FIG. 1

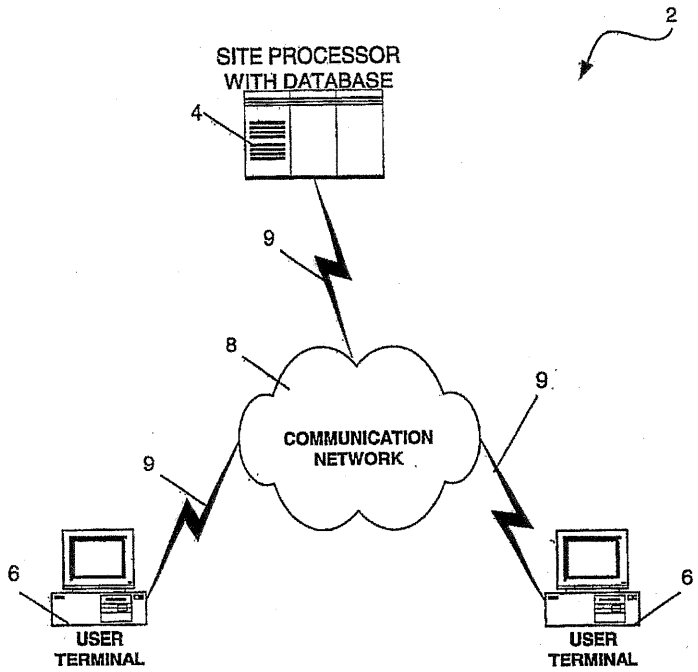

2
SITE PROCESSOR
WITH DATABASE
4
9
8
COMMUNICATION
NETWORK
9
9
6
USER
TERMINAL
6
USER
TERMINAL

FIG. 2

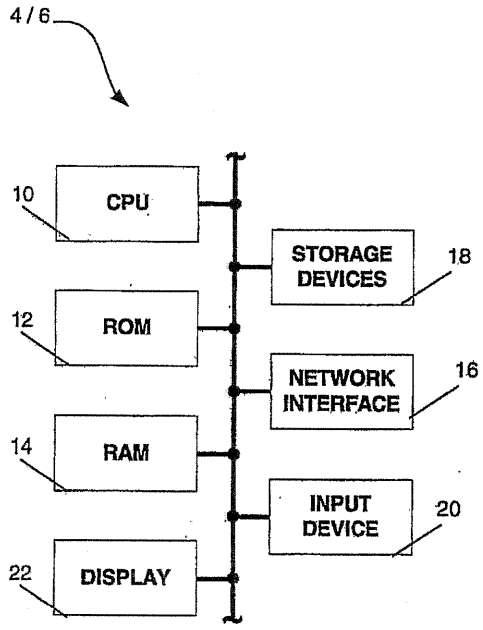

4 / 6
10
CPU
12
ROM
14
RAM
22
DISPLAY
STORAGE DEVICES
18
NETWORK INTERFACE
16
INPUT DEVICE
20

FIG. 3

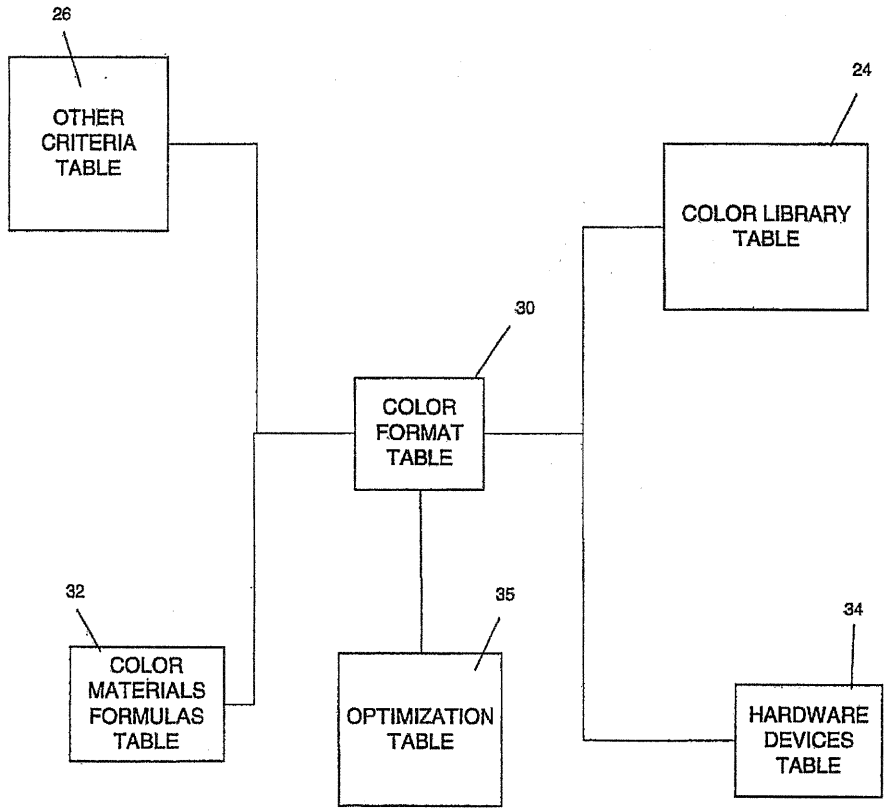
