193193

G00002

FIG.1

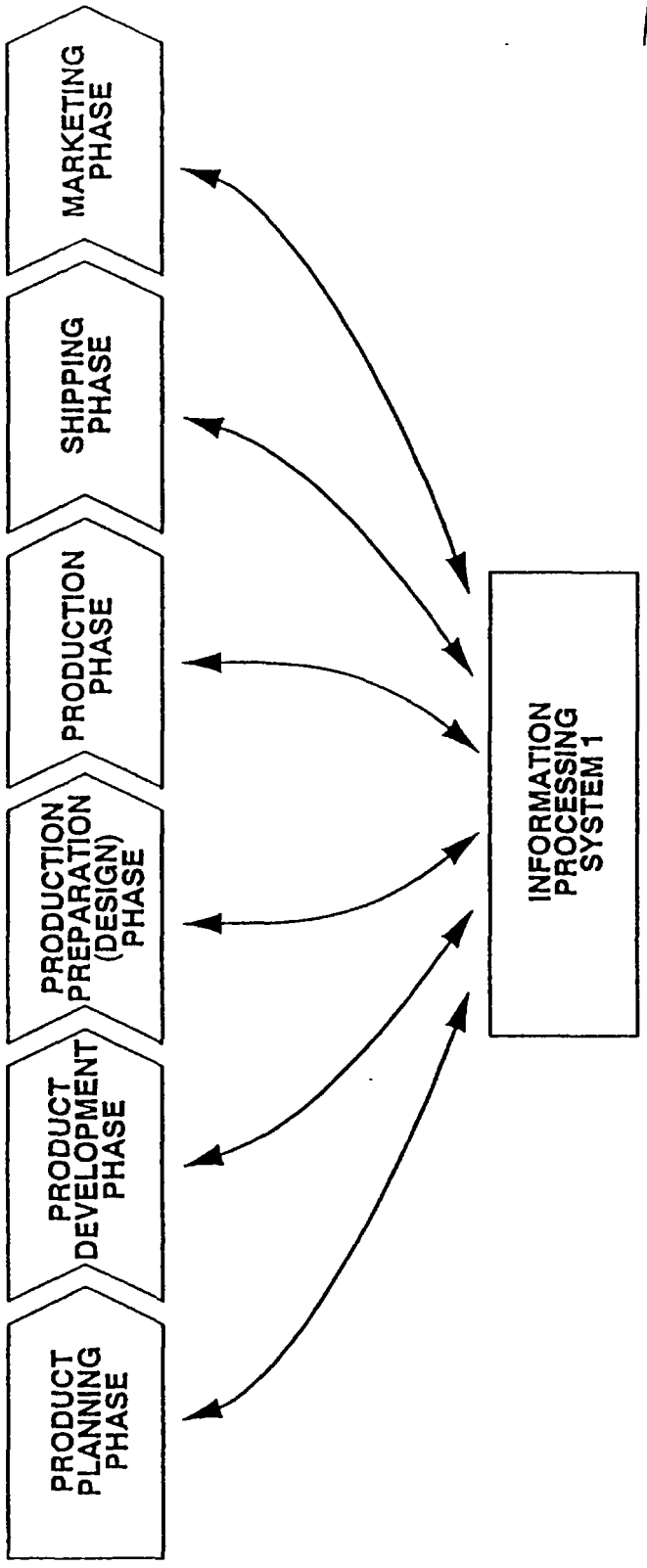


FIG.2

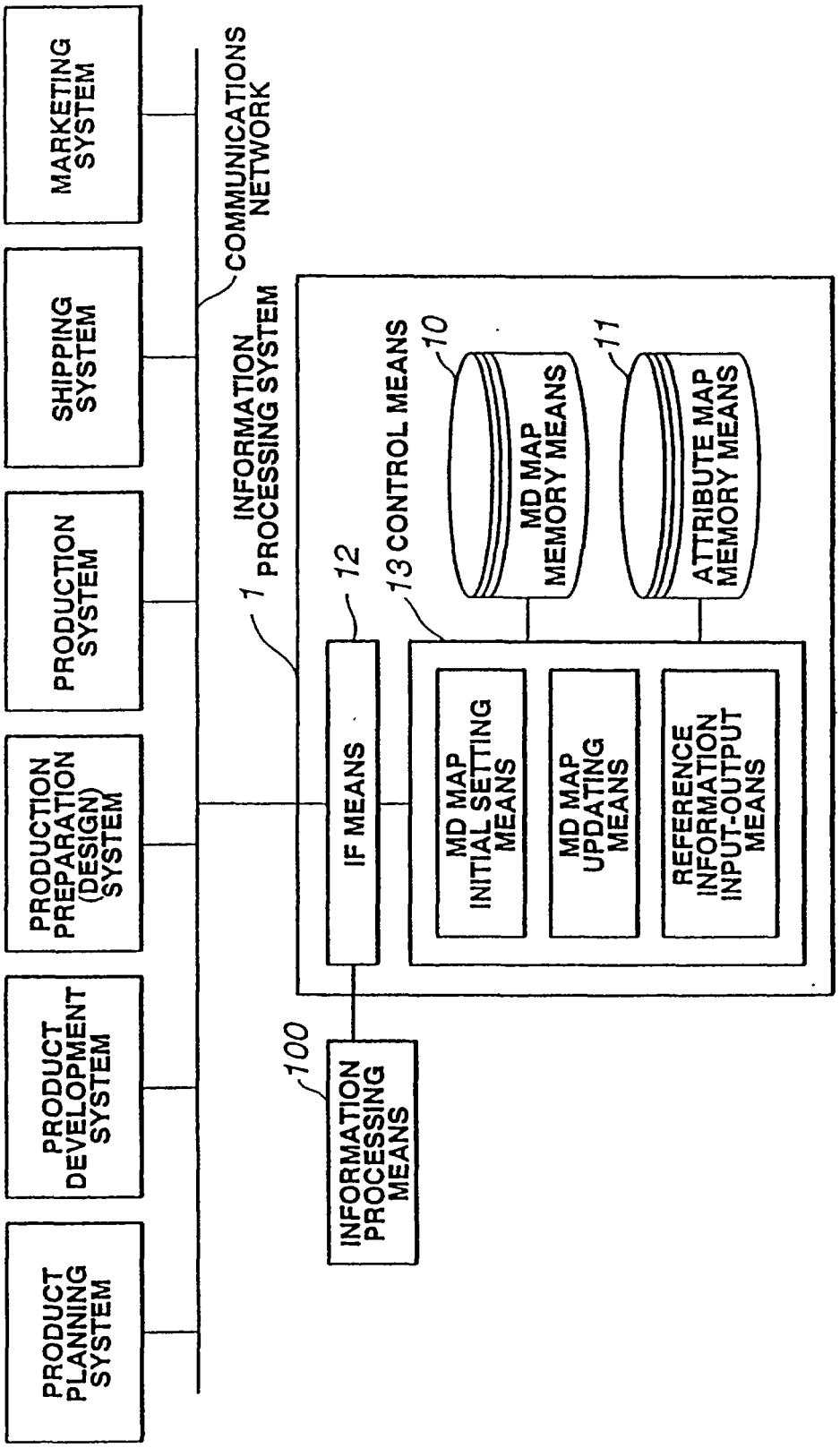

MARKETING SYSTEM
SHIPPING SYSTEM
PRODUCTION SYSTEM
PRODUCTION PREPARATION (DESIGN) SYSTEM
PRODUCT DEVELOPMENT SYSTEM
PRODUCT PLANNING SYSTEM
COMMUNICATIONS NETWORK
1 INFORMATION PROCESSING SYSTEM
12
IF MEANS
13 CONTROL MEANS
MD MAP INITIAL SETTING MEANS
MD MAP UPDATING MEANS
REFERENCE INFORMATION INPUT-OUTPUT MEANS
10
MD MAP MEMORY MEANS
11
ATTRIBUTE MAP MEMORY MEANS
100
INFORMATION PROCESSING MEANS

