FIG. 1

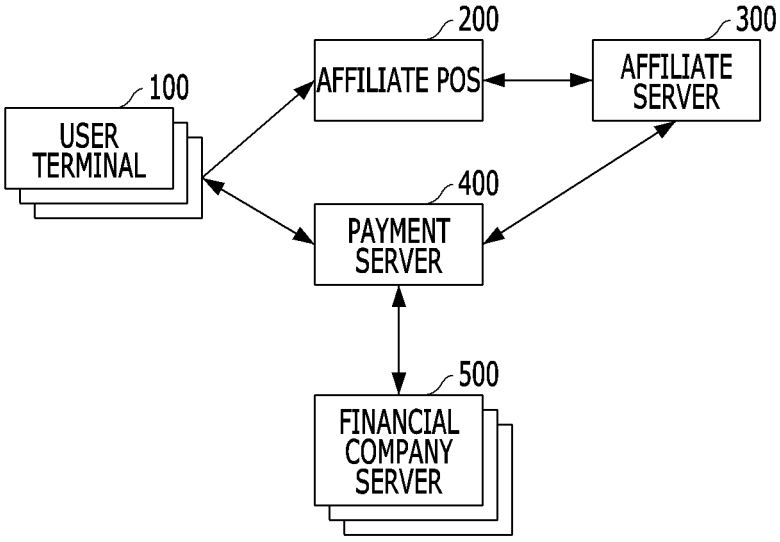

200
300
AFFILIATE POS
AFFILIATE SERVER
100
USER TERMINAL
400
PAYMENT SERVER
500
FINANCIAL COMPANY SERVER

FIG. 2A

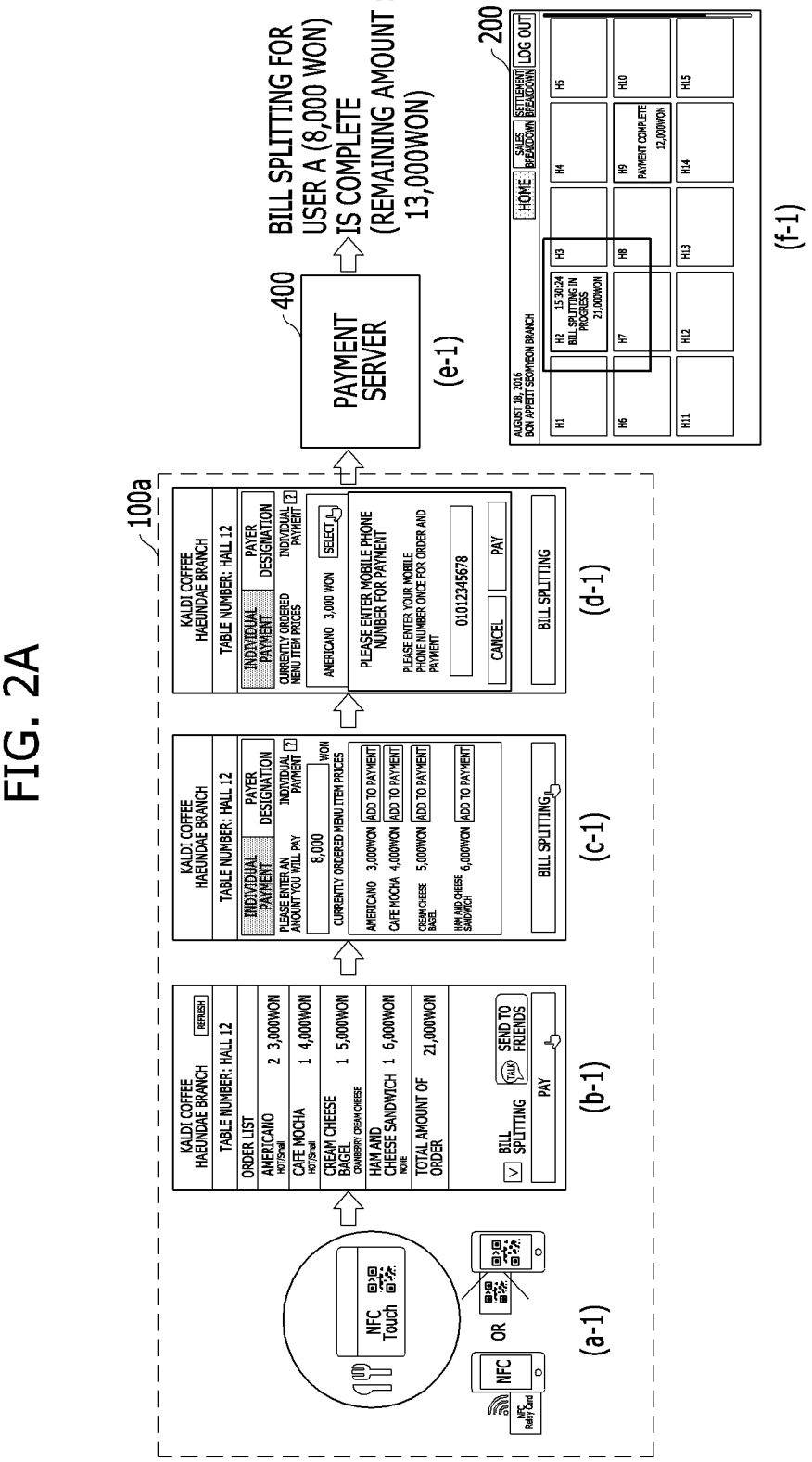

100a
KALDI COFFEE
HAEUNDAE BRANCH
TABLE NUMBER: HALL 12
ORDER LIST
AMERICANO 2 3,000WON
CAFE MOCHA 1 4,000WON
CREAM CHEESE BAGEL 1 5,000WON
HAM AND CHEESE SANDWICH 1 6,000WON
TOTAL AMOUNT OF ORDER 21,000WON
REFRESH
BILL SPLITTING
SEND TO FRIENDS
PAY
NFC Touch
OR
NFC
(a-1)
(b-1)
INDIVIDUAL PAYMENT
PAYER DESIGNATION
PLEASE ENTER AN AMOUNT YOU WILL PAY
8,000
WON
CURRENTLY ORDERED MENU ITEM PRICES
AMERICANO 3,000WON
CAFE MOCHA 4,000WON
CREAM CHEESE BAGEL 5,000WON
HAM AND CHEESE SANDWICH 6,000WON
ADD TO PAYMENT
(c-1)
CURRENTLY ORDERED MENU ITEM PRICES
AMERICANO 3,000 WON
SELECT
PLEASE ENTER MOBILE PHONE NUMBER FOR PAYMENT
PLEASE ENTER YOUR MOBILE PHONE NUMBER ONCE FOR ORDER AND PAYMENT
01012345678
CANCEL
PAY
(d-1)
400
PAYMENT SERVER
(e-1)
BILL SPLITTING FOR USER A (8,000 WON) IS COMPLETE (REMAINING AMOUNT : 13,000WON)
200
HOME
SALES BREAKDOWN
SETTLEMENT BREAKDOWN
LOG OUT
AUGUST 18, 2016
BON APPETIT SEOMYEON BRANCH
BILL SPLITTING IN PROGRESS 21,000WON
PAYMENT COMPLETE 12,000WON
(f-1)

