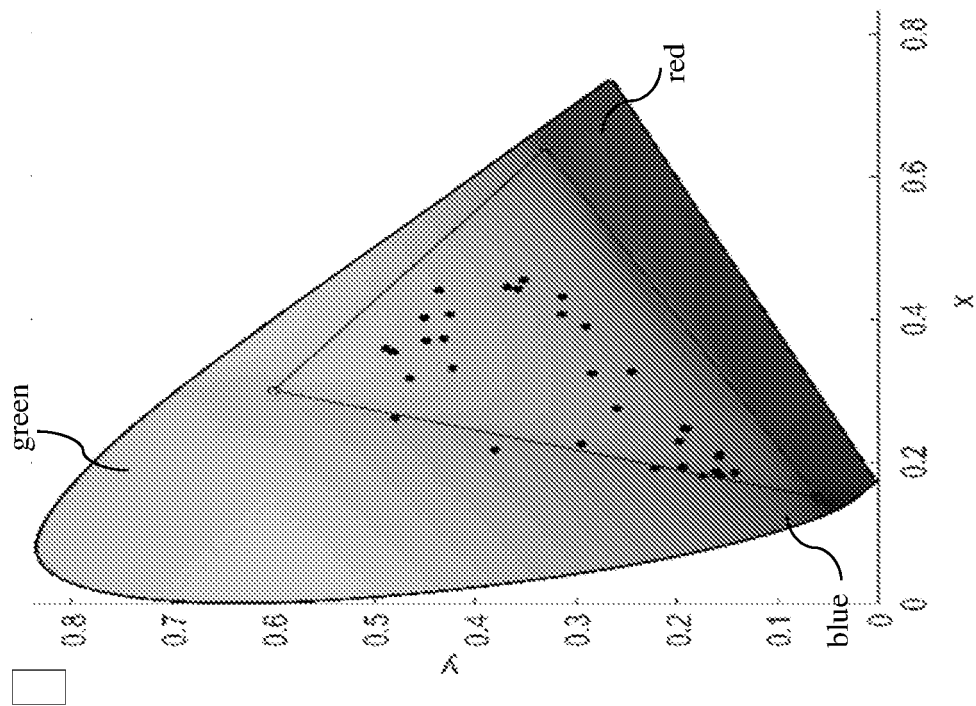


FIG. 11B

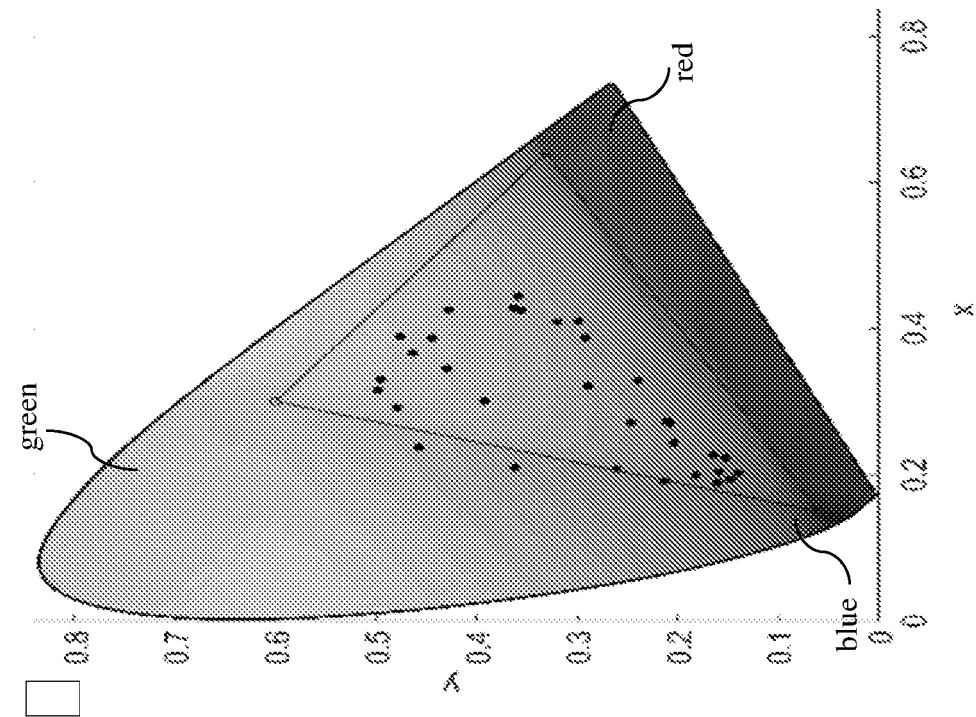


FIG. 11A

1200
↘

<u>Colour</u>	<u>Nominal Height</u>	<u>Nominal Diameter</u>	<u>Transmittance</u>			
			<i>Blue</i> (449±2 nm)	<i>Green</i> (527±2 nm)	<i>Red</i> (638±2 nm)	<i>White</i> (450–650 nm)
Red	1.9 μm	390 nm	21.0%	9.8%	53.7%	24.9%
Orange	1.7 μm	380 nm	23.2%	24.0%	71.2%	39.8%
Yellow	1.5 μm	380 nm	13.7%	42.3%	68.3%	47.7%
Green	2.6 μm	390 nm	14.1%	64.8%	9.2%	36.5%
Blue	0.7 μm	380 nm	67.8%	18.1%	15.5%	22.3%
Purple	1.1 μm	300 nm	59.7%	13.6%	22.6%	21.0%