FIG.3A

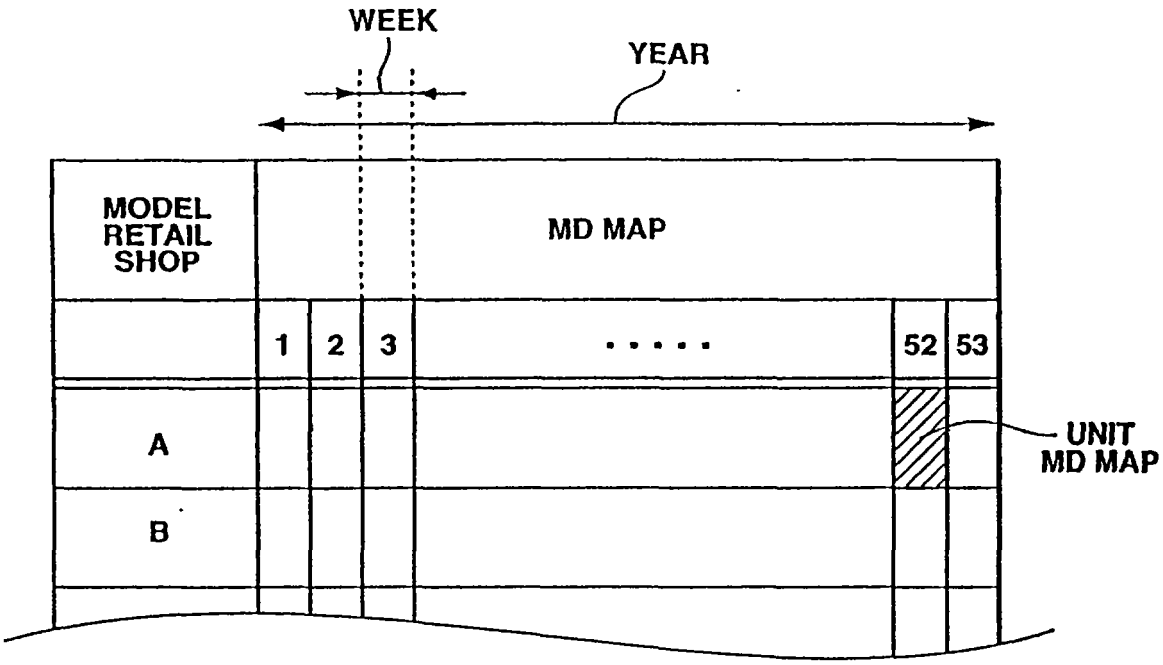

WEEK
YEAR
MODEL
RETAIL
SHOP
MD MAP
1
2
3
52
53
A
B
UNIT
MD MAP

FIG.3B

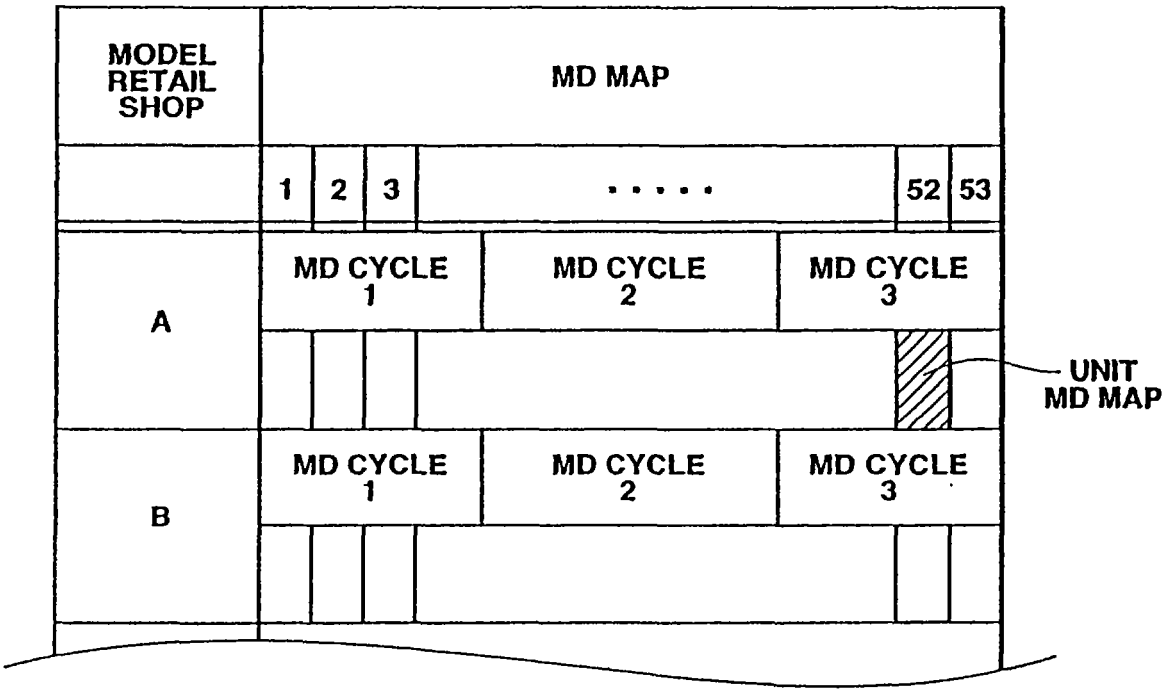

MODEL
RETAIL
SHOP
MD MAP
1
2
3
52
53
A
MD CYCLE
1
MD CYCLE
2
MD CYCLE
3
UNIT
MD MAP
B
MD CYCLE
1
MD CYCLE
2
MD CYCLE
3

FIG.4A

MERCHANDISE DISPOSITION SPACE	MERCHANDISE QUANTITY	MERCHANDISE DATA
No.1 (SHOP FURNISHING UNITS 1 THROUGH 3)		
No.2 (SHOP FURNISHING UNITS 4 AND 5)		
No.3 (SHOP FURNISHING UNIT 6)		
No.4 (SHOP FURNISHING UNIT 7)		
No.5 (SHOP FURNISHING UNIT 8)		

FIG.4B

		THEME 1			
		MATERIAL A	MATERIAL B	MATERIAL C	.....
ITEM	(PO, 60)				
	(JK, 40)				
	⋮				

FIG.4C

		COLOR			
		23	43	62	.....
SIZE	07				
	08				
	⋮				

FIG.5A

MERCHANDISE DISPOSITION SPACE	MD CYCLE 1			MD CYCLE 2	MD CYCLE 3	
	1	2	3	·····	52	53
No.1 (SHOP FURNISHING UNITS 1 THROUGH 3)	THEME 1			THEME 2	THEME 3	
No.2 (SHOP FURNISHING UNITS 4 AND 5)	THEME 4			THEME 5		THEME 6
No.3 (SHOP FURNISHING UNIT 6)	THEME 7			THEME 8		
No.4 (SHOP FURNISHING UNIT 7)	THEME 9					
No.5 (SHOP FURNISHING UNIT 8)	THEME 10			THEME 11		THEME 12