FIG. 2B

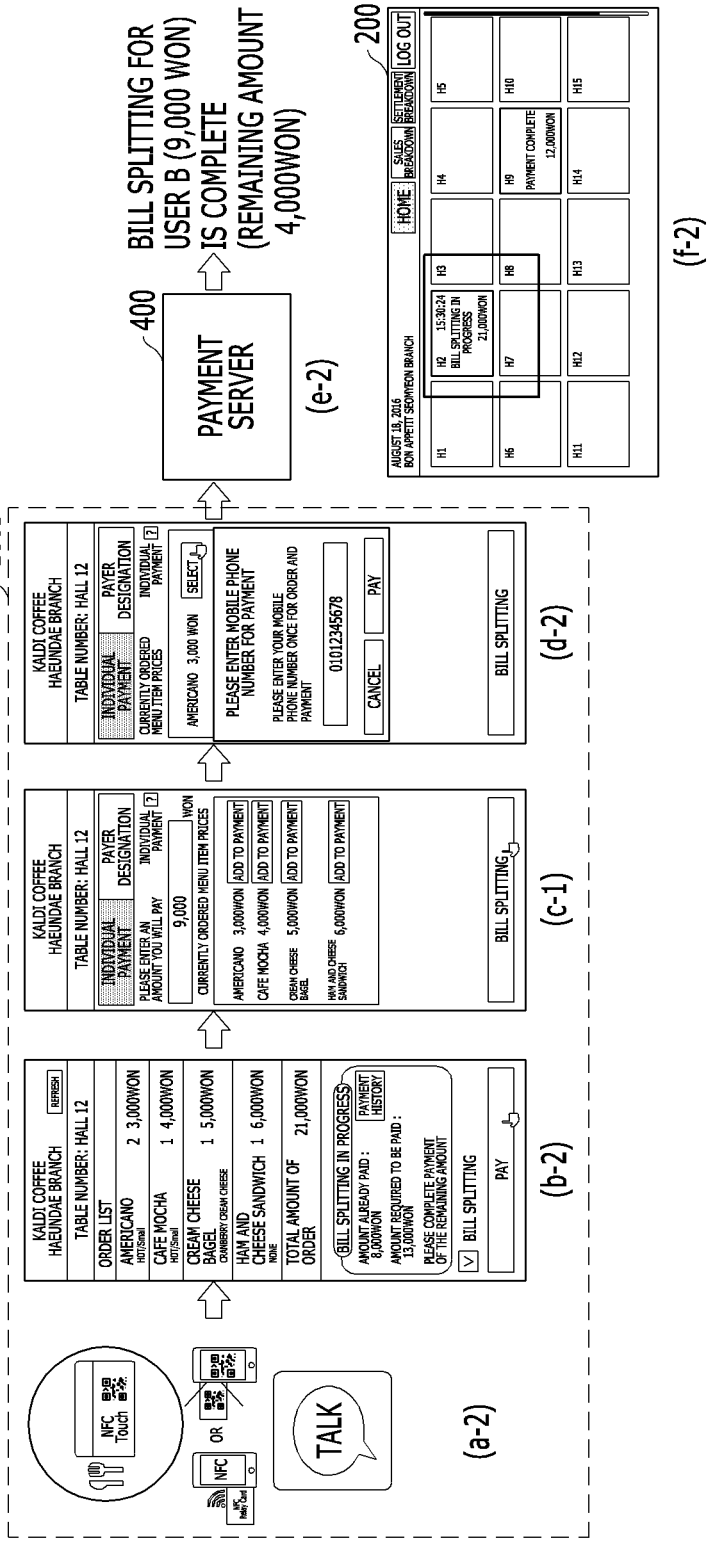

100b
KALDI COFFEE
HAEUNDAE BRANCH
REFRESH
TABLE NUMBER: HALL 12
ORDER LIST
AMERICANO HOT/Small 2 3,000WON
CAFE MOCHA HOT/Small 1 4,000WON
CREAM CHEESE BAGEL CONVERSY CREAM CHEESE 1 5,000WON
HAM AND CHEESE SANDWICH NONE 1 6,000WON
TOTAL AMOUNT OF ORDER 21,000WON
BILL SPLITTING IN PROGRESS
PAYMENT HISTORY
AMOUNT ALREADY PAID : 8,000WON
AMOUNT REQUIRED TO BE PAID : 13,000WON
PLEASE COMPLETE PAYMENT OF THE REMAINING AMOUNT
BILL SPLITTING
PAY
(a-2)
NFC Touch
OR
NFC
TALK
(b-2)
INDIVIDUAL PAYMENT
PAYER DESIGNATION
PLEASE ENTER AN AMOUNT YOU WILL PAY
9,000
WON
INDIVIDUAL PAYMENT
CURRENTLY ORDERED MENU ITEM PRICES
AMERICANO 3,000WON ADD TO PAYMENT
CAFE MOCHA 4,000WON ADD TO PAYMENT
CREAM CHEESE BAGEL 5,000WON ADD TO PAYMENT
HAM AND CHEESE SANDWICH 6,000WON ADD TO PAYMENT
BILL SPLITTING
(c-1)
INDIVIDUAL PAYMENT
PAYER DESIGNATION
CURRENTLY ORDERED MENU ITEM PRICES
INDIVIDUAL PAYMENT
AMERICANO 3,000 WON
SELECT
PLEASE ENTER MOBILE PHONE NUMBER FOR PAYMENT
PLEASE ENTER YOUR MOBILE PHONE NUMBER ONCE FOR ORDER AND PAYMENT
01012345678
CANCEL
PAY
BILL SPLITTING
(d-2)
400
PAYMENT SERVER
(e-2)
BILL SPLITTING FOR USER B (9,000 WON) IS COMPLETE (REMAINING AMOUNT : 4,000WON)
200
AUGUST 19, 2016
BON APPETIT SEOHYEON BRANCH
HOME
SALES BREAKDOWN
SETTLEMENT BREAKDOWN
LOG OUT
H1
H2 15:30:24 BILL SPLITTING IN PROGRESS 21,000WON
H3
H4
H5
H6
H7
H8
H9 PAYMENT COMPLETE 12,000WON
H10
H11
H12
H13
H14
H15
(f-2)

FIG. 2C

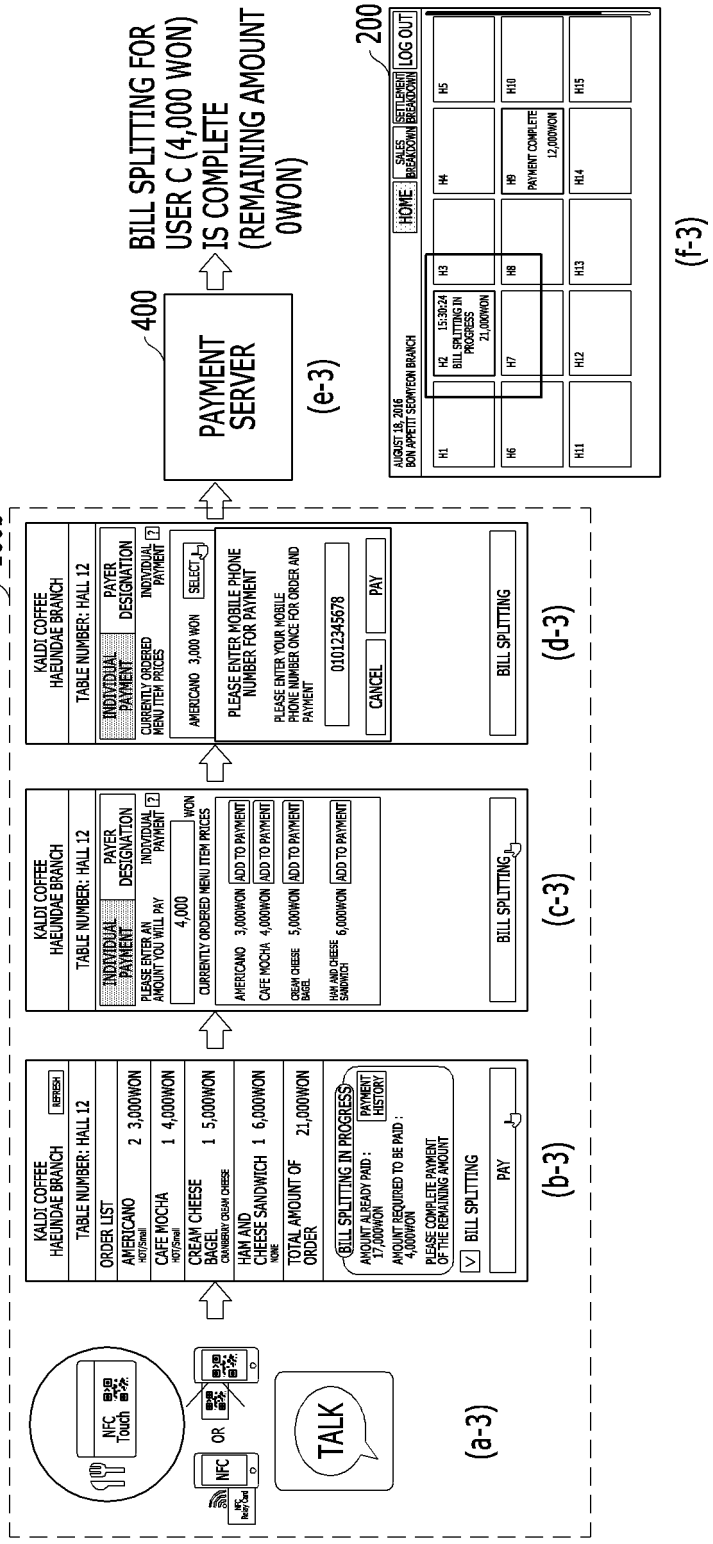

100b
KALDI COFFEE
HAEUNDAE BRANCH
TABLE NUMBER: HALL 12
ORDER LIST
AMERICANO 2 3,000WON
CAFE MOCHA 1 4,000WON
CREAM CHEESE BAGEL 1 5,000WON
HAM AND CHEESE SANDWICH 1 6,000WON
TOTAL AMOUNT OF ORDER 21,000WON
BILL SPLITTING IN PROGRESS
AMOUNT ALREADY PAID : 17,000WON
AMOUNT REQUIRED TO BE PAID : 4,000WON
PLEASE COMPLETE PAYMENT OF THE REMAINING AMOUNT
BILL SPLITTING
PAY
(b-3)
INDIVIDUAL PAYMENT
PAYER DESIGNATION
PLEASE ENTER AN AMOUNT YOU WILL PAY
4,000
CURRENTLY ORDERED MENU ITEM PRICES
AMERICANO 3,000WON
CAFE MOCHA 4,000WON
CREAM CHEESE BAGEL 5,000WON
HAM AND CHEESE SANDWICH 6,000WON
ADD TO PAYMENT
BILL SPLITTING
(c-3)
CURRENTLY ORDERED MENU ITEM PRICES
AMERICANO 3,000 WON
SELECT
PLEASE ENTER MOBILE PHONE NUMBER FOR PAYMENT
PLEASE ENTER YOUR MOBILE PHONE NUMBER ONCE FOR ORDER AND PAYMENT
01012345678
CANCEL
PAY
BILL SPLITTING
(d-3)
NFC Touch
OR
NFC
TALK
(a-3)
400
PAYMENT SERVER
(e-3)
BILL SPLITTING FOR USER C (4,000 WON) IS COMPLETE (REMAINING AMOUNT : 0WON)
200
AUGUST 18, 2016
BON APPETIT SEOMYEON BRANCH
HOME
SALES BREAKDOWN
SETTLEMENT BREAKDOWN
LOG OUT
H2 15:30:24 BILL SPLITTING IN PROGRESS 21,000WON
H9 PAYMENT COMPLETE 12,000WON
(f-3)