FIG. 12

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1300

Selectivity of transmission	at blue wavelength	at green wavelength	at red wavelength
purple filter vs green filter	$59.7\% \div 14.1\% = 4.2$		
purple filter vs yellow filter	$59.7\% \div 13.7\% = 4.4$		
purple filter vs orange filter	$59.7\% \div 23.2\% = 2.6$		
purple filter vs red filter	$59.7\% \div 21.0\% = 2.8$		
blue filter vs green filter	$67.8\% \div 14.1\% = 4.8$		
blue filter vs yellow filter	$67.8\% \div 13.7\% = 4.9$		
blue filter vs orange filter	$67.8\% \div 23.2\% = 2.9$		
blue filter vs red filter	$67.8\% \div 21.0\% = 3.2$		
green filter vs purple filter		$64.8\% \div 13.6\% = 4.8$	
green filter vs blue filter		$64.8\% \div 18.1\% = 3.6$	
green filter vs yellow filter		$64.8\% \div 42.3\% = 1.5$	
green filter vs orange filter		$64.8\% \div 24.0\% = 2.7$	
green filter vs red filter		$64.8\% \div 9.8\% = 6.6$	
orange filter vs purple filter			$71.2\% \div 22.6\% = 3.2$
orange filter vs blue filter			$71.2\% \div 15.5\% = 4.6$
orange filter vs green filter			$71.2\% \div 9.2\% = 7.7$
orange filter vs yellow filter			$71.2\% \div 68.3\% = 1.0$
red filter vs purple filter			$53.7\% \div 22.6\% = 2.4$
red filter vs blue filter			$53.7\% \div 15.5\% = 3.5$
red filter vs green filter			$53.7\% \div 9.2\% = 5.8$
red filter vs yellow filter			$53.7\% \div 68.3\% = 0.8$
yellow filter vs purple filter		$42.3\% \div 13.6\% = 3.1$	$68.3\% \div 22.6\% = 3.0$
yellow filter vs blue filter		$42.3\% \div 18.1\% = 2.3$	$68.3\% \div 15.5\% = 4.4$
yellow filter vs green filter		$42.3\% \div 64.8\% = 0.7$	$68.3\% \div 9.2\% = 7.4$
yellow filter vs orange filter		$42.3\% \div 24.0\% = 1.8$	$68.3\% \div 71.2\% = 1.0$
yellow filter vs red filter		$42.3\% \div 9.8\% = 4.3$	$68.3\% \div 53.7\% = 1.3$

FIG. 13

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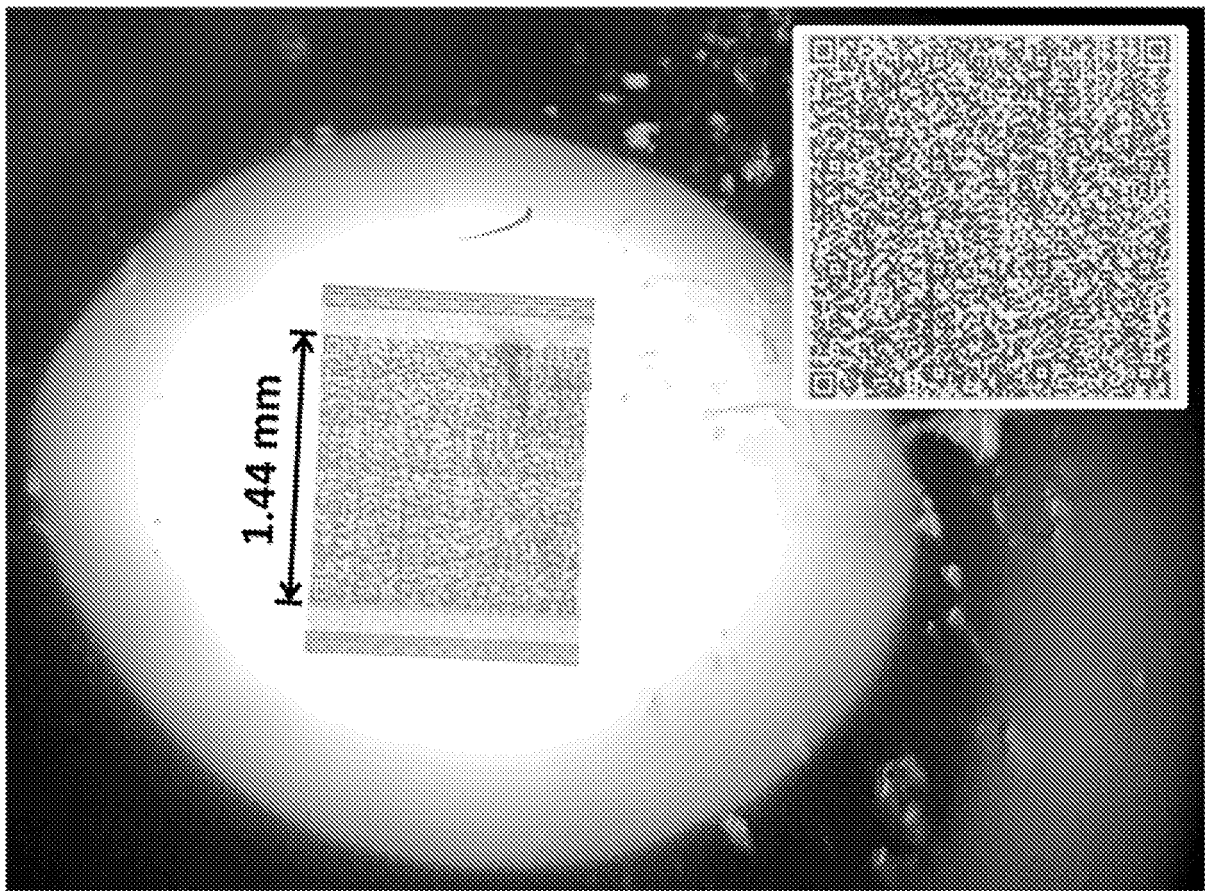


