【FIGURE】

FIG. 1

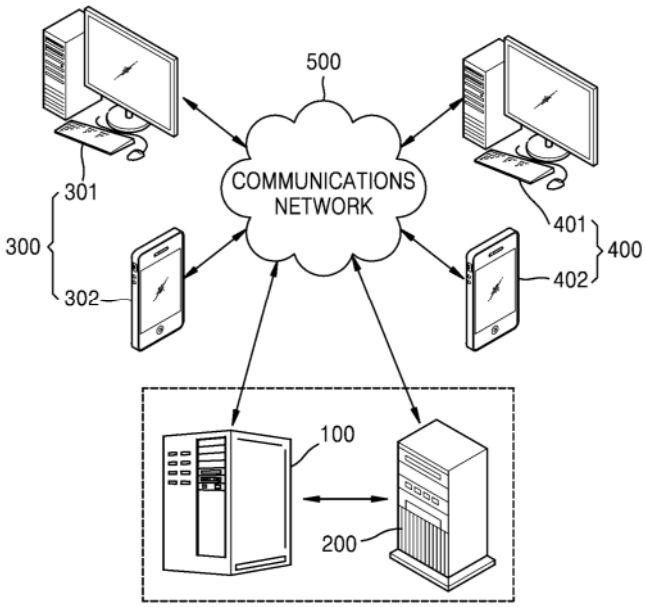


FIG. 2

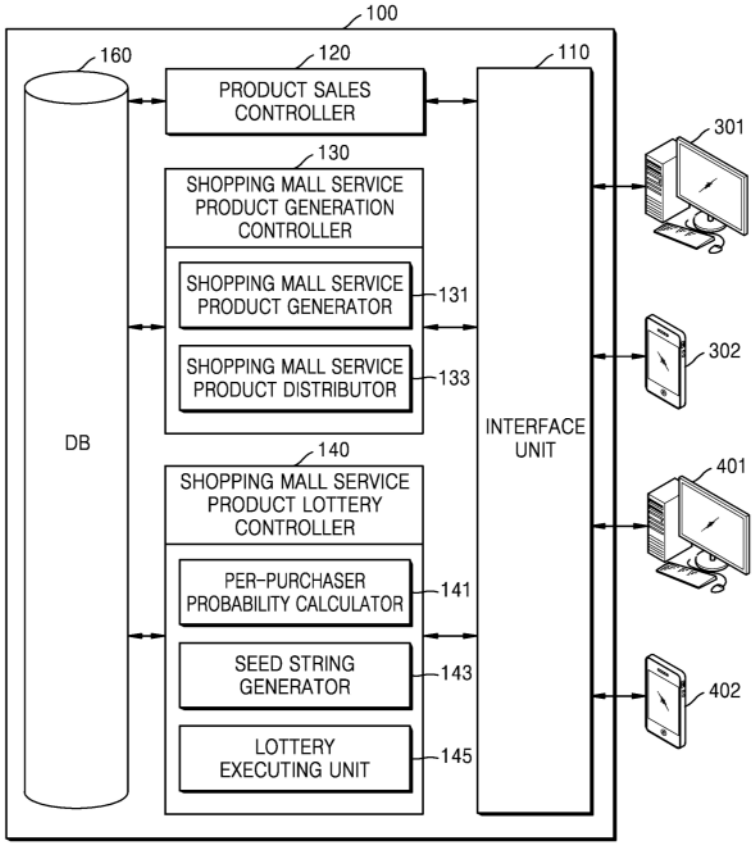


FIG. 3

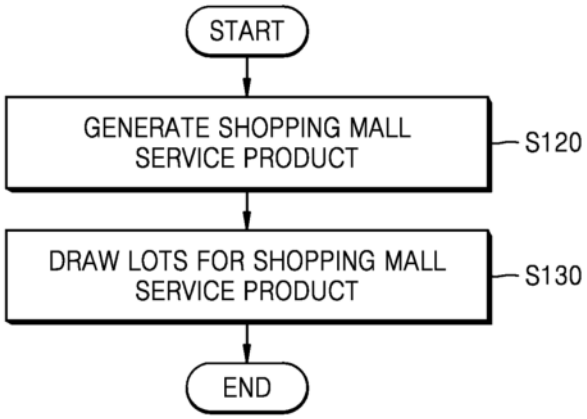

START
GENERATE SHOPPING MALL SERVICE PRODUCT
S120
DRAW LOTS FOR SHOPPING MALL SERVICE PRODUCT
S130
END

FIG. 4

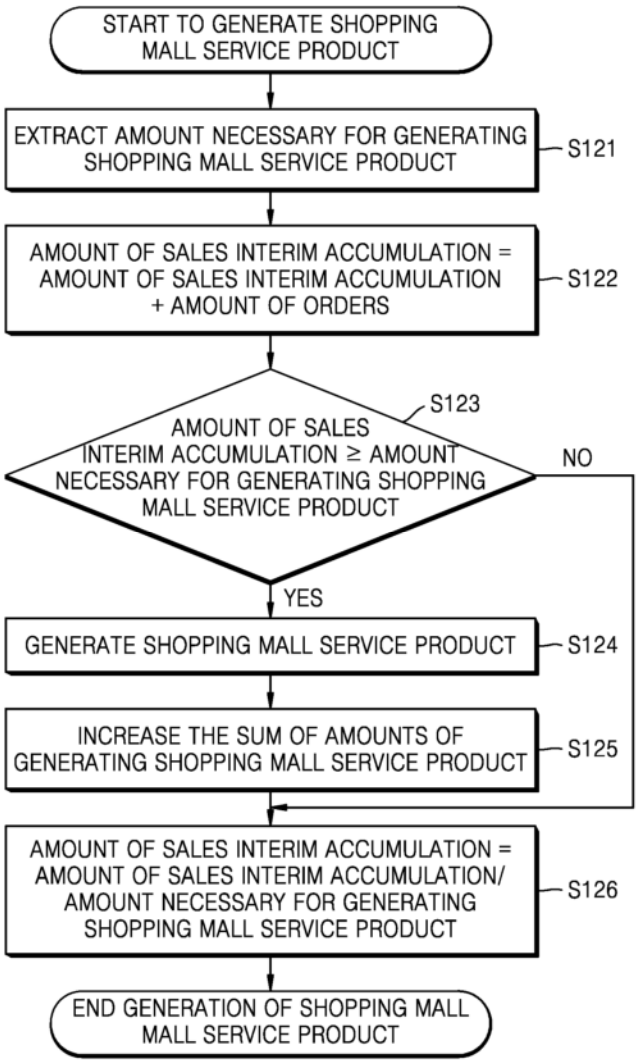

START TO GENERATE SHOPPING MALL SERVICE PRODUCT
EXTRACT AMOUNT NECESSARY FOR GENERATING SHOPPING MALL SERVICE PRODUCT
S121
AMOUNT OF SALES INTERIM ACCUMULATION = AMOUNT OF SALES INTERIM ACCUMULATION + AMOUNT OF ORDERS
S122
S123
AMOUNT OF SALES INTERIM ACCUMULATION ≥ AMOUNT NECESSARY FOR GENERATING SHOPPING MALL SERVICE PRODUCT
NO
YES
GENERATE SHOPPING MALL SERVICE PRODUCT
S124
INCREASE THE SUM OF AMOUNTS OF GENERATING SHOPPING MALL SERVICE PRODUCT
S125
AMOUNT OF SALES INTERIM ACCUMULATION = AMOUNT OF SALES INTERIM ACCUMULATION/ AMOUNT NECESSARY FOR GENERATING SHOPPING MALL SERVICE PRODUCT
S126
END GENERATION OF SHOPPING MALL MALL SERVICE PRODUCT