FIG. 3

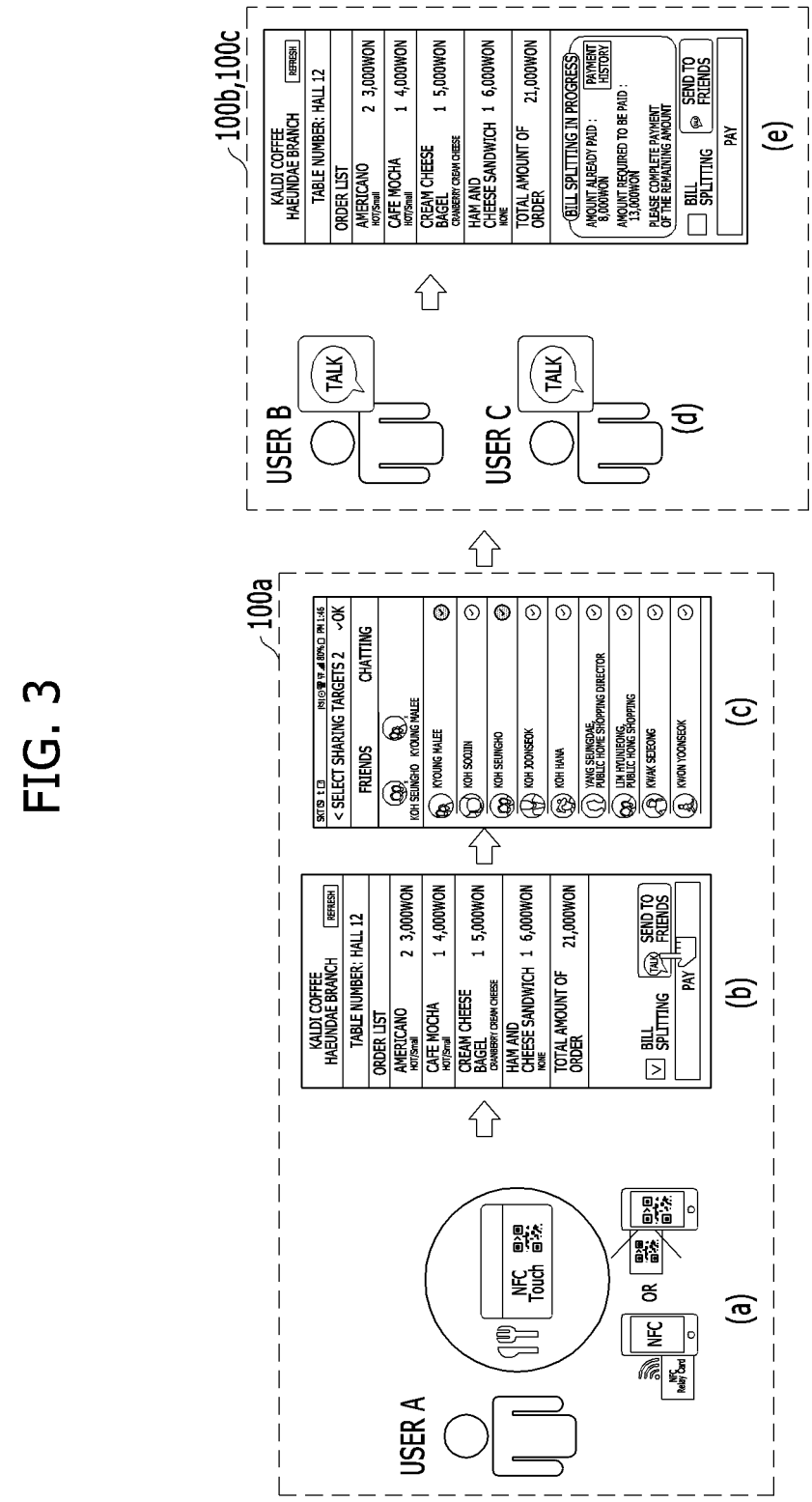

100a
100b,100c
USER A
NFC
NFC Touch
OR
NFC Ready Card
(a)
KALDI COFFEE HAEUNDAE BRANCH
REFRESH
TABLE NUMBER: HALL 12
ORDER LIST
AMERICANO HOT/Small 2 3,000WON
CAFE MOCHA HOT/Small 1 4,000WON
CREAM CHEESE BAGEL CRANBERRY CREAM CHEESE 1 5,000WON
HAM AND CHEESE SANDWICH NONE 1 6,000WON
TOTAL AMOUNT OF ORDER 21,000WON
BILL SPLITTING
SEND TO FRIENDS
PAY
(b)
< SELECT SHARING TARGETS 2
OK
FRIENDS
CHATTING
KOH SEUNGHO
KYOUNG HALEE
KOH SOOJIN
KOH SEUNGHO
KOH JOONSEOK
KOH HANA
YANG SEUNGNAE, PUBLIC HOME SHOPPING DIRECTOR
LIM HYUNJEONG, PUBLIC HONG SHOPPING
KWAK SEBONG
KWON YOONSEOK
(c)
USER B
USER C
TALK
(d)
BILL SPLITTING IN PROGRESS
AMOUNT ALREADY PAID : 8,000WON
PAYMENT HISTORY
AMOUNT REQUIRED TO BE PAID : 13,000WON
PLEASE COMPLETE PAYMENT OF THE REMAINING AMOUNT
BILL SPLITTING
SEND TO FRIENDS
PAY
(e)

FIG. 4

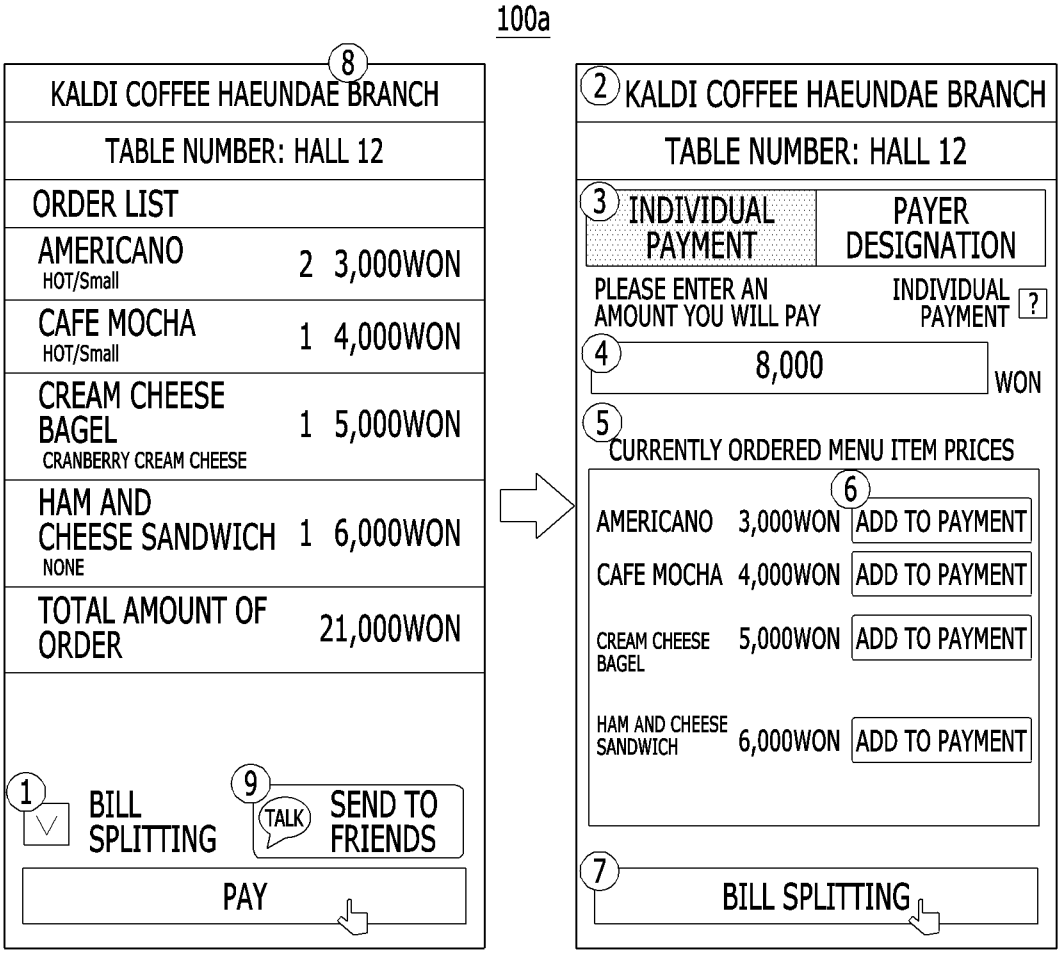

100a
8
KALDI COFFEE HAEUNDAE BRANCH
TABLE NUMBER: HALL 12
ORDER LIST
AMERICANO HOT/Small 2 3,000WON
CAFE MOCHA HOT/Small 1 4,000WON
CREAM CHEESE BAGEL CRANBERRY CREAM CHEESE 1 5,000WON
HAM AND CHEESE SANDWICH NONE 1 6,000WON
TOTAL AMOUNT OF ORDER 21,000WON
1
BILL SPLITTING
9
TALK
SEND TO FRIENDS
PAY
2
KALDI COFFEE HAEUNDAE BRANCH
TABLE NUMBER: HALL 12
3
INDIVIDUAL PAYMENT
PAYER DESIGNATION
PLEASE ENTER AN AMOUNT YOU WILL PAY
INDIVIDUAL PAYMENT ?
4
8,000
WON
5
CURRENTLY ORDERED MENU ITEM PRICES
6
AMERICANO 3,000WON ADD TO PAYMENT
CAFE MOCHA 4,000WON ADD TO PAYMENT
CREAM CHEESE BAGEL 5,000WON ADD TO PAYMENT
HAM AND CHEESE SANDWICH 6,000WON ADD TO PAYMENT
7
BILL SPLITTING