FIG.5B

MERCHANDISE DISPOSITION SPACE	MD CYCLE 1			MD CYCLE 2	MD CYCLE 3	
	1	2	3	·····	52	53
No.1 (SHOP FURNISHING UNITS 1 THROUGH 3)	THEME 1			THEME 2	THEME 3	
	MATERIAL A / MATERIAL B / MATERIAL C			MATERIAL D / MATERIAL C / MATERIAL E	MATERIAL F / MATERIAL A / MATERIAL G	
No.2 (SHOP FURNISHING UNITS 4 AND 5)	THEME 4			THEME 5		THEME 3
	MATERIAL A / MATERIAL H / MATERIAL F			MATERIAL E / MATERIAL I / MATERIAL J		MATERIAL G / MATERIAL K

FIG.6

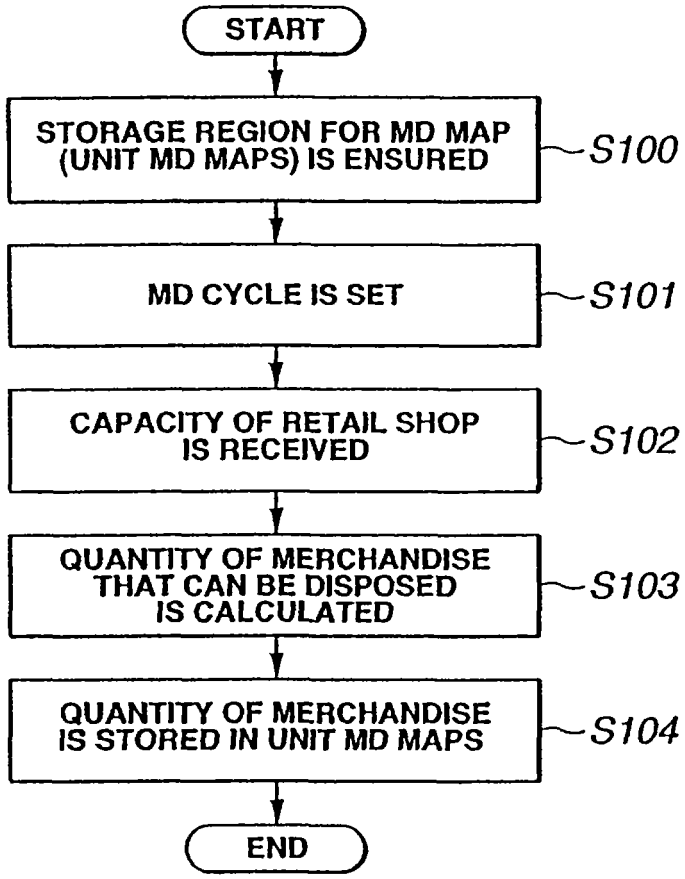

START
STORAGE REGION FOR MD MAP (UNIT MD MAPS) IS ENSURED
S100
MD CYCLE IS SET
S101
CAPACITY OF RETAIL SHOP IS RECEIVED
S102
QUANTITY OF MERCHANDISE THAT CAN BE DISPOSED IS CALCULATED
S103
QUANTITY OF MERCHANDISE IS STORED IN UNIT MD MAPS
S104
END

FIG.7A

SHOP FURNISHING UNIT NO.	SHOP FURNISHING UNIT SIZE (HORIZONTAL LENGTH)
1	3[m]
2	2[m]
3	2[m]
4	2[m]
5	1[m]
6	1[m]
7	1[m]
8	1[m]

FIG.7B

SHOP FURNISHING UNIT NO.	SHOP FURNISHING UNIT SIZE (HORIZONTAL LENGTH)	GROUP	MERCHANDISE DISPOSITION PITCH (HORIZONTAL PITCH)	MERCHANDISE QUANTITY
1	3[m]	NO.1	0.1[m]	70
2	2[m]			
3	2[m]			
4	2[m]	NO.2	0.08[m]	37
5	1[m]			
6	1[m]	NO.3	0.05[m]	20
7	1[m]	NO.4	0.06[m]	16
8	1[m]	NO.5	0.05[m]	20

