

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl. ⁷
H04N 5/225

$$\begin{pmatrix} 11 \\ 43 \end{pmatrix}$$

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- 가

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AP ARIPO : 가

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(30)	09/301,753	1999 04 29	(US)
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2200

(72)	가	637665	가	#11 - 01	98
		85283		.	7292
		85226		.	4854

(74)

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(54)

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1

, , , 3

(electronic camera) ,
(capturing) .

(digital camera) .
(electronic form) 3 (chemical fil
m camera) .
(image stitching technique)
(optical character recognition engine, OCR)
(text string)
(paper document)
3
" (scan)"
가

, 3

(image data tile)

1

2

3

4

가

(distant object)

(packing container)

3

(black board)

(p

(white board)

lain text file)

/

가

(rastergraphics

data)

(text linking technique)

(degrees of freedom)

[(letter) (word)]

(compute - intensive)

1

(100)

(100)

(focal

plane)

(108)

(104)

(104)

가

가

(field of view)/

(depth of field)

3

(distance shots)

(close - up)

가

(104)

(108)

/

3

2

가

(104)

/

(108) (charge coupled device, CCD) (complimentary metal oxide semiconductor, CMOS) (104) (112) (raw image data) (imager sensor array) (full spatial resolution) 가 (102) (scale) (overlapping tile) 가 (102)

(PC) (116) (100) (120) PC PC (still image) (motion video) (render) 가 (120) PC

(124) (104) (128) (124) (OCR) (124) (128)가 , " (lin ked text file)"

(128) (paste). 가 가 (alignmen t) (102) (100) (116) ,

2 , 3 first_scan_tex 1 first_scan_img 204 OCR 1 (phrase), (letter), (character) , OCR 가 (high confidence regions)" (level of confi dence) OCR (confidence index value) OCR (corner) 가 (edge) OCR 208

208 , doc_tex 1 . doc_tex 2
 . , ,
 . prev_sacn_tex 208 first_scan
 _tex . 212 . ,
 curr_scan_text 216 OCR , 220 (feature) str_ftr
 . prev_scan_tex curr_scan_tex 가 , str_
 ftr . prev_scan_tex (available)
 , str_ftr , 가 , 가 " the" , " o
 f" , " an" , " and" " (stop - words)" , str_ftr
 . str_ftr , 224 .

224 , str_ftr curr_scan_tex prev_scan_tex . str_ftr
 , curr_scan_tex prev_scan_tex 228 doc_tex . 3
 . " cameras" (curr_scan_tex 2 (row) 3 (co
 lumn))가 str_ftr , prev_scan_tex " cameras" 3 17
 . (validity) " suc" , " ts. The" , " elec"
 (3 - 2 , 17 - 3) = (1 , 14)
 curr_scan_tex prev_scan_tex .

prev_scan(i + 1, j + 14) = curr_scan(i,j) (i,j)

3 doc_tex 212 .
 가 , (128) 232 ASCII
 doc_tex . (100)가 ,

가 4 .
 . 가 ,
 (spelling checker)
 , OCR (warning
 beep) - . 가
 , .
 . , 2 4 .

가 404 . 가
 , 가 (region) 4
 08 . new_scan_img
 OCR 412 . OCR , new_scan_img
 new_scan_text . new_scan_text , 416 str_ftr n
 ew_scan_text 가 , str_ftr 가 OCR

(as) 가 . , 420 , 가
 doc_tex . str_ftr doc_tex new_s
 can_tex , 424 , doc_tex
 (recovered) new_scan_tex 가 new_sca
 n_tex . 404
 .
 doc_tex가 가 가 ,
 . (104) 가 가
 ,
 가 ,
 ,
 ,
 (116)(1)
 .
 , 1 , (116)
 (graphical figure) . OCR
 ,
 (128) ()
 (option) ,
 .
 ,
 ,
 가 .

(57)

1.

(light image) ,
 (image data tiles)
 (camera imager),
 (text)
 (text data tiles) ,

2.

1 ,

(depth of field) 가 .

3.

1 ,

.

4.

1 ,

(spatial resolutions) .

5.

3 ,

1 (string)

.

6.

1 ,

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7.

1 ,

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8.

1 ,

, 가

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9.

8 ,

(specification) .

10.

3 ,

(stitch)

(graphics figure)

가 ,

11.

,
 ,
 ,
 가

12.

3 ,

13.

12 ,

가 .

14.

13 ,

15.

13 ,

가

16.

12 ,

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17.

12 ,

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2

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2

2

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2

가 .

18.