FIG. 14A

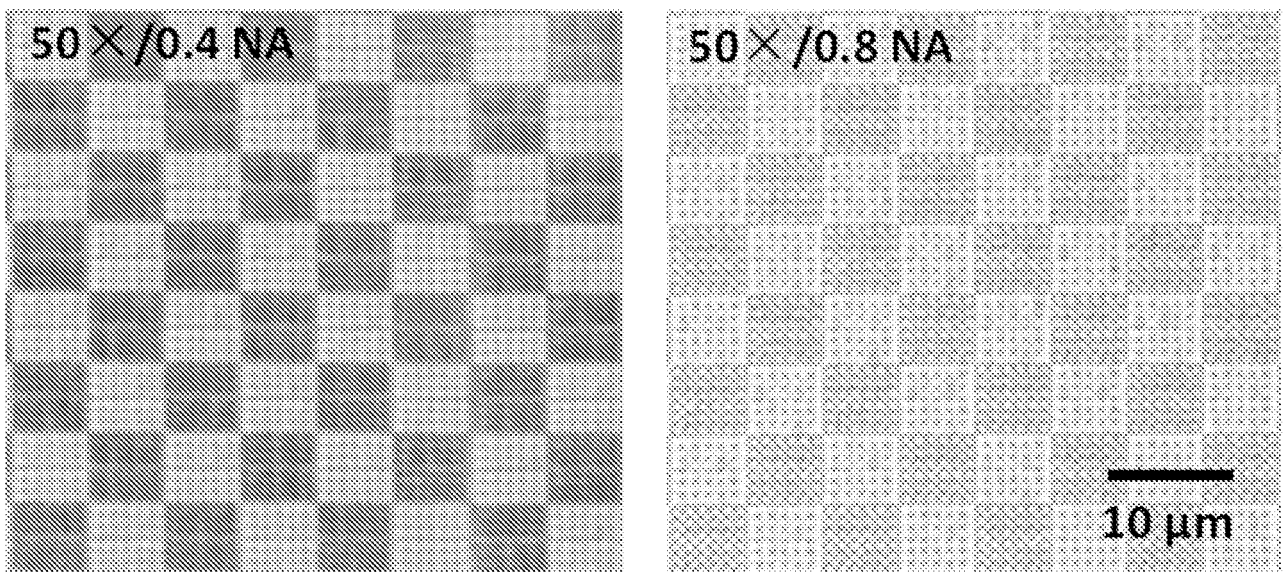


FIG. 14B

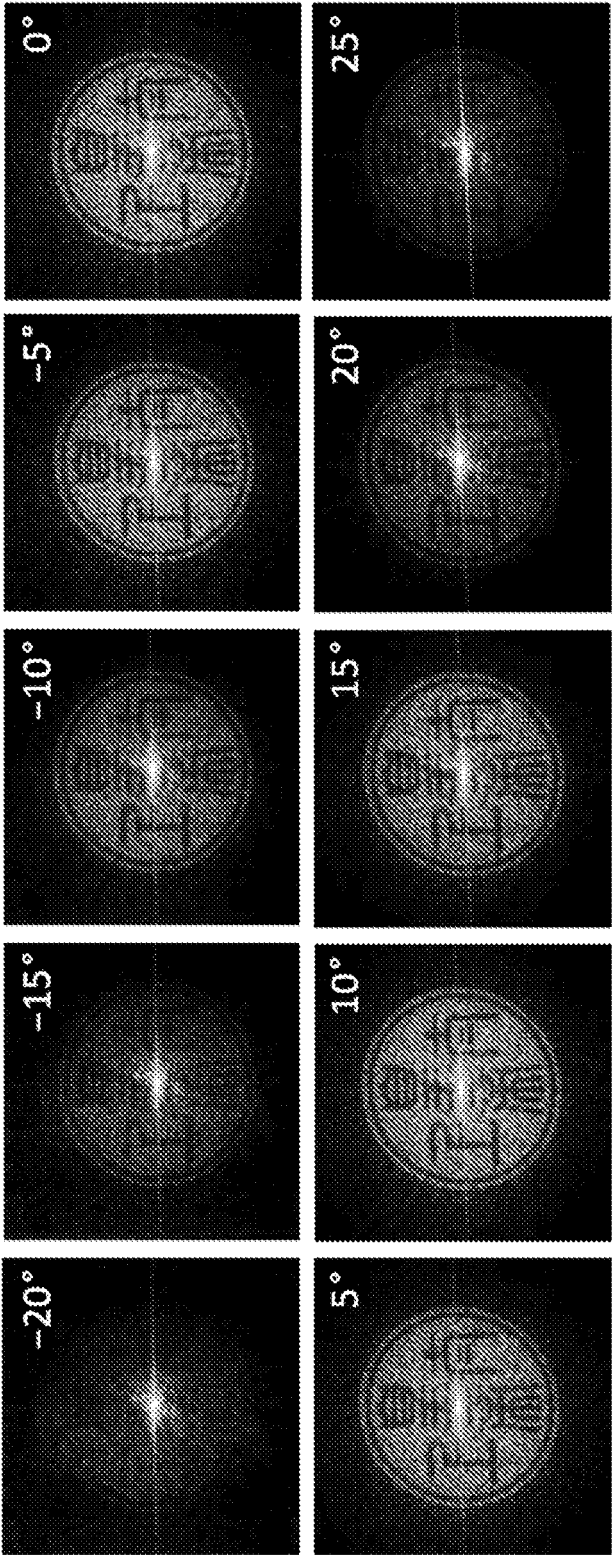