FIG.8

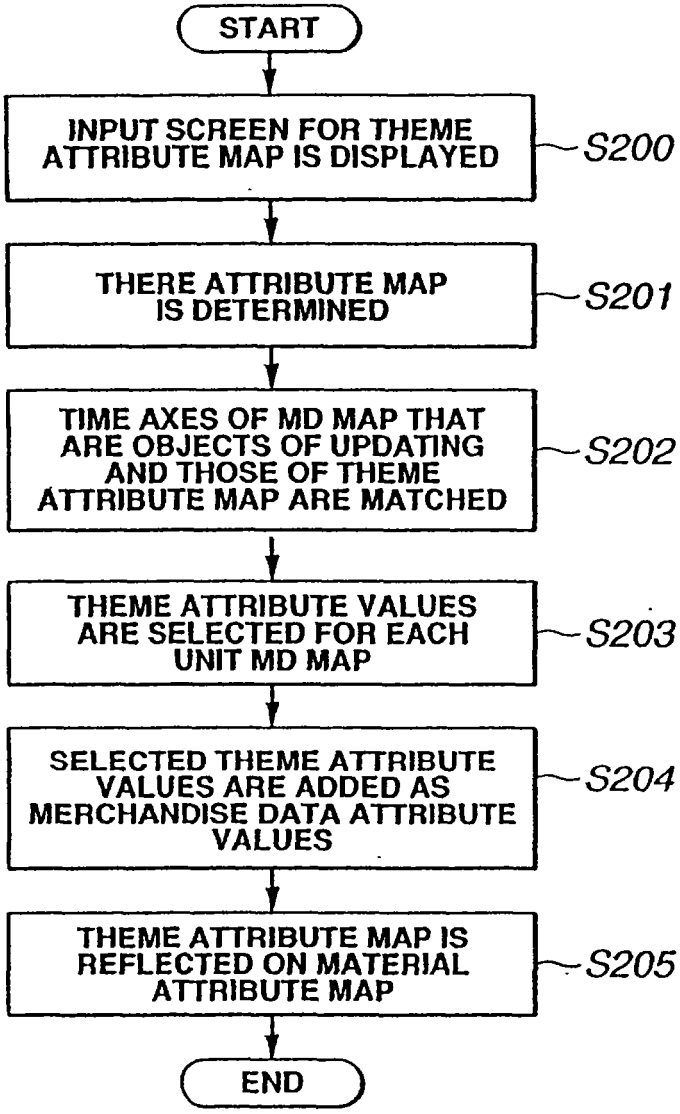

START
INPUT SCREEN FOR THEME ATTRIBUTE MAP IS DISPLAYED
S200
THERE ATTRIBUTE MAP IS DETERMINED
S201
TIME AXES OF MD MAP THAT ARE OBJECTS OF UPDATING AND THOSE OF THEME ATTRIBUTE MAP ARE MATCHED
S202
THEME ATTRIBUTE VALUES ARE SELECTED FOR EACH UNIT MD MAP
S203
SELECTED THEME ATTRIBUTE VALUES ARE ADDED AS MERCHANDISE DATA ATTRIBUTE VALUES
S204
THEME ATTRIBUTE MAP IS REFLECTED ON MATERIAL ATTRIBUTE MAP
S205
END

FIG.9

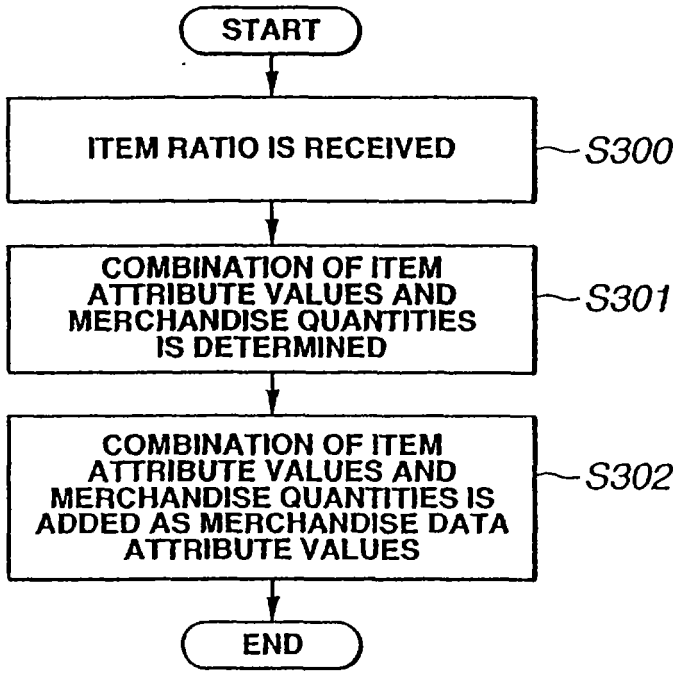

START
ITEM RATIO IS RECEIVED
S300
COMBINATION OF ITEM ATTRIBUTE VALUES AND MERCHANDISE QUANTITIES IS DETERMINED
S301
COMBINATION OF ITEM ATTRIBUTE VALUES AND MERCHANDISE QUANTITIES IS ADDED AS MERCHANDISE DATA ATTRIBUTE VALUES
S302
END