FIG. 5

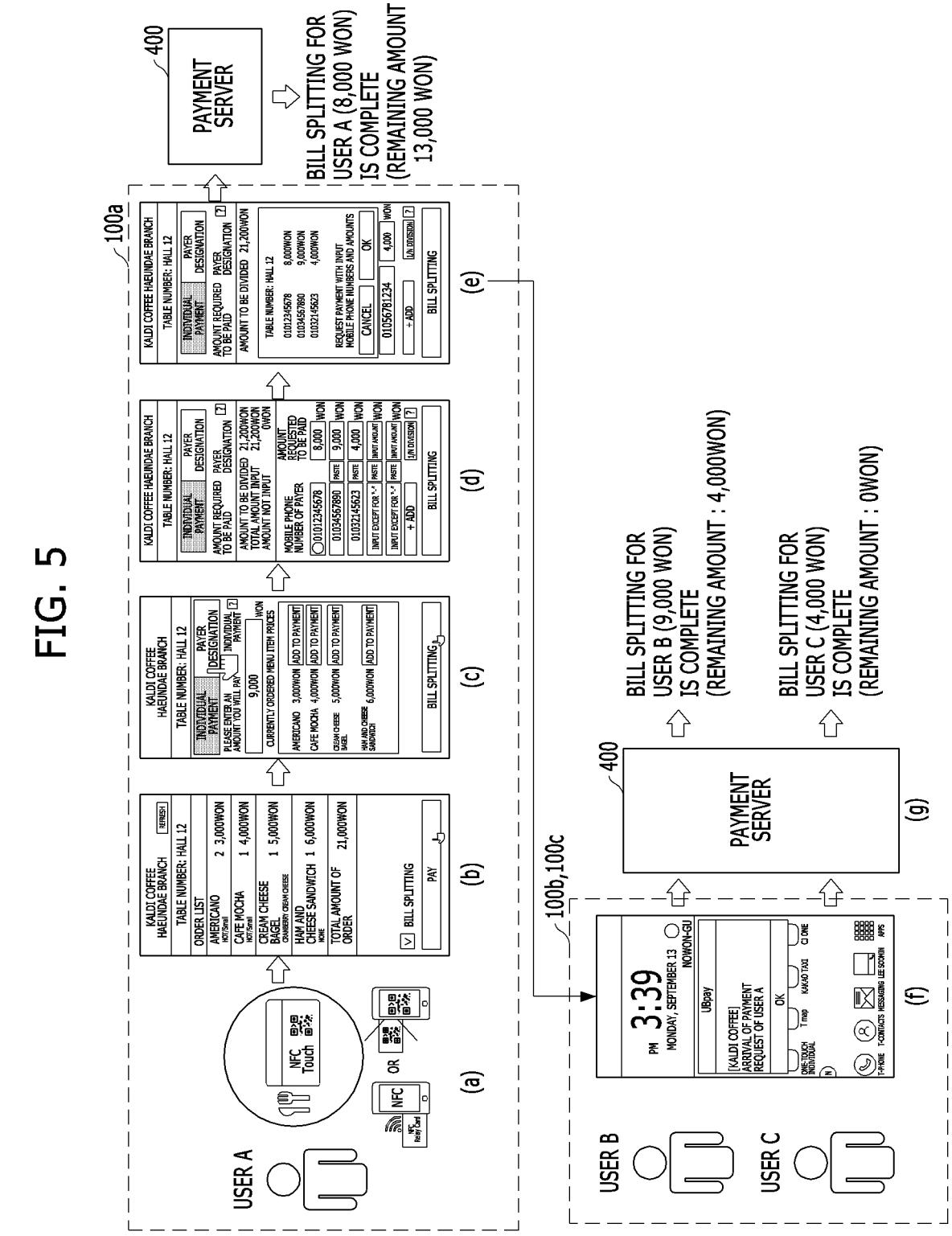

400
PAYMENT SERVER
BILL SPLITTING FOR USER A (8,000 WON) IS COMPLETE (REMAINING AMOUNT : 13,000 WON)
100a
KALDI COFFEE HAEUNDAE BRANCH
TABLE NUMBER: HALL 12
ORDER LIST
AMERICANO 2 3,000WON
CAFE MOCHA 1 4,000WON
CREAM CHEESE BAGEL 1 5,000WON
HAM AND CHEESE SANDWICH 1 6,000WON
TOTAL AMOUNT OF ORDER 21,000WON
BILL SPLITTING
PAY
(a)
(b)
(c)
(d)
(e)
USER A
NFC Touch
NFC
OR
100b,100c
USER B
USER C
3:39
MONDAY, SEPTEMBER 13
UBpay
[KALDI COFFEE] ARRIVAL OF PAYMENT REQUEST OF USER A
OK
BILL SPLITTING FOR USER B (9,000 WON) IS COMPLETE (REMAINING AMOUNT : 4,000WON)
BILL SPLITTING FOR USER C (4,000 WON) IS COMPLETE (REMAINING AMOUNT : 0WON)
(f)
(g)

FIG. 6

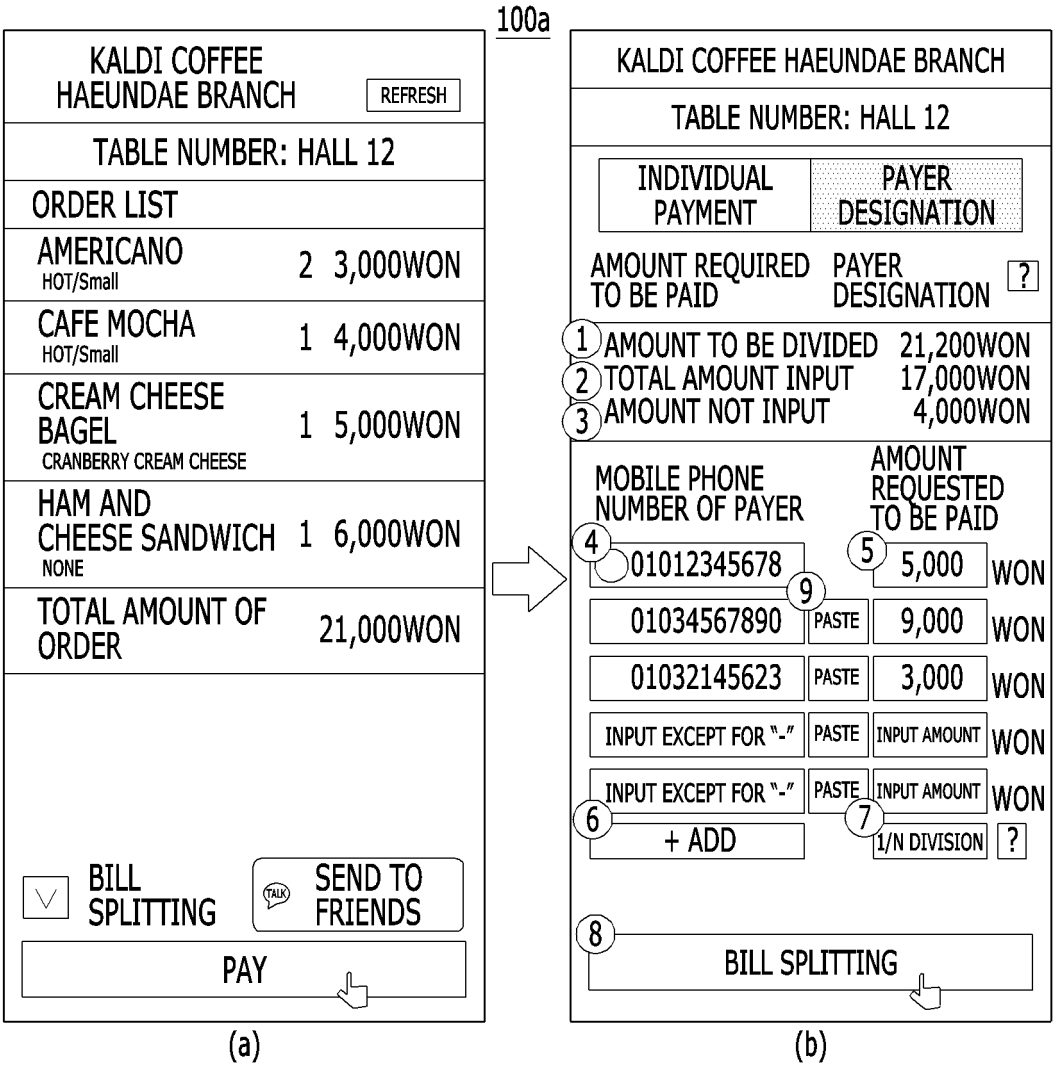

100a
KALDI COFFEE HAEUNDAE BRANCH
REFRESH
TABLE NUMBER: HALL 12
ORDER LIST
AMERICANO HOT/Small 2 3,000WON
CAFE MOCHA HOT/Small 1 4,000WON
CREAM CHEESE BAGEL CRANBERRY CREAM CHEESE 1 5,000WON
HAM AND CHEESE SANDWICH NONE 1 6,000WON
TOTAL AMOUNT OF ORDER 21,000WON
BILL SPLITTING
SEND TO FRIENDS
PAY
(a)
KALDI COFFEE HAEUNDAE BRANCH
TABLE NUMBER: HALL 12
INDIVIDUAL PAYMENT
PAYER DESIGNATION
AMOUNT REQUIRED TO BE PAID
PAYER DESIGNATION
1 AMOUNT TO BE DIVIDED 21,200WON
2 TOTAL AMOUNT INPUT 17,000WON
3 AMOUNT NOT INPUT 4,000WON
MOBILE PHONE NUMBER OF PAYER
AMOUNT REQUESTED TO BE PAID
4 01012345678
5 5,000 WON
9
01034567890 PASTE 9,000 WON
01032145623 PASTE 3,000 WON
INPUT EXCEPT FOR "-" PASTE INPUT AMOUNT WON
INPUT EXCEPT FOR "-" PASTE INPUT AMOUNT WON
6 + ADD
7 1/N DIVISION
8 BILL SPLITTING
(b)