FIG. 15

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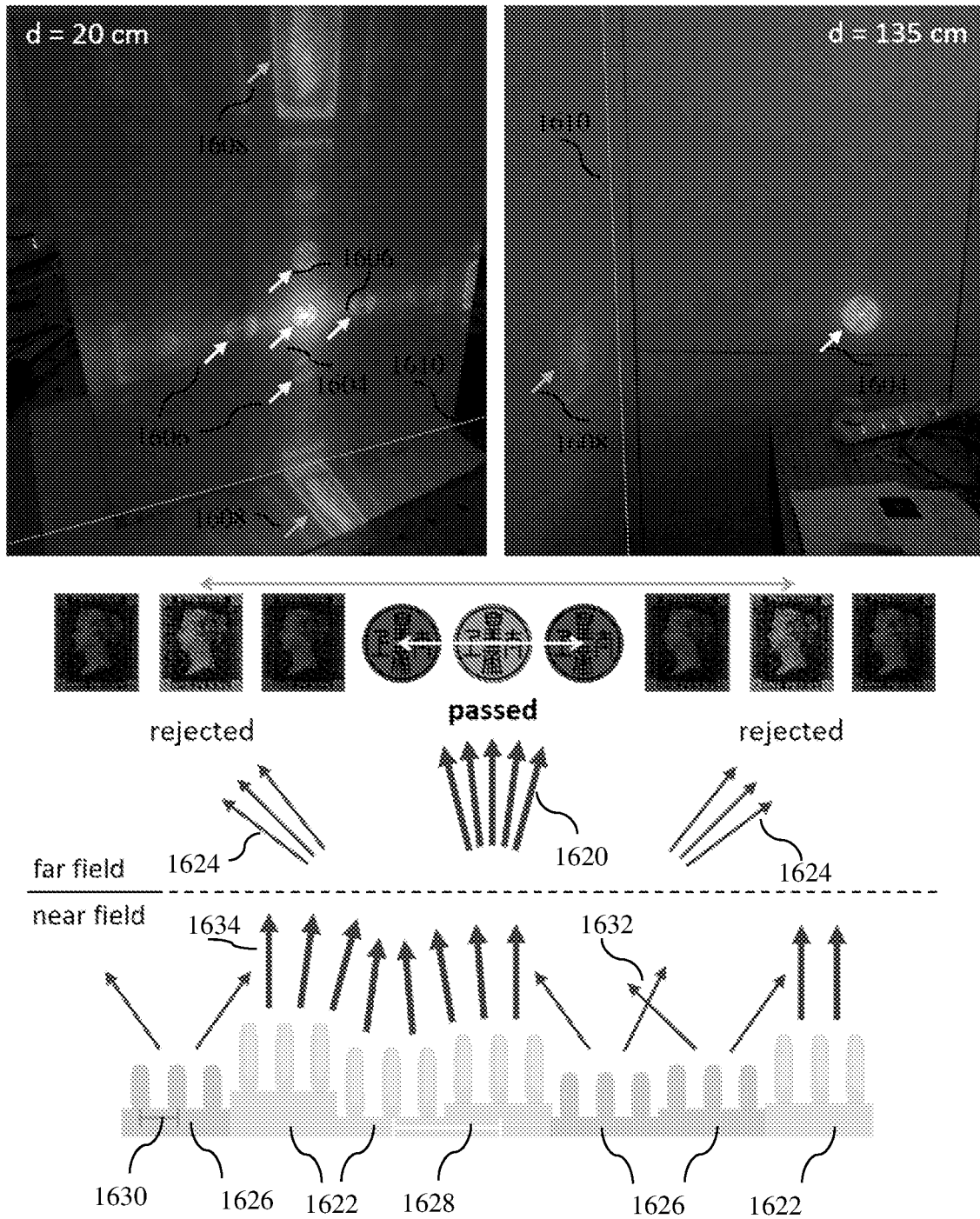