FIG.10

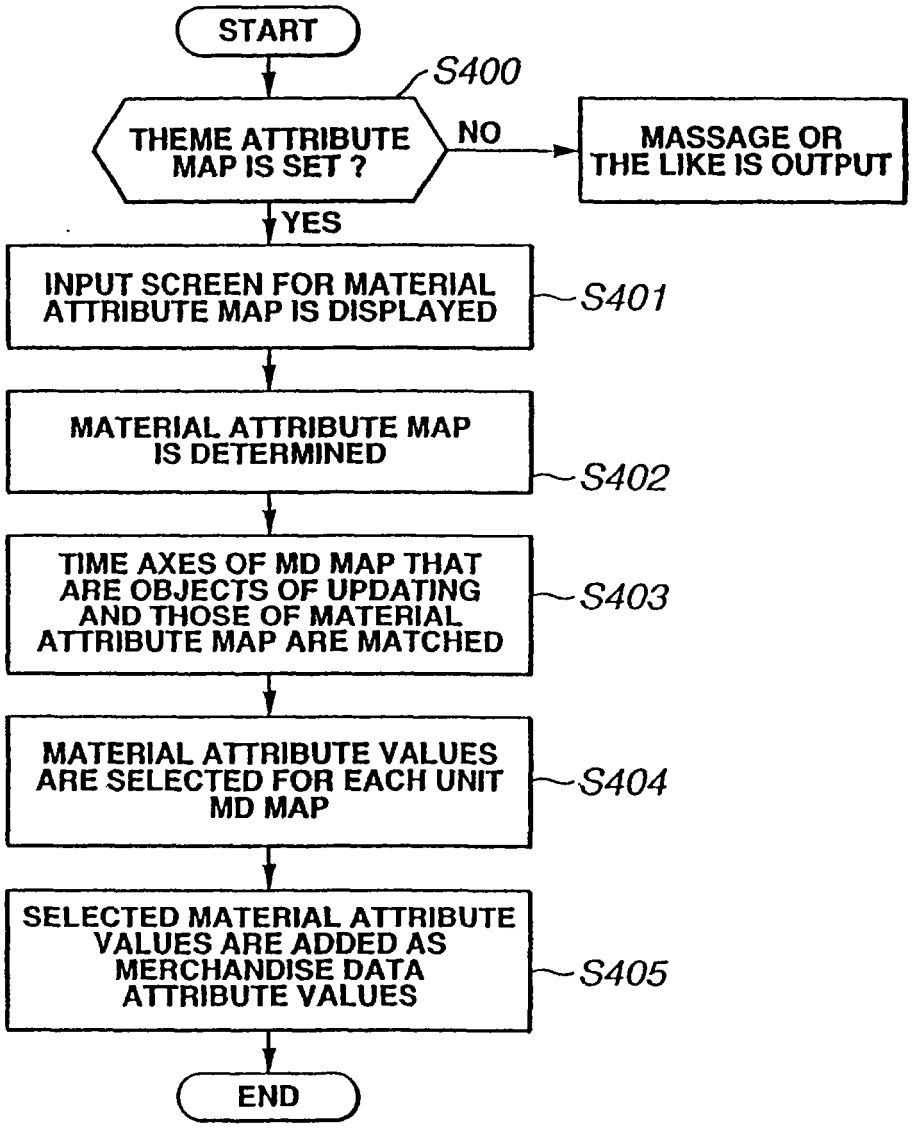

START
S400
THEME ATTRIBUTE MAP IS SET ?
NO
MASSAGE OR THE LIKE IS OUTPUT
YES
INPUT SCREEN FOR MATERIAL ATTRIBUTE MAP IS DISPLAYED
S401
MATERIAL ATTRIBUTE MAP IS DETERMINED
S402
TIME AXES OF MD MAP THAT ARE OBJECTS OF UPDATING AND THOSE OF MATERIAL ATTRIBUTE MAP ARE MATCHED
S403
MATERIAL ATTRIBUTE VALUES ARE SELECTED FOR EACH UNIT MD MAP
S404
SELECTED MATERIAL ATTRIBUTE VALUES ARE ADDED AS MERCHANDISE DATA ATTRIBUTE VALUES
S405
END