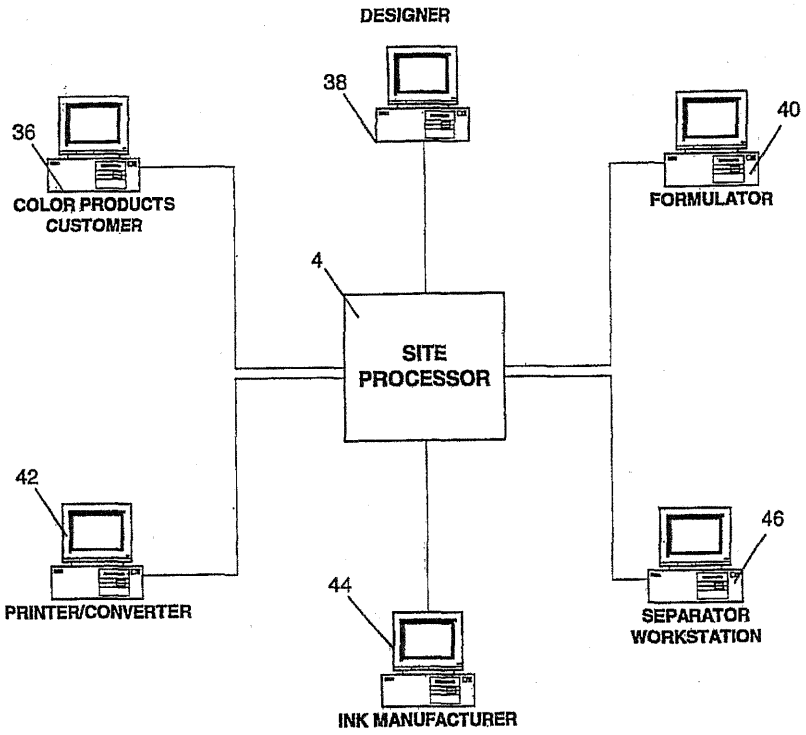

26
OTHER CRITERIA TABLE
24
COLOR LIBRARY TABLE
30
COLOR FORMAT TABLE
32
COLOR MATERIALS FORMULAS TABLE
35
OPTIMIZATION TABLE
34
HARDWARE DEVICES TABLE

FIG. 4


DESIGNER
38
36
COLOR PRODUCTS CUSTOMER
40
FORMULATOR
4
SITE PROCESSOR
42
PRINTER/CONVERTER
46
SEPARATOR WORKSTATION
44
INK MANUFACTURER