FIG. 16

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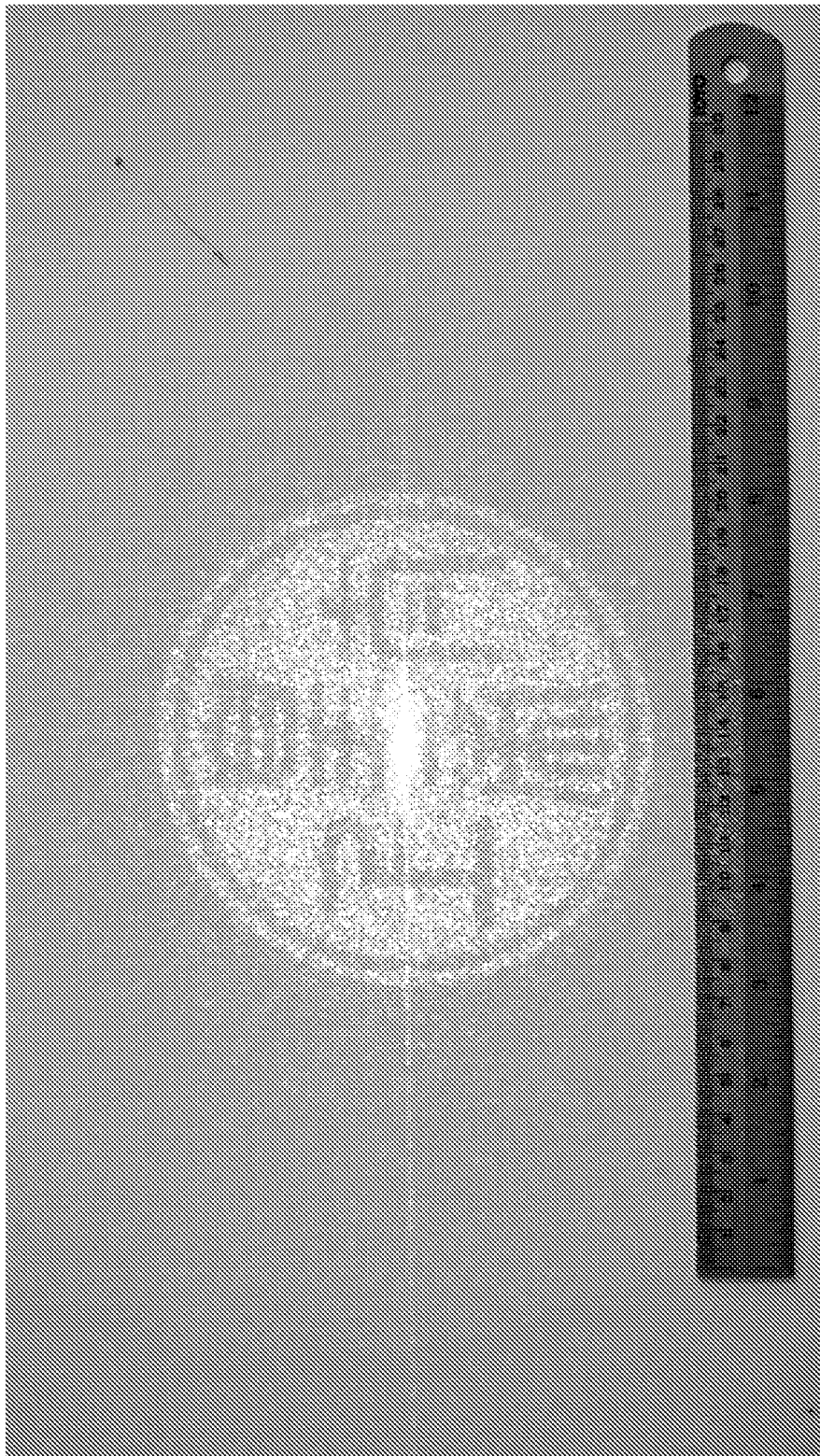


FIG. 17

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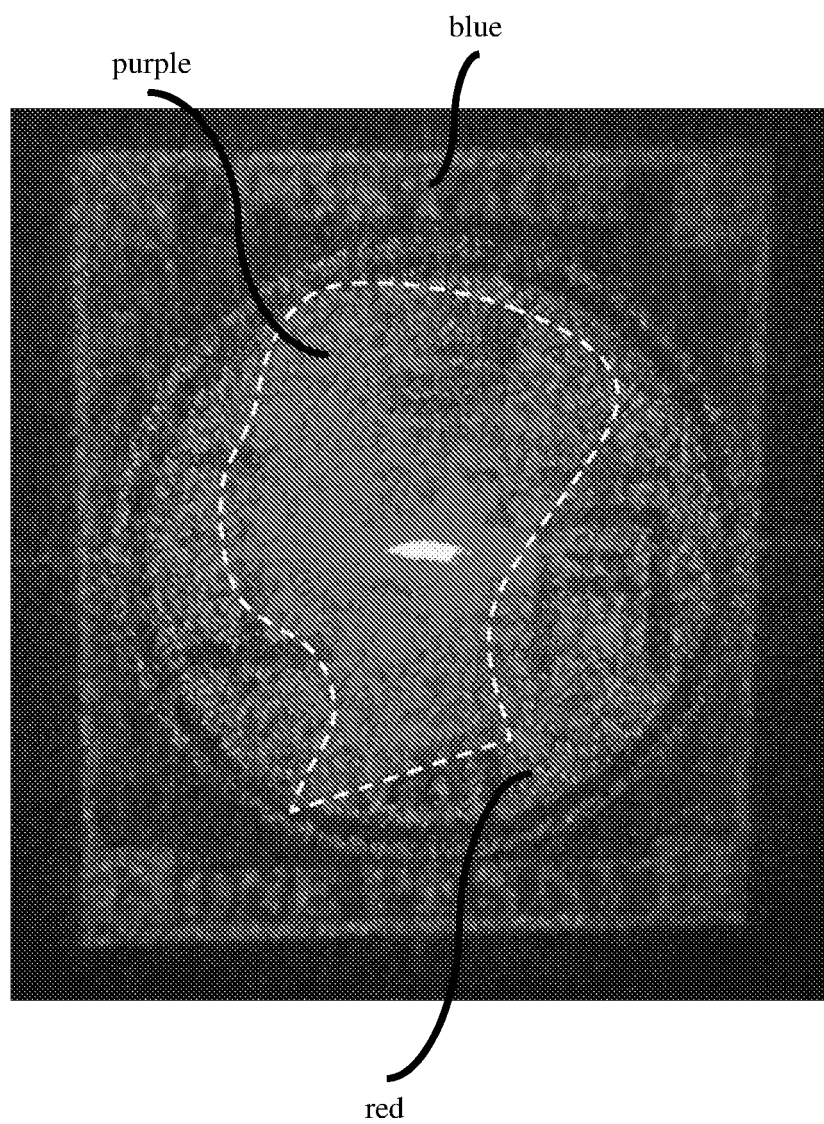