FIG. 7

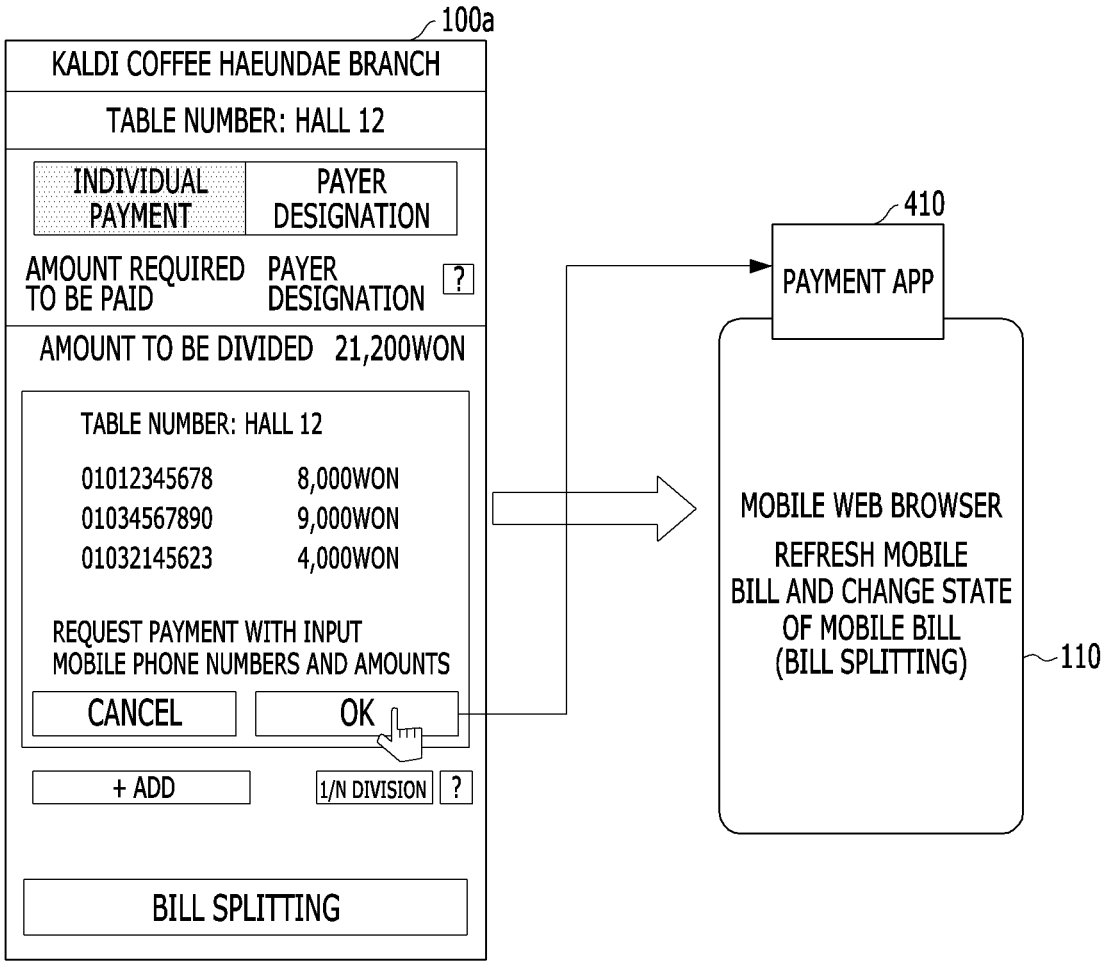

100a
KALDI COFFEE HAEUNDAE BRANCH
TABLE NUMBER: HALL 12
INDIVIDUAL PAYMENT
PAYER DESIGNATION
AMOUNT REQUIRED TO BE PAID
PAYER DESIGNATION
?
AMOUNT TO BE DIVIDED 21,200WON
TABLE NUMBER: HALL 12
01012345678 8,000WON
01034567890 9,000WON
01032145623 4,000WON
REQUEST PAYMENT WITH INPUT MOBILE PHONE NUMBERS AND AMOUNTS
CANCEL
OK
+ ADD
1/N DIVISION
?
BILL SPLITTING
410
PAYMENT APP
MOBILE WEB BROWSER
REFRESH MOBILE BILL AND CHANGE STATE OF MOBILE BILL (BILL SPLITTING)
110

FIG. 8

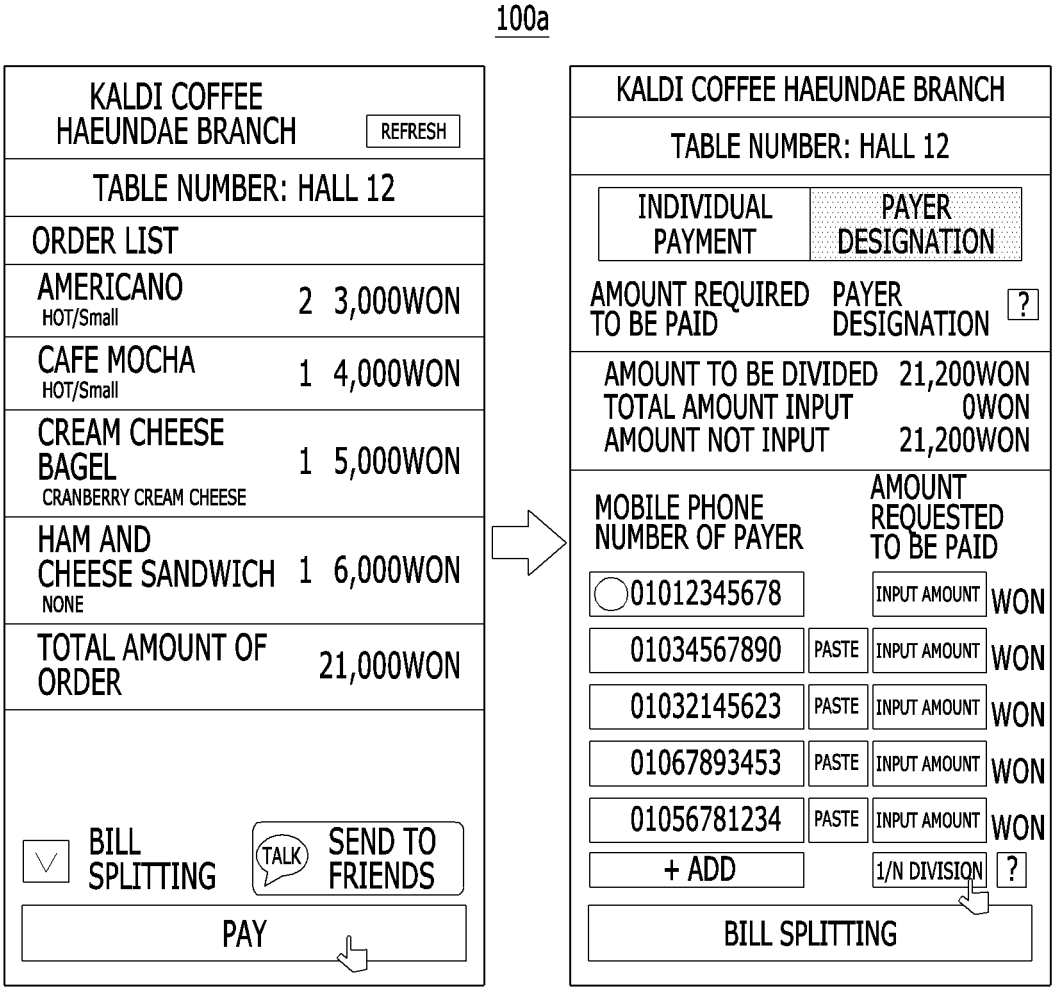

100a
KALDI COFFEE HAEUNDAE BRANCH
REFRESH
TABLE NUMBER: HALL 12
ORDER LIST
AMERICANO HOT/Small 2 3,000WON
CAFE MOCHA HOT/Small 1 4,000WON
CREAM CHEESE BAGEL CRANBERRY CREAM CHEESE 1 5,000WON
HAM AND CHEESE SANDWICH NONE 1 6,000WON
TOTAL AMOUNT OF ORDER 21,000WON
BILL SPLITTING
TALK
SEND TO FRIENDS
PAY
KALDI COFFEE HAEUNDAE BRANCH
TABLE NUMBER: HALL 12
INDIVIDUAL PAYMENT
PAYER DESIGNATION
AMOUNT REQUIRED TO BE PAID
PAYER DESIGNATION
?
AMOUNT TO BE DIVIDED 21,200WON
TOTAL AMOUNT INPUT 0WON
AMOUNT NOT INPUT 21,200WON
MOBILE PHONE NUMBER OF PAYER
AMOUNT REQUESTED TO BE PAID
01012345678 INPUT AMOUNT WON
01034567890 PASTE INPUT AMOUNT WON
01032145623 PASTE INPUT AMOUNT WON
01067893453 PASTE INPUT AMOUNT WON
01056781234 PASTE INPUT AMOUNT WON
+ ADD
1/N DIVISION
?
BILL SPLITTING