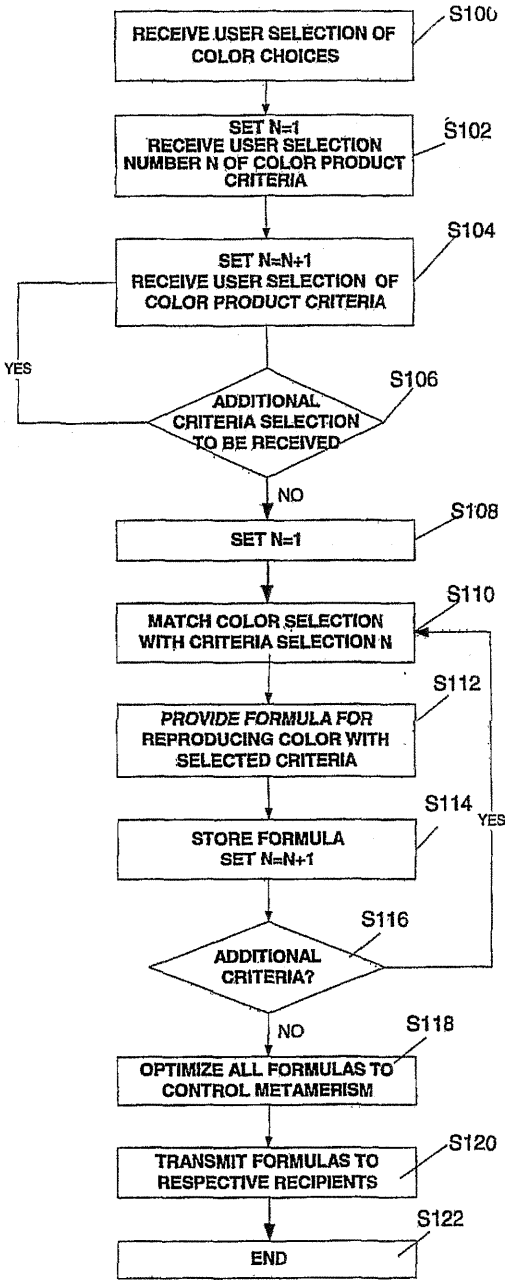

RECEIVE USER SELECTION OF COLOR CHOICES
S100
SET N=1
RECEIVE USER SELECTION NUMBER N OF COLOR PRODUCT CRITERIA
S102
SET N=N+1
RECEIVE USER SELECTION OF COLOR PRODUCT CRITERIA
S104
YES
ADDITIONAL CRITERIA SELECTION TO BE RECEIVED
S106
NO
SET N=1
S108
MATCH COLOR SELECTION WITH CRITERIA SELECTION N
S110
PROVIDE FORMULA FOR REPRODUCING COLOR WITH SELECTED CRITERIA
S112
STORE FORMULA
SET N=N+1
S114
YES
ADDITIONAL CRITERIA?
S116
NO
OPTIMIZE ALL FORMULAS TO CONTROL METAMERISM
S118
TRANSMIT FORMULAS TO RESPECTIVE RECIPIENTS
S120
END
S122