FIG. 18

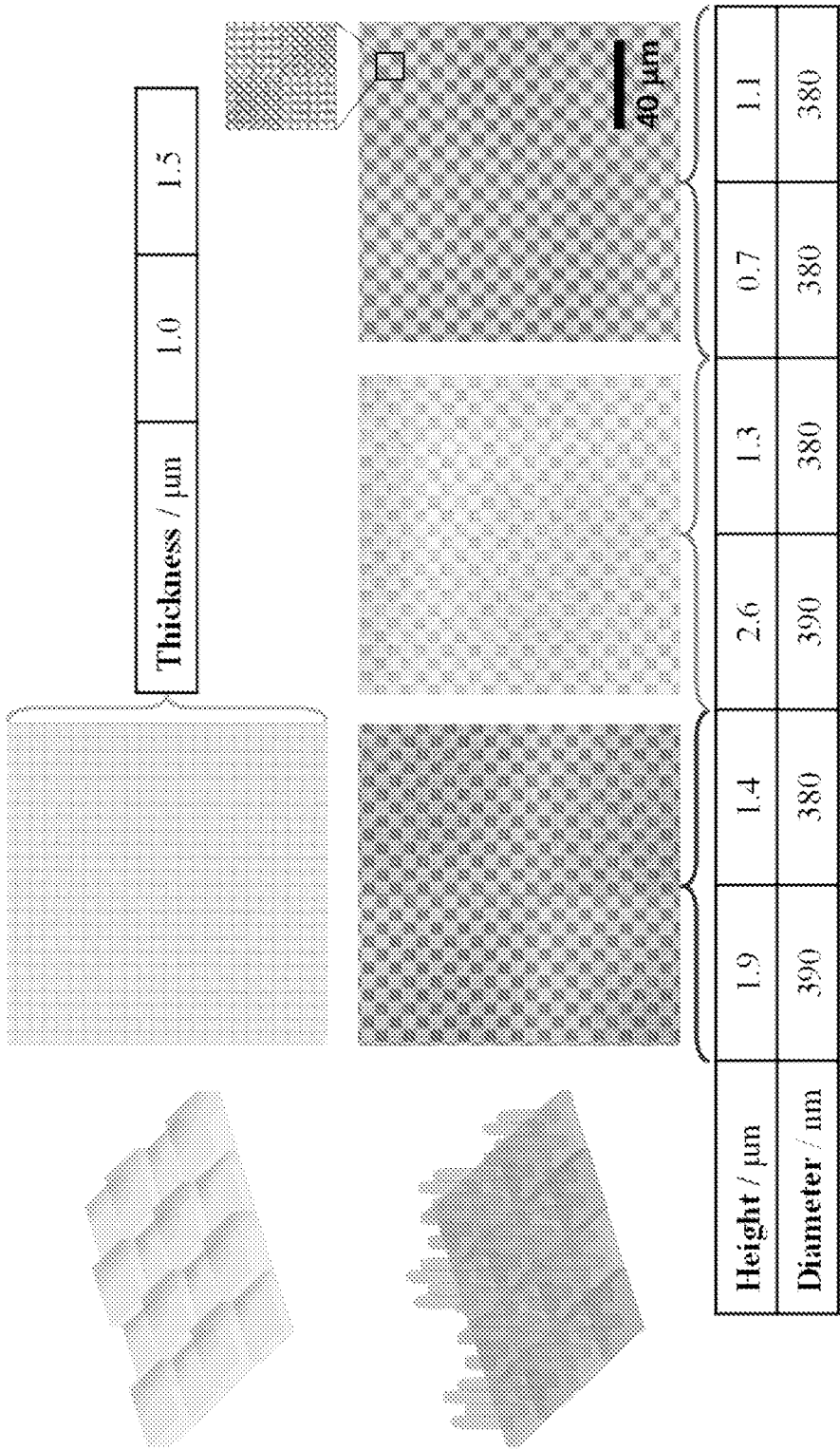


FIG. 19

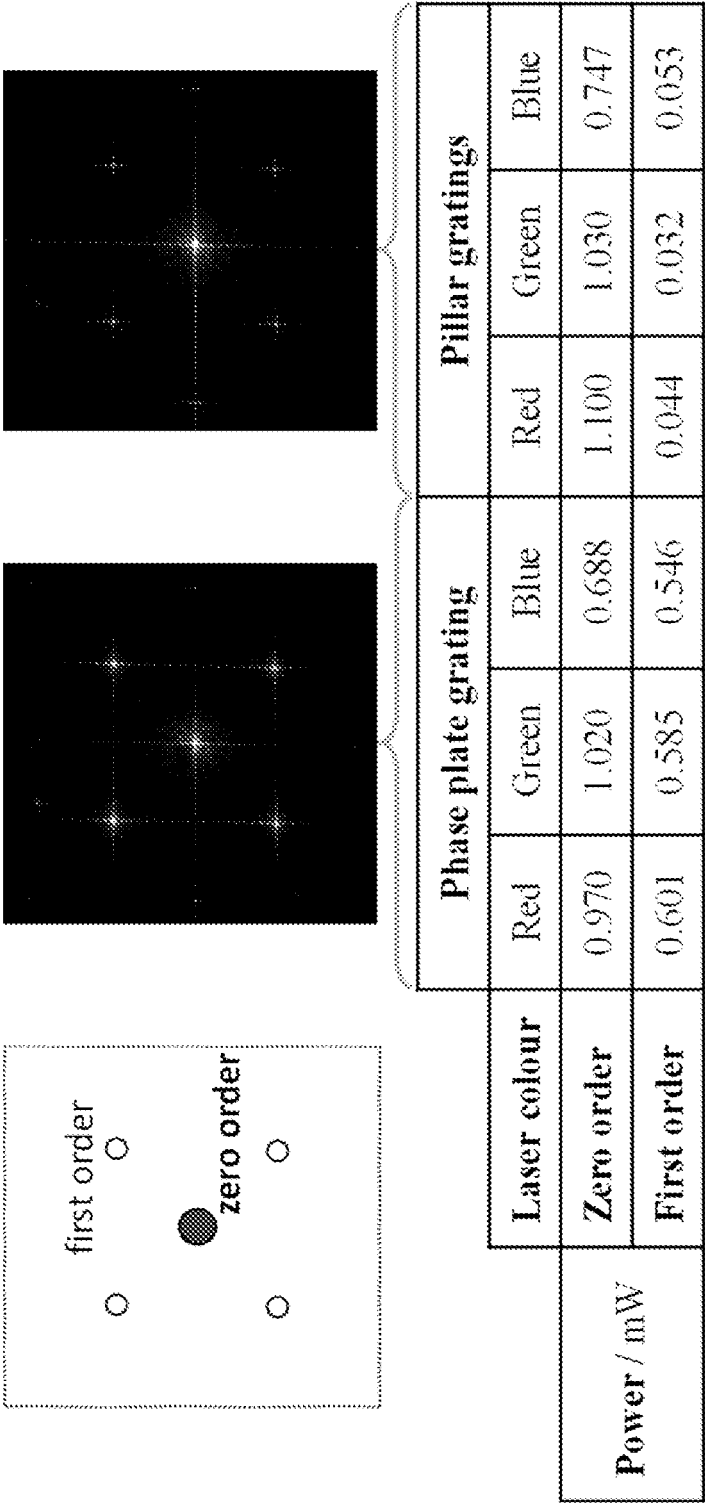