FIG. 9

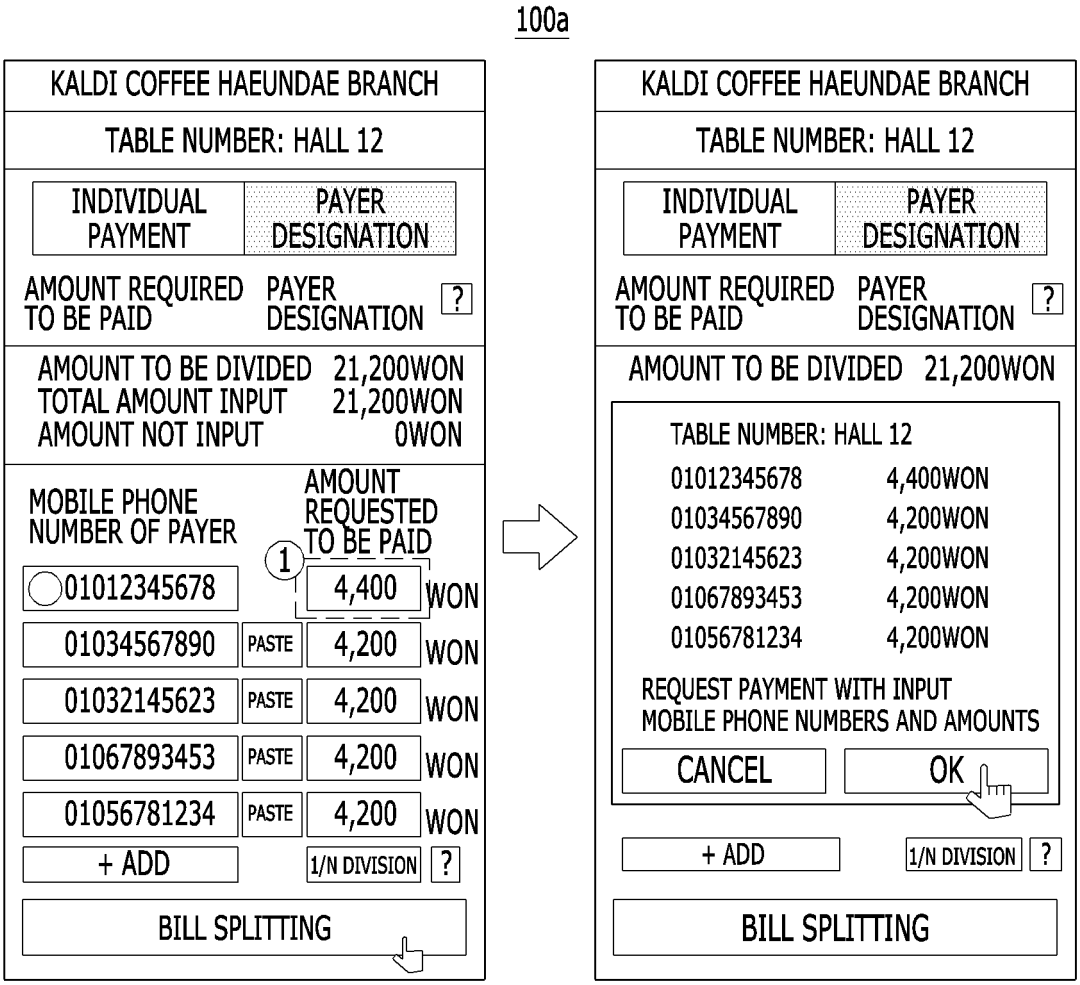

100a
KALDI COFFEE HAEUNDAE BRANCH
TABLE NUMBER: HALL 12
INDIVIDUAL PAYMENT
PAYER DESIGNATION
AMOUNT REQUIRED TO BE PAID
PAYER DESIGNATION
?
AMOUNT TO BE DIVIDED 21,200WON
TOTAL AMOUNT INPUT 21,200WON
AMOUNT NOT INPUT 0WON
MOBILE PHONE NUMBER OF PAYER
AMOUNT REQUESTED TO BE PAID
01012345678
4,400 WON
01034567890
PASTE
4,200 WON
01032145623
PASTE
4,200 WON
01067893453
PASTE
4,200 WON
01056781234
PASTE
4,200 WON
+ ADD
1/N DIVISION
?
BILL SPLITTING
KALDI COFFEE HAEUNDAE BRANCH
TABLE NUMBER: HALL 12
INDIVIDUAL PAYMENT
PAYER DESIGNATION
AMOUNT REQUIRED TO BE PAID
PAYER DESIGNATION
?
AMOUNT TO BE DIVIDED 21,200WON
TABLE NUMBER: HALL 12
01012345678 4,400WON
01034567890 4,200WON
01032145623 4,200WON
01067893453 4,200WON
01056781234 4,200WON
REQUEST PAYMENT WITH INPUT MOBILE PHONE NUMBERS AND AMOUNTS
CANCEL
OK
+ ADD
1/N DIVISION
?
BILL SPLITTING

FIG. 10

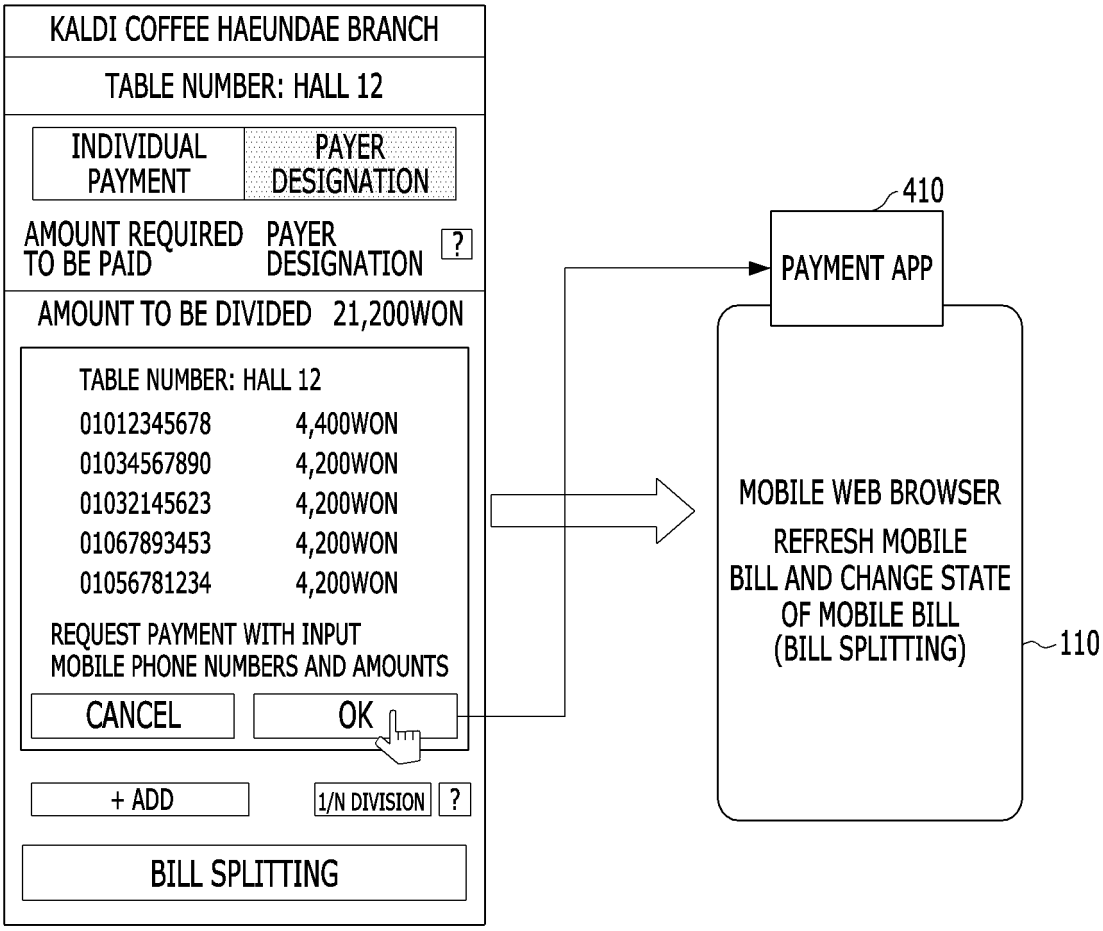

KALDI COFFEE HAEUNDAE BRANCH
TABLE NUMBER: HALL 12
INDIVIDUAL PAYMENT
PAYER DESIGNATION
AMOUNT REQUIRED TO BE PAID
PAYER DESIGNATION
?
AMOUNT TO BE DIVIDED 21,200WON
TABLE NUMBER: HALL 12
01012345678 4,400WON
01034567890 4,200WON
01032145623 4,200WON
01067893453 4,200WON
01056781234 4,200WON
REQUEST PAYMENT WITH INPUT MOBILE PHONE NUMBERS AND AMOUNTS
CANCEL
OK
+ ADD
1/N DIVISION
?
BILL SPLITTING
410
PAYMENT APP
MOBILE WEB BROWSER
REFRESH MOBILE BILL AND CHANGE STATE OF MOBILE BILL (BILL SPLITTING)
110