17 ,

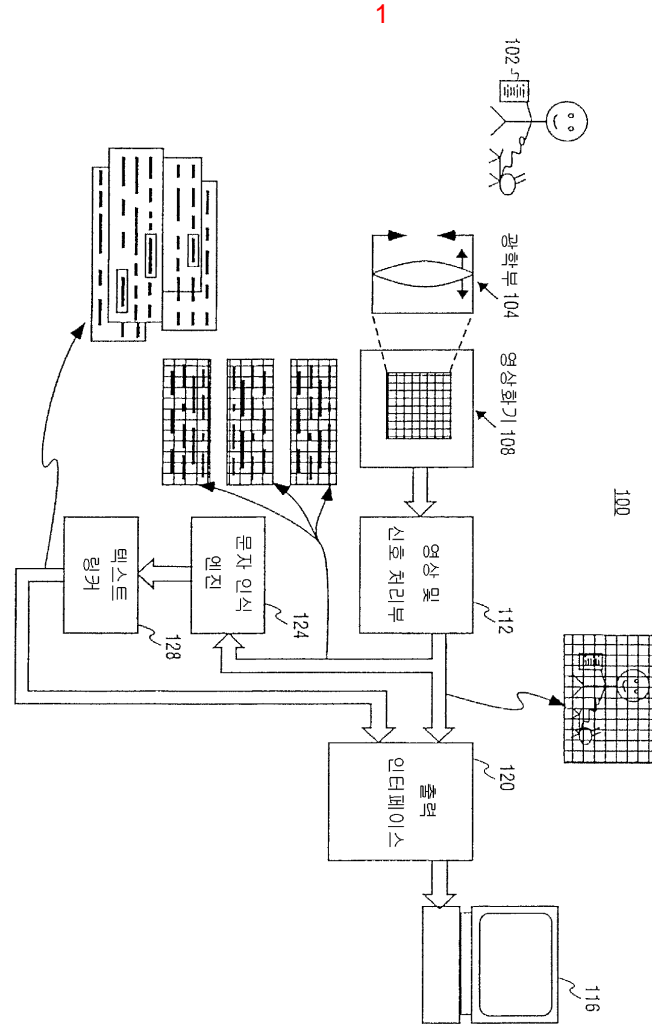
2

가 .

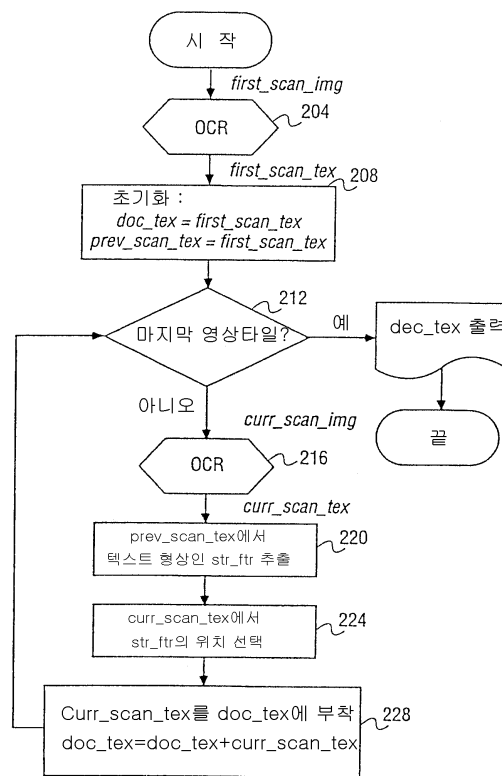
19.

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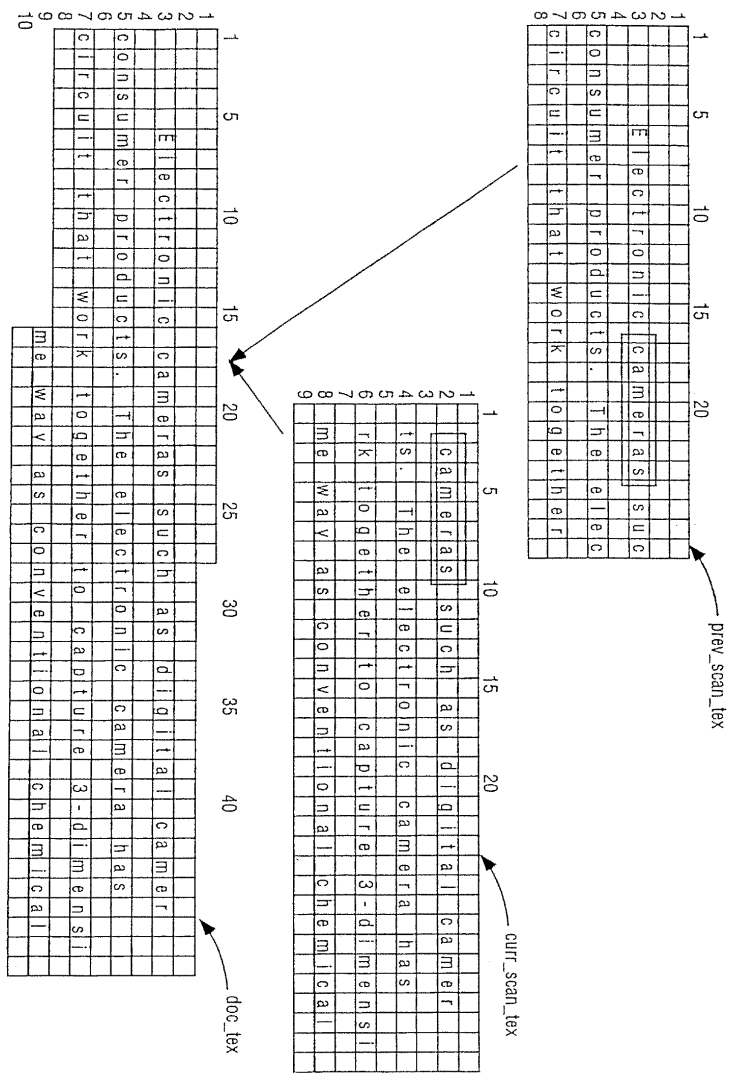
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2



3



4