FIG. 5

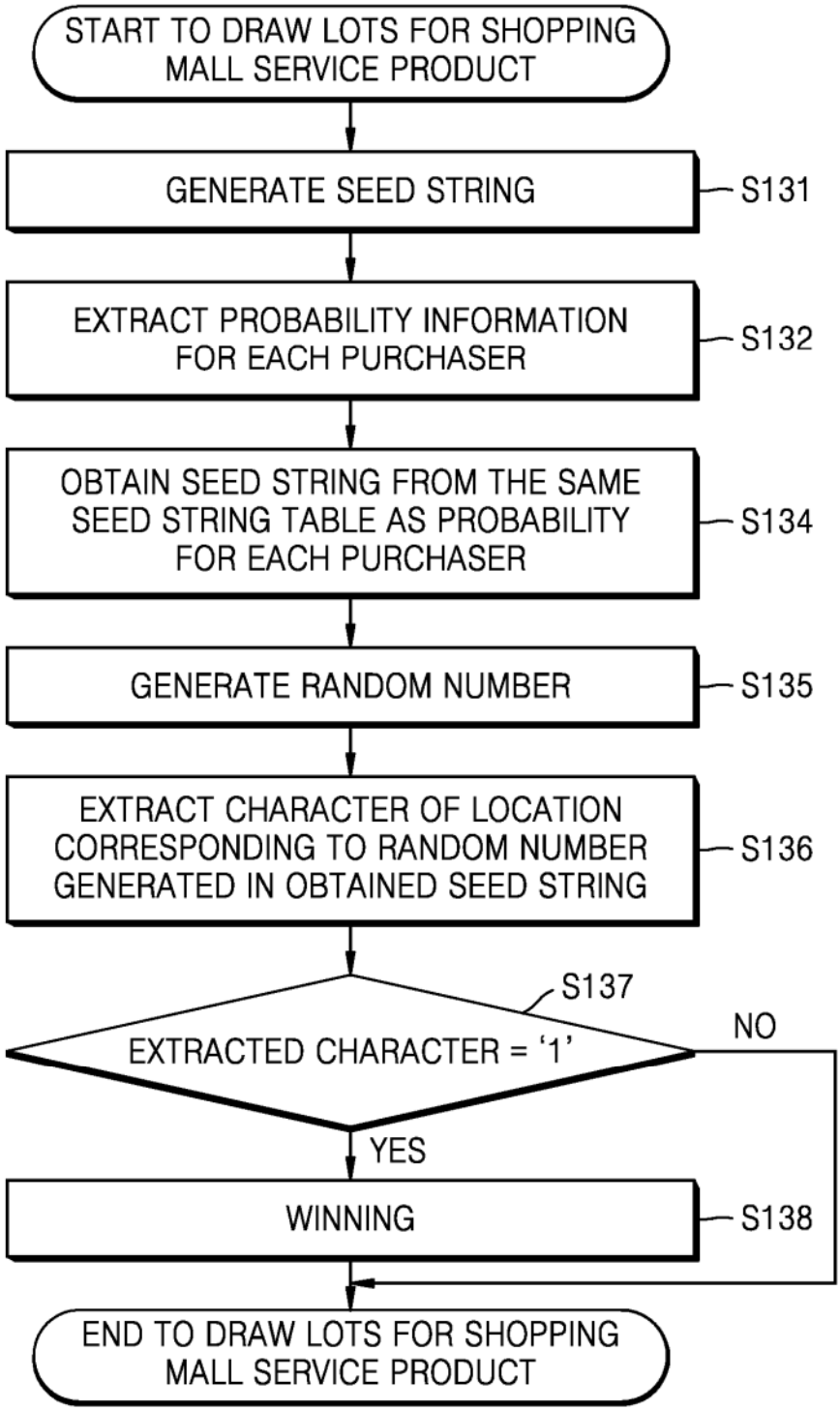

START TO DRAW LOTS FOR SHOPPING MALL SERVICE PRODUCT
GENERATE SEED STRING
S131
EXTRACT PROBABILITY INFORMATION FOR EACH PURCHASER
S132
OBTAIN SEED STRING FROM THE SAME SEED STRING TABLE AS PROBABILITY FOR EACH PURCHASER
S134
GENERATE RANDOM NUMBER
S135
EXTRACT CHARACTER OF LOCATION CORRESPONDING TO RANDOM NUMBER GENERATED IN OBTAINED SEED STRING
S136
S137
EXTRACTED CHARACTER = '1'
NO
YES
WINNING
S138
END TO DRAW LOTS FOR SHOPPING MALL SERVICE PRODUCT

FIG. 6


A
B
1 2 3 4 5 ... n−4 n−3 n−2 n−1 n
0 0 0 0 0 ... 0 0 0 0 0
1 1 1 1 1 ... 1 1 1 1 1
REPEATEDLY GENERATE A' AND B'
BY EXCHANGING RANDOM LOCATIONS