FIG.11

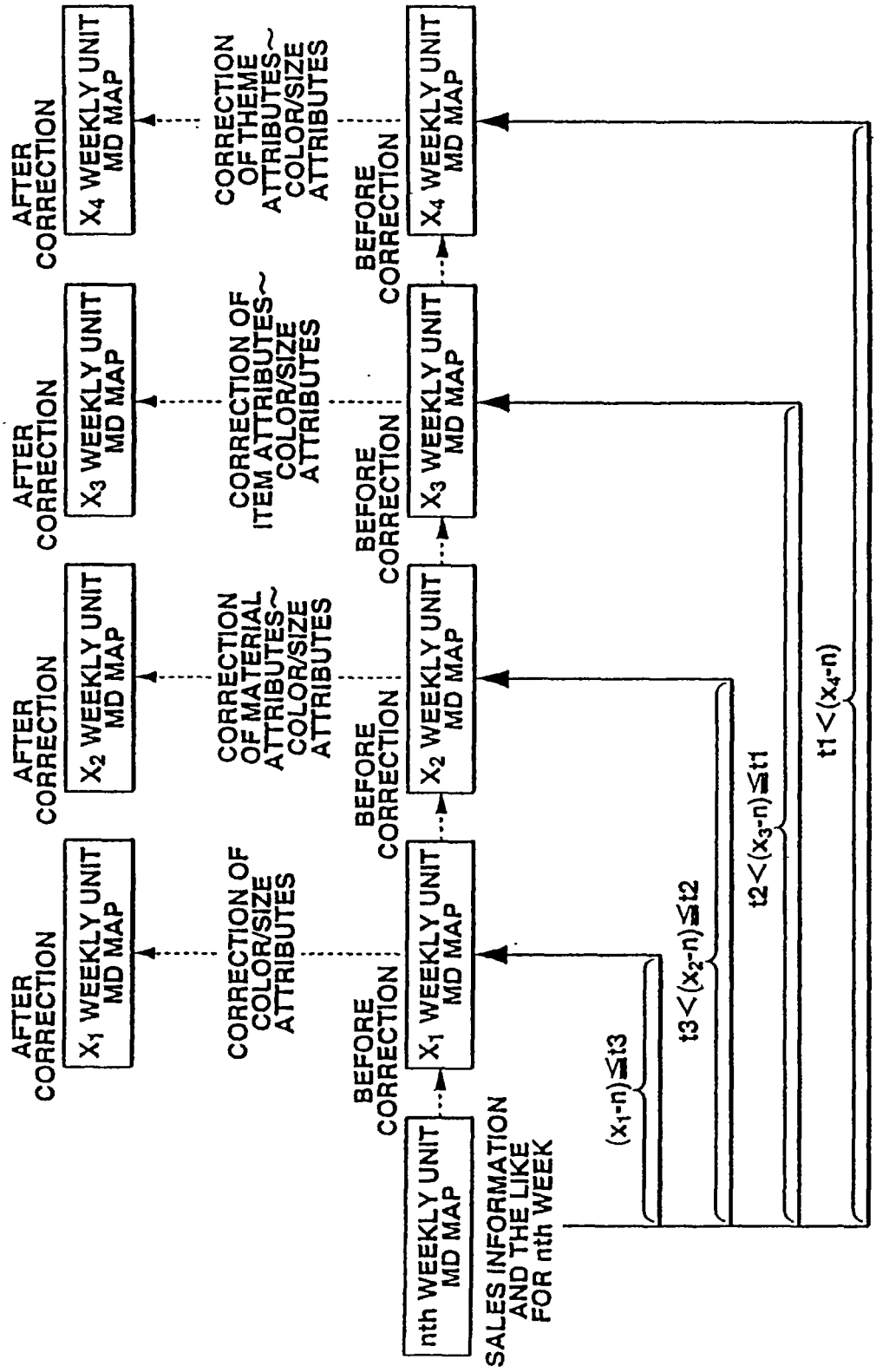

nth WEEKLY UNIT MD MAP
SALES INFORMATION AND THE LIKE FOR nth WEEK
BEFORE CORRECTION
X1 WEEKLY UNIT MD MAP
CORRECTION OF COLOR/SIZE ATTRIBUTES
AFTER CORRECTION
X1 WEEKLY UNIT MD MAP
BEFORE CORRECTION
X2 WEEKLY UNIT MD MAP
CORRECTION OF MATERIAL ATTRIBUTES~ COLOR/SIZE ATTRIBUTES
AFTER CORRECTION
X2 WEEKLY UNIT MD MAP
BEFORE CORRECTION
X3 WEEKLY UNIT MD MAP
CORRECTION OF ITEM ATTRIBUTES~ COLOR/SIZE ATTRIBUTES
AFTER CORRECTION
X3 WEEKLY UNIT MD MAP
BEFORE CORRECTION
X4 WEEKLY UNIT MD MAP
CORRECTION OF THEME ATTRIBUTES~ COLOR/SIZE ATTRIBUTES
AFTER CORRECTION
X4 WEEKLY UNIT MD MAP
(x1-n)≦t3
t3<(x2-n)≦t2
t2<(x3-n)≦t1
t1<(x4-n)