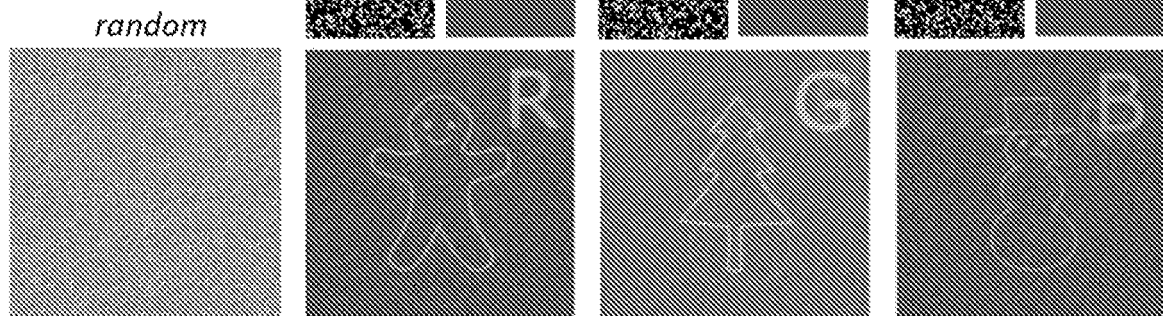
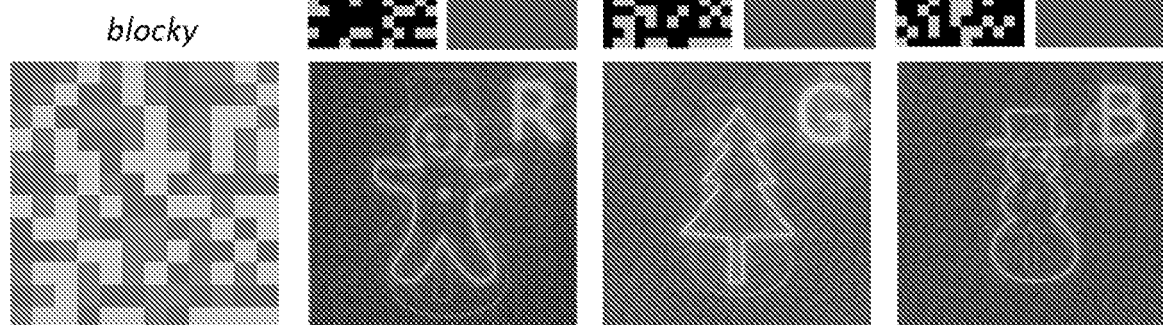
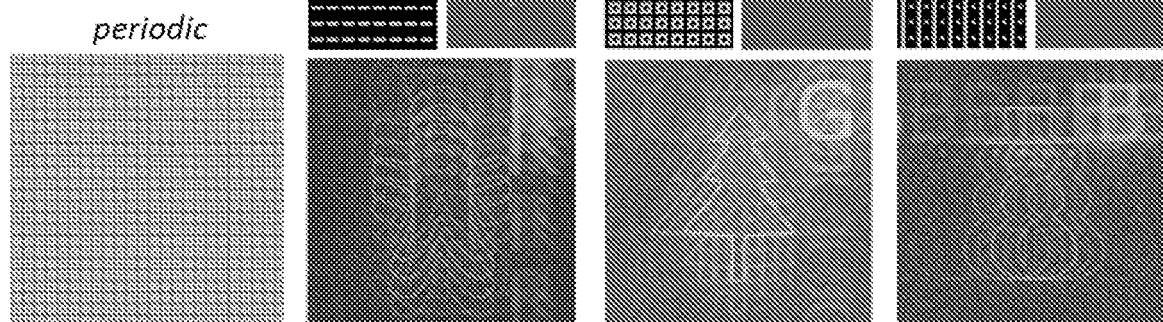
FIG. 20