FIG. 11

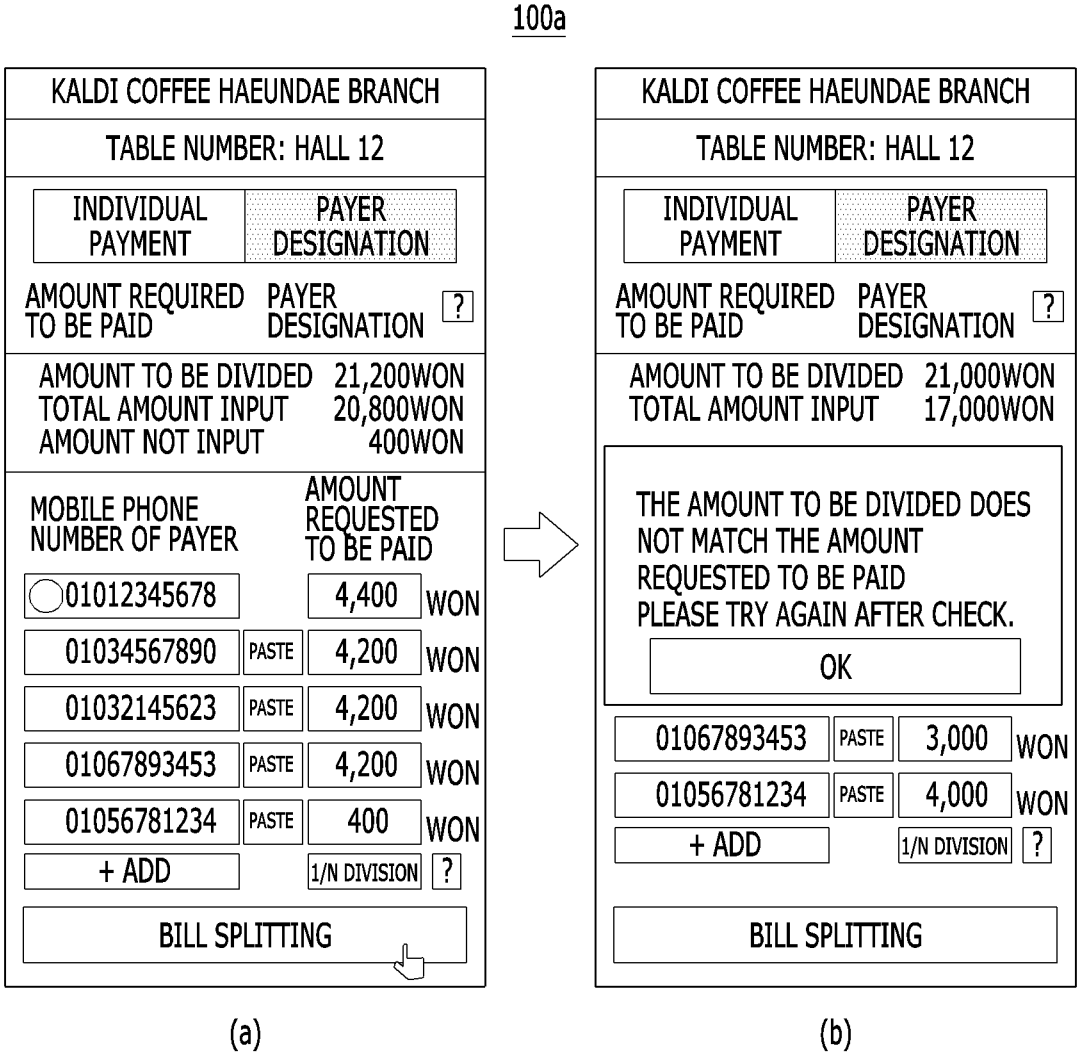

100a
KALDI COFFEE HAEUNDAE BRANCH
TABLE NUMBER: HALL 12
INDIVIDUAL PAYMENT
PAYER DESIGNATION
AMOUNT REQUIRED TO BE PAID
PAYER DESIGNATION
?
AMOUNT TO BE DIVIDED 21,200WON
TOTAL AMOUNT INPUT 20,800WON
AMOUNT NOT INPUT 400WON
MOBILE PHONE NUMBER OF PAYER
AMOUNT REQUESTED TO BE PAID
01012345678
4,400 WON
01034567890
PASTE
4,200 WON
01032145623
PASTE
4,200 WON
01067893453
PASTE
4,200 WON
01056781234
PASTE
400 WON
+ ADD
1/N DIVISION
?
BILL SPLITTING
(a)
KALDI COFFEE HAEUNDAE BRANCH
TABLE NUMBER: HALL 12
INDIVIDUAL PAYMENT
PAYER DESIGNATION
AMOUNT REQUIRED TO BE PAID
PAYER DESIGNATION
?
AMOUNT TO BE DIVIDED 21,000WON
TOTAL AMOUNT INPUT 17,000WON
THE AMOUNT TO BE DIVIDED DOES NOT MATCH THE AMOUNT REQUESTED TO BE PAID
PLEASE TRY AGAIN AFTER CHECK.
OK
01067893453
PASTE
3,000 WON
01056781234
PASTE
4,000 WON
+ ADD
1/N DIVISION
?
BILL SPLITTING
(b)

FIG. 12

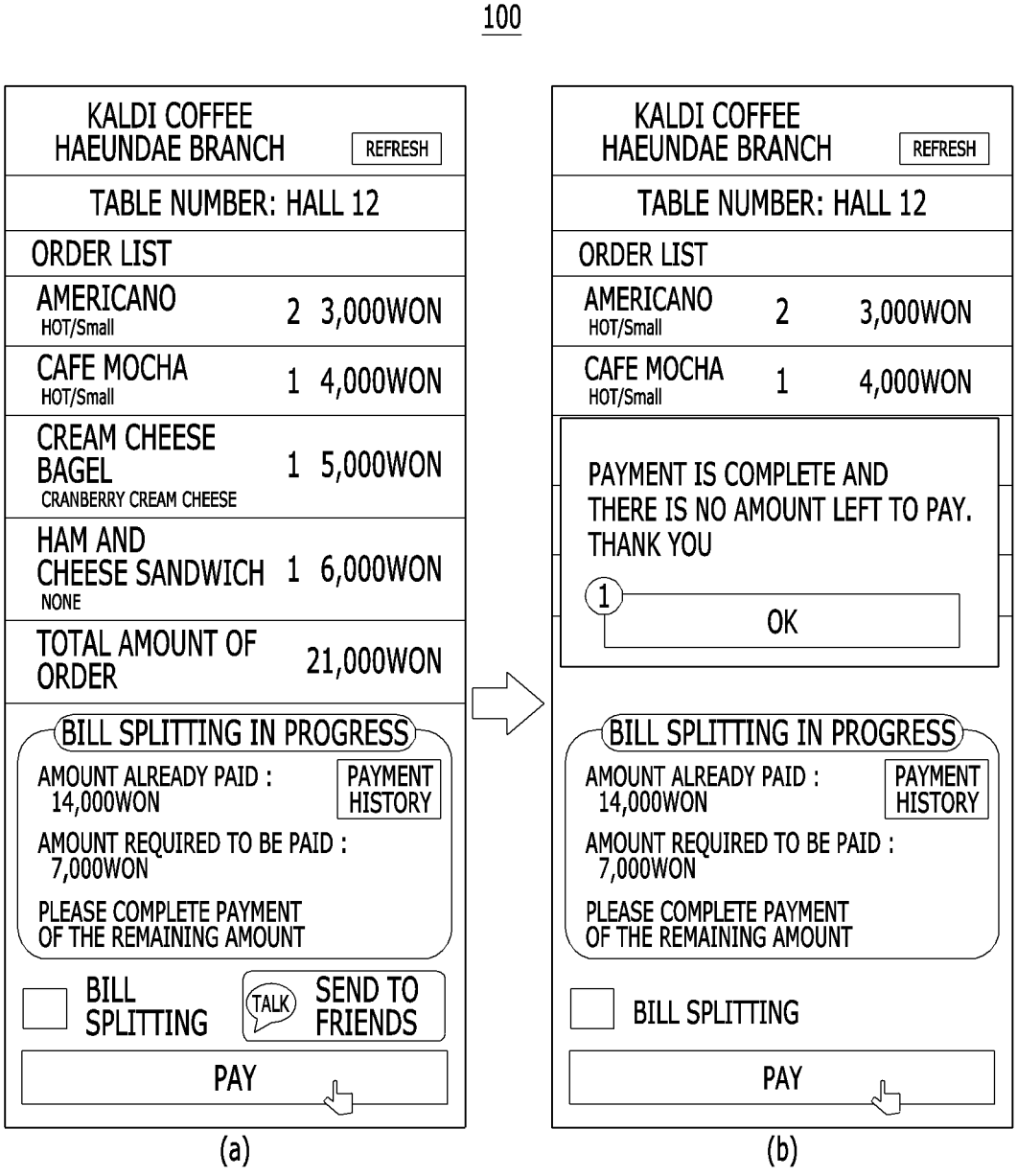

100
KALDI COFFEE
HAEUNDAE BRANCH
REFRESH
TABLE NUMBER: HALL 12
ORDER LIST
AMERICANO
HOT/Small
2 3,000WON
CAFE MOCHA
HOT/Small
1 4,000WON
CREAM CHEESE BAGEL
CRANBERRY CREAM CHEESE
1 5,000WON
HAM AND CHEESE SANDWICH
NONE
1 6,000WON
TOTAL AMOUNT OF ORDER
21,000WON
BILL SPLITTING IN PROGRESS
AMOUNT ALREADY PAID : 14,000WON
PAYMENT HISTORY
AMOUNT REQUIRED TO BE PAID : 7,000WON
PLEASE COMPLETE PAYMENT OF THE REMAINING AMOUNT
BILL SPLITTING
TALK
SEND TO FRIENDS
PAY
(a)
KALDI COFFEE
HAEUNDAE BRANCH
REFRESH
TABLE NUMBER: HALL 12
ORDER LIST
AMERICANO
HOT/Small
2 3,000WON
CAFE MOCHA
HOT/Small
1 4,000WON
PAYMENT IS COMPLETE AND THERE IS NO AMOUNT LEFT TO PAY. THANK YOU
1
OK
BILL SPLITTING IN PROGRESS
AMOUNT ALREADY PAID : 14,000WON
PAYMENT HISTORY
AMOUNT REQUIRED TO BE PAID : 7,000WON
PLEASE COMPLETE PAYMENT OF THE REMAINING AMOUNT
BILL SPLITTING
PAY
(b)