FIG. 7

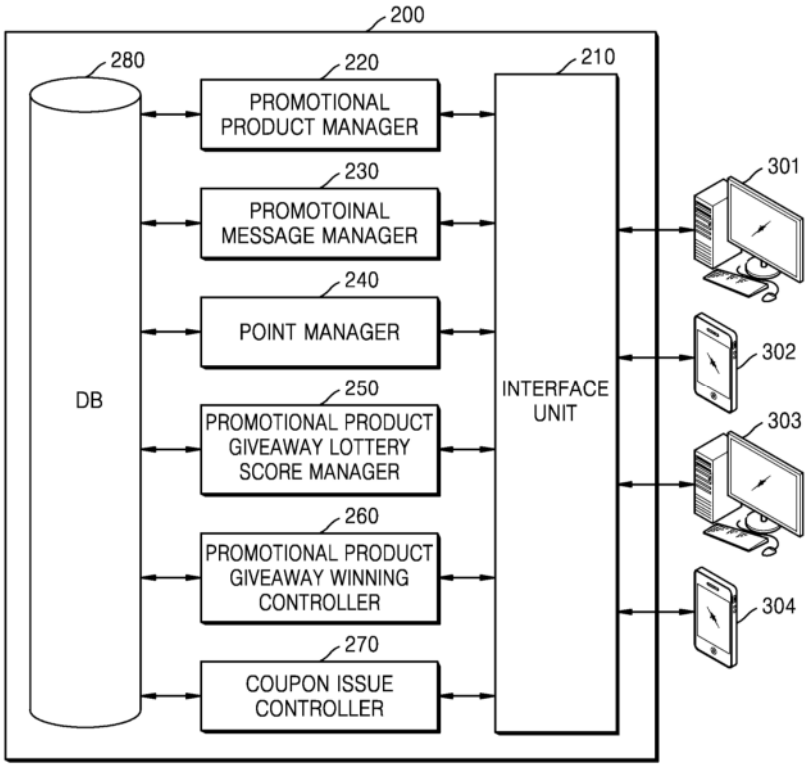

200
280
DB
220
PROMOTIONAL PRODUCT MANAGER
230
PROMOTOINAL MESSAGE MANAGER
240
POINT MANAGER
250
PROMOTIONAL PRODUCT GIVEAWAY LOTTERY SCORE MANAGER
260
PROMOTIONAL PRODUCT GIVEAWAY WINNING CONTROLLER
270
COUPON ISSUE CONTROLLER
210
INTERFACE UNIT
301
302
303
304

FIG. 8

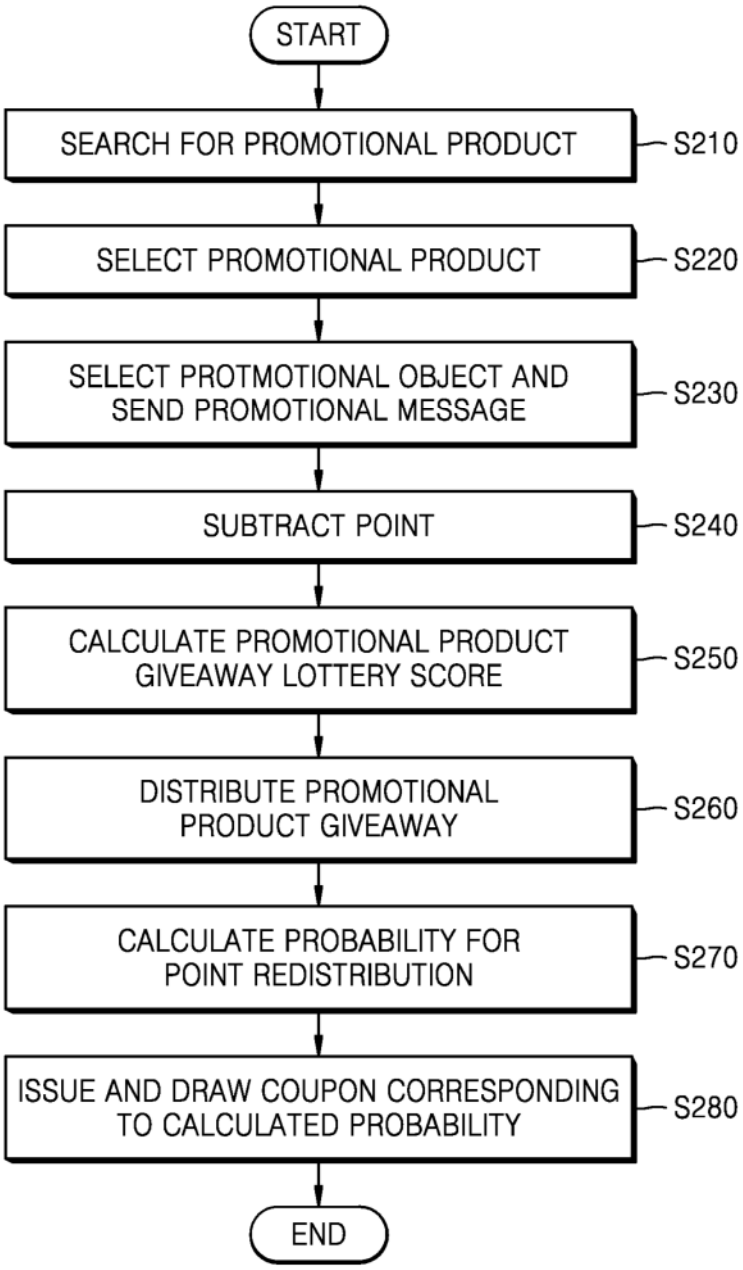

START
SEARCH FOR PROMOTIONAL PRODUCT
S210
SELECT PROMOTIONAL PRODUCT
S220
SELECT PROTMOTIONAL OBJECT AND SEND PROMOTIONAL MESSAGE
S230
SUBTRACT POINT
S240
CALCULATE PROMOTIONAL PRODUCT GIVEAWAY LOTTERY SCORE
S250
DISTRIBUTE PROMOTIONAL PRODUCT GIVEAWAY
S260
CALCULATE PROBABILITY FOR POINT REDISTRIBUTION
S270
ISSUE AND DRAW COUPON CORRESPONDING TO CALCULATED PROBABILITY
S280
END

FIG. 9