FIG.12

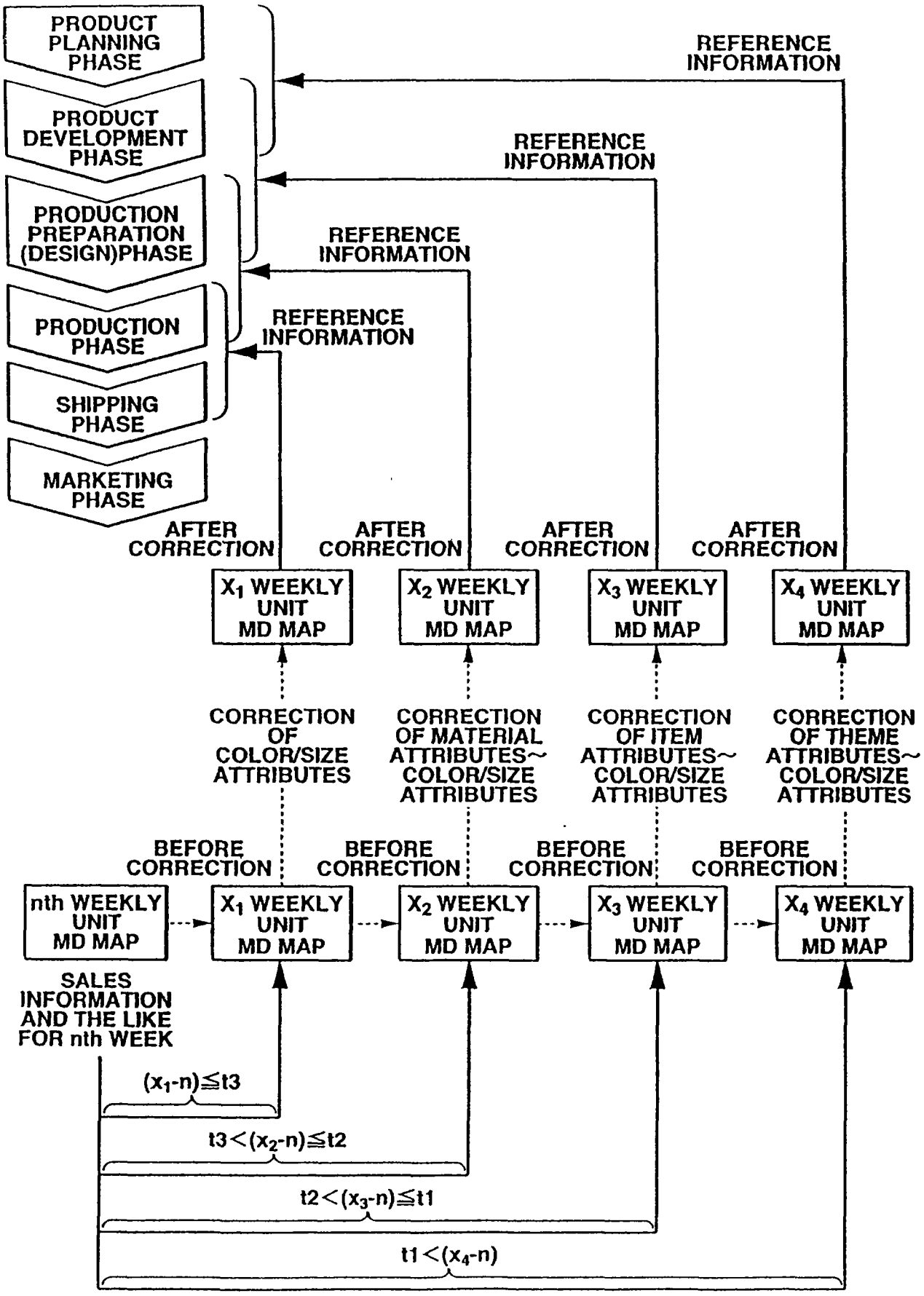
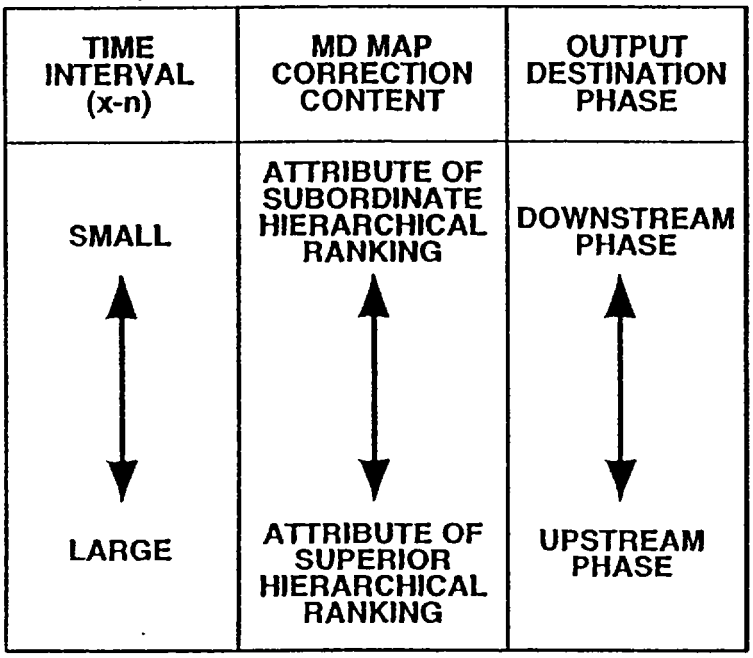

PRODUCT PLANNING PHASE
PRODUCT DEVELOPMENT PHASE
PRODUCTION PREPARATION (DESIGN)PHASE
PRODUCTION PHASE
SHIPPING PHASE
MARKETING PHASE
REFERENCE INFORMATION
REFERENCE INFORMATION
REFERENCE INFORMATION
REFERENCE INFORMATION
AFTER CORRECTION
AFTER CORRECTION
AFTER CORRECTION
AFTER CORRECTION
X1 WEEKLY UNIT MD MAP
X2 WEEKLY UNIT MD MAP
X3 WEEKLY UNIT MD MAP
X4 WEEKLY UNIT MD MAP
CORRECTION OF COLOR/SIZE ATTRIBUTES
CORRECTION OF MATERIAL ATTRIBUTES~ COLOR/SIZE ATTRIBUTES
CORRECTION OF ITEM ATTRIBUTES~ COLOR/SIZE ATTRIBUTES
CORRECTION OF THEME ATTRIBUTES~ COLOR/SIZE ATTRIBUTES
BEFORE CORRECTION
BEFORE CORRECTION
BEFORE CORRECTION
BEFORE CORRECTION
nth WEEKLY UNIT MD MAP
X1 WEEKLY UNIT MD MAP
X2 WEEKLY UNIT MD MAP
X3 WEEKLY UNIT MD MAP
X4 WEEKLY UNIT MD MAP
SALES INFORMATION AND THE LIKE FOR nth WEEK
(x1-n)≦t3
t3<(x2-n)≦t2
t2<(x3-n)≦t1
t1<(x4-n)

FIG.13


TIME INTERVAL (x-n)
MD MAP CORRECTION CONTENT
OUTPUT DESTINATION PHASE
SMALL
ATTRIBUTE OF SUBORDINATE HIERARCHICAL RANKING
DOWNSTREAM PHASE
LARGE
ATTRIBUTE OF SUPERIOR HIERARCHICAL RANKING
UPSTREAM PHASE