FIG. 13

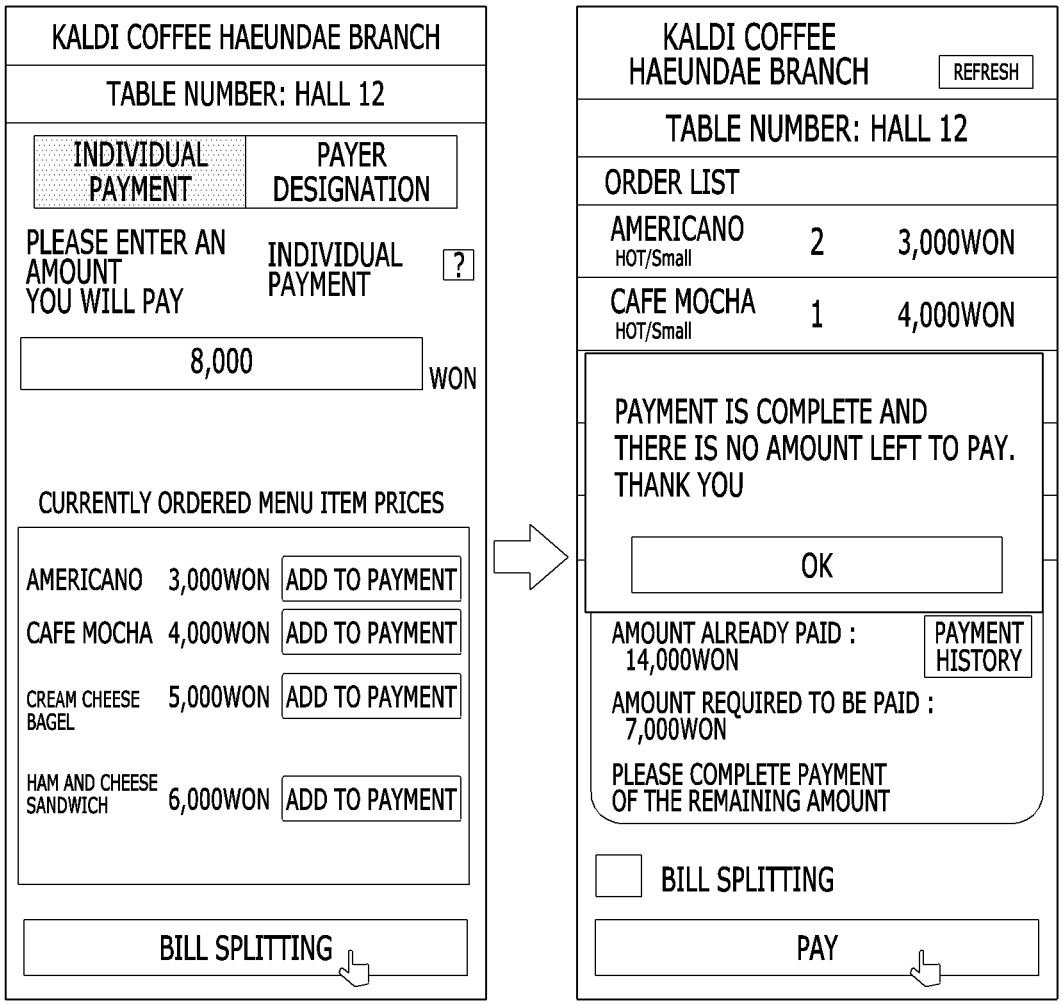
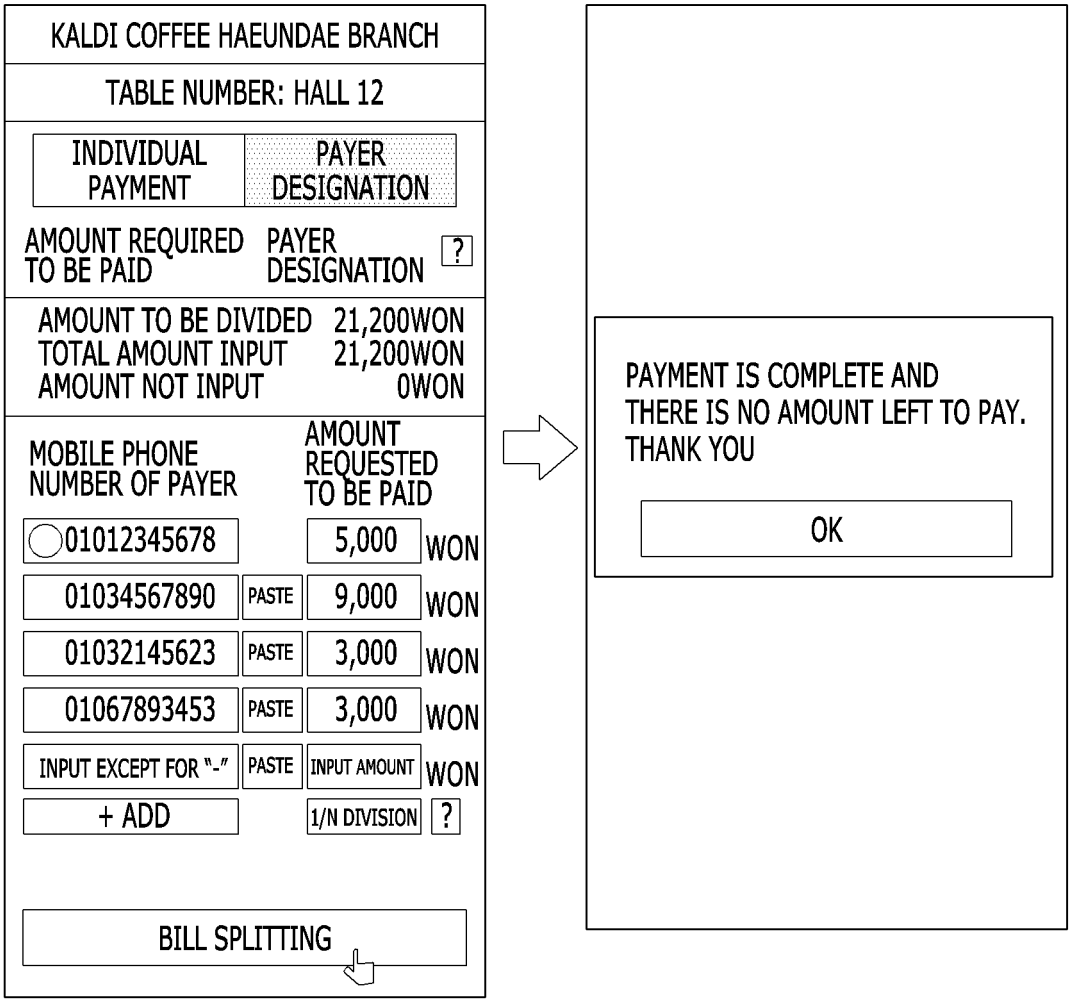

KALDI COFFEE HAEUNDAE BRANCH
TABLE NUMBER: HALL 12
INDIVIDUAL PAYMENT
PAYER DESIGNATION
PLEASE ENTER AN AMOUNT YOU WILL PAY
INDIVIDUAL PAYMENT
?
8,000
WON
CURRENTLY ORDERED MENU ITEM PRICES
AMERICANO 3,000WON ADD TO PAYMENT
CAFE MOCHA 4,000WON ADD TO PAYMENT
CREAM CHEESE BAGEL 5,000WON ADD TO PAYMENT
HAM AND CHEESE SANDWICH 6,000WON ADD TO PAYMENT
BILL SPLITTING
KALDI COFFEE HAEUNDAE BRANCH
REFRESH
TABLE NUMBER: HALL 12
ORDER LIST
AMERICANO HOT/Small 2 3,000WON
CAFE MOCHA HOT/Small 1 4,000WON
PAYMENT IS COMPLETE AND THERE IS NO AMOUNT LEFT TO PAY. THANK YOU
OK
AMOUNT ALREADY PAID : 14,000WON
PAYMENT HISTORY
AMOUNT REQUIRED TO BE PAID : 7,000WON
PLEASE COMPLETE PAYMENT OF THE REMAINING AMOUNT
BILL SPLITTING
PAY

FIG. 14


KALDI COFFEE HAEUNDAE BRANCH
TABLE NUMBER: HALL 12
INDIVIDUAL PAYMENT
PAYER DESIGNATION
AMOUNT REQUIRED TO BE PAID
PAYER DESIGNATION
?
AMOUNT TO BE DIVIDED 21,200WON
TOTAL AMOUNT INPUT 21,200WON
AMOUNT NOT INPUT 0WON
MOBILE PHONE NUMBER OF PAYER
AMOUNT REQUESTED TO BE PAID
01012345678
5,000 WON
01034567890
PASTE
9,000 WON
01032145623
PASTE
3,000 WON
01067893453
PASTE
3,000 WON
INPUT EXCEPT FOR "-"
PASTE
INPUT AMOUNT
WON
+ ADD
1/N DIVISION
?
BILL SPLITTING
PAYMENT IS COMPLETE AND THERE IS NO AMOUNT LEFT TO PAY. THANK YOU
OK