Fig. 5

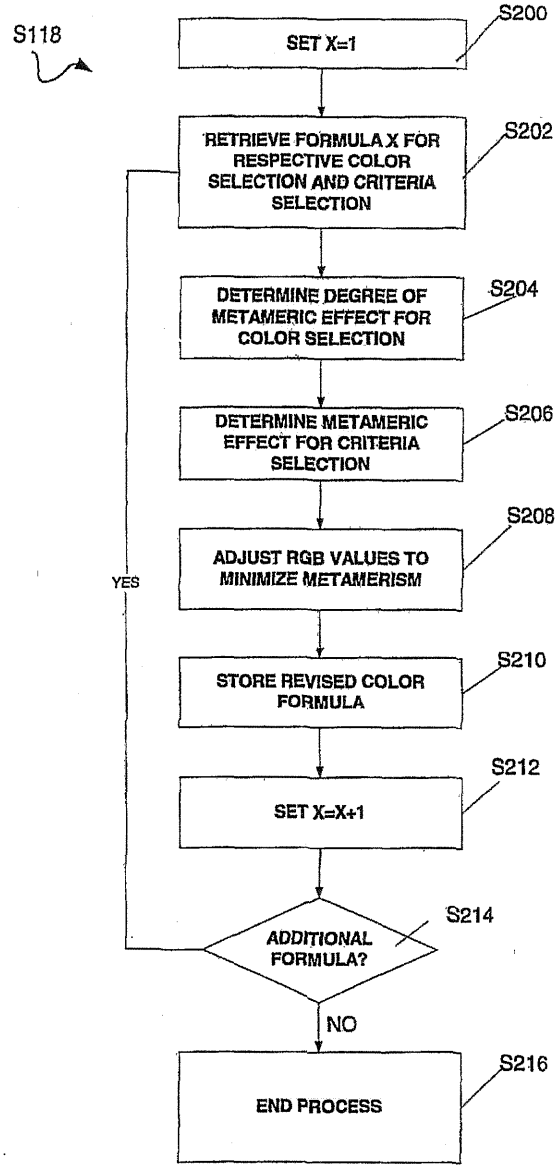
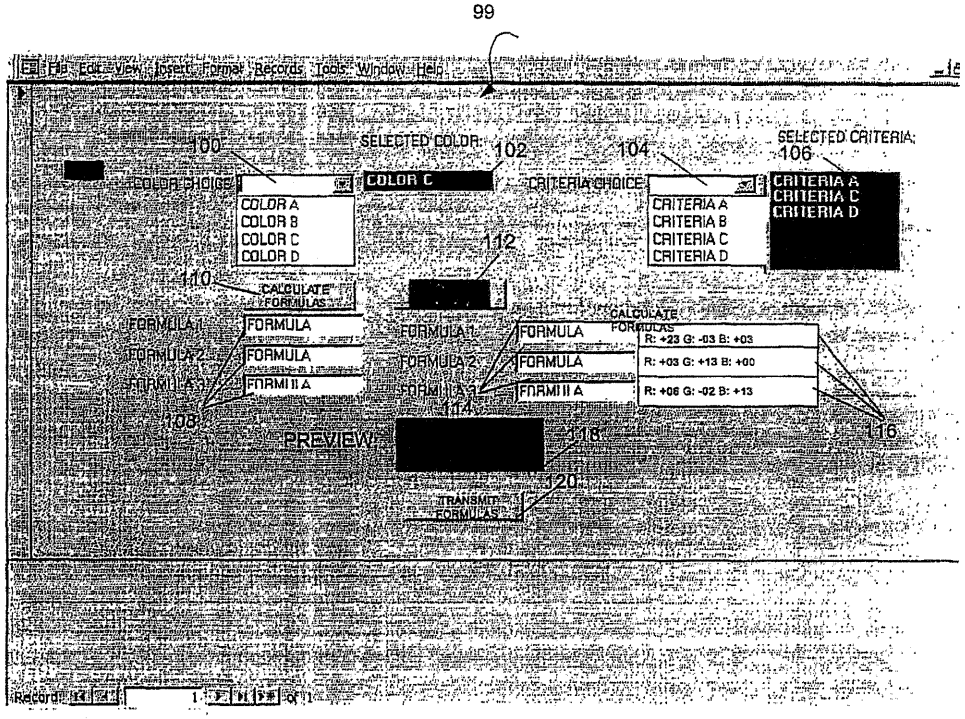

S118
SET X=1
S200
RETRIEVE FORMULA X FOR RESPECTIVE COLOR SELECTION AND CRITERIA SELECTION
S202
DETERMINE DEGREE OF METAMERIC EFFECT FOR COLOR SELECTION
S204
DETERMINE METAMERIC EFFECT FOR CRITERIA SELECTION
S206
ADJUST RGB VALUES TO MINIMIZE METAMERISM
S208
STORE REVISED COLOR FORMULA
S210
SET X=X+1
S212
ADDITIONAL FORMULA?
S214
YES
NO
END PROCESS
S216

Fig. 6


99
File Edit View Insert Format Records Tools Window Help
100
SELECTED COLOR:
102
104
SELECTED CRITERIA:
106
COLOR CHOICE:
COLOR C
CRITERIA CHOICE:
CRITERIA A
CRITERIA C
CRITERIA D
COLOR A
COLOR B
COLOR C
COLOR D
CRITERIA A
CRITERIA B
CRITERIA C
CRITERIA D
112
110
CALCULATE FORMULAS
FORMULA 1
FORMULA 2
FORMULA 3
FORMULA
FORMULA
FORMULA
FORMULA 1
FORMULA 2
FORMULA 3
FORMULA
FORMULA
FORMULA
CALCULATE FORMULAS
R: +23 G: -03 B: +03
R: +03 G: +13 B: +00
R: +06 G: -02 B: +13
108
114
PREVIEW
116
118
120
TRANSMIT FORMULAS
Record