2100



<i>(power in units of mW)</i>	Blue laser (449 nm)	Red laser (638 nm)
Incident power	1.80	2.10
Transmitted power	1.68	1.90
Power in central projection	0.53	0.64
Power in zero-order spot	0.15	0.34
Glass transmission efficiency	$1.68 \div 1.80 \times 100\% = 93\%$	$1.90 \div 2.10 \times 100\% = 90\%$
Filter transmission efficiency	$0.53 \div 1.68 \times 100\% = 32\%$	$0.64 \div 1.90 \times 100\% = 34\%$
Hologram diffraction efficiency	$(0.53 - 0.15) \div 0.53 \times 100\% = 72\%$	$(0.64 - 0.34) \div 0.64 \times 100\% = 47\%$
Overall efficiency of print	$(0.53 - 0.15) \div 1.80 \times 100\% = 21\%$	$(0.64 - 0.34) \div 2.10 \times 100\% = 14\%$

FIG. 21

FIG. 22A**FIG. 22B****FIG. 22C**

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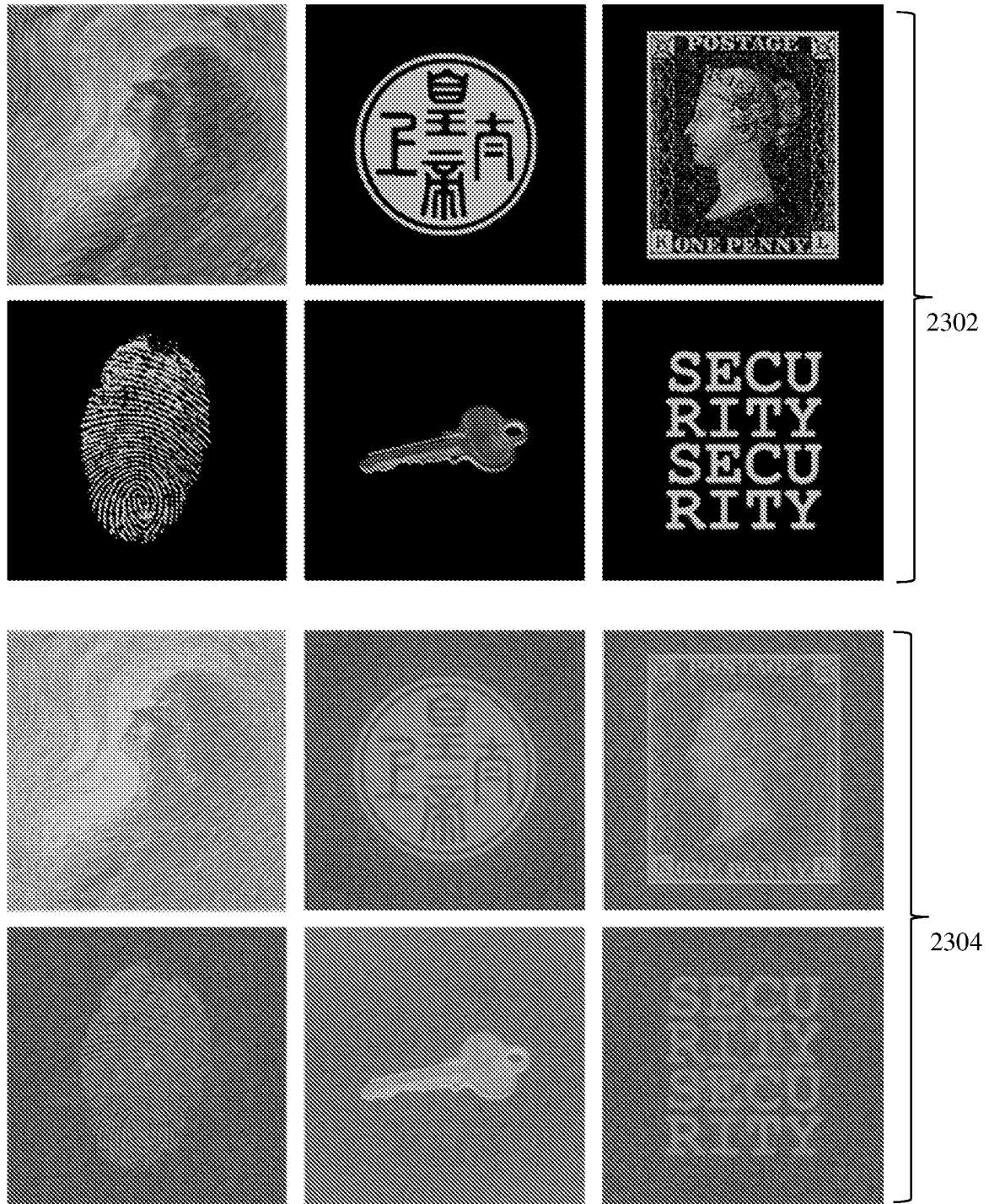


FIG. 23