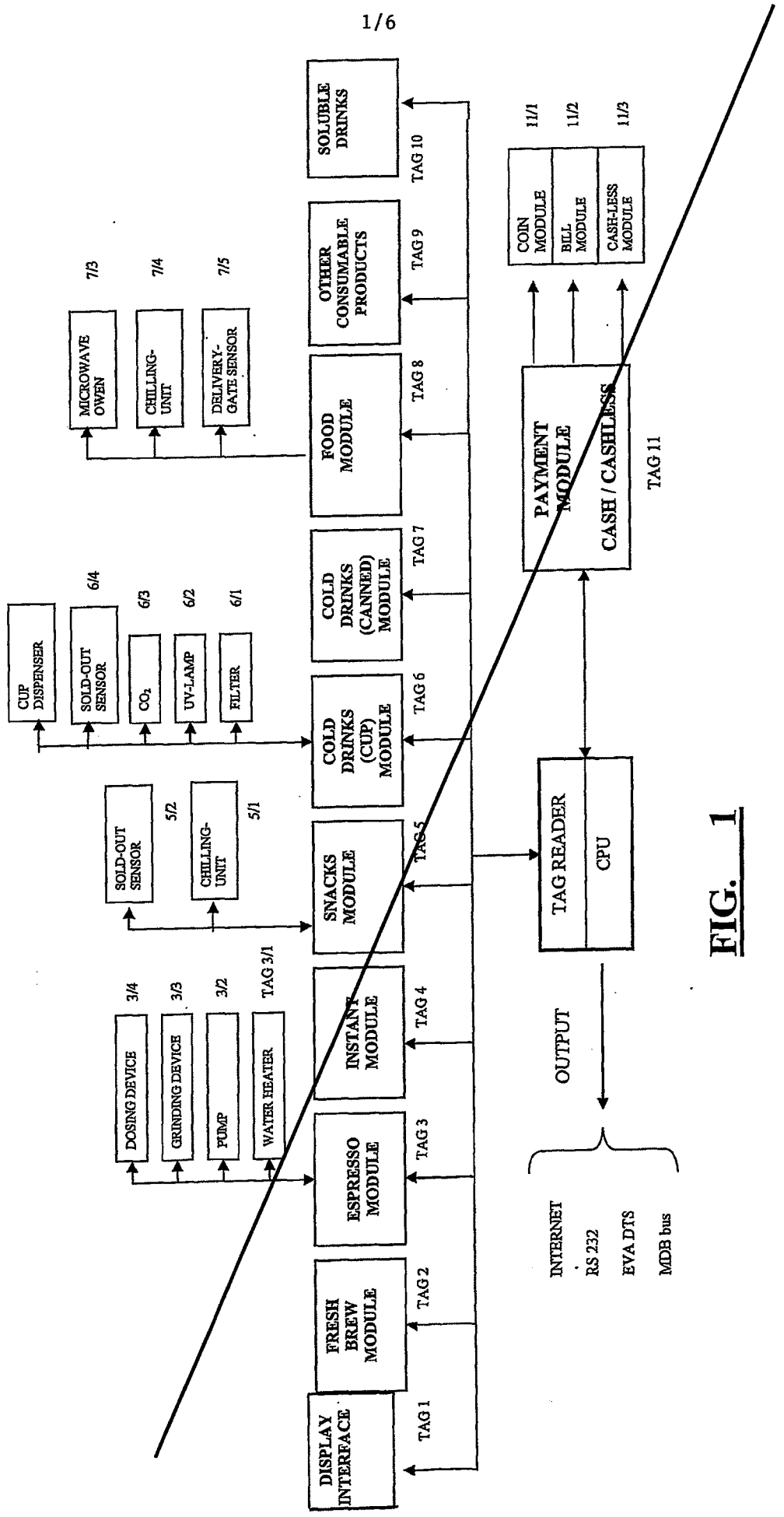

DISPLAY INTERFACE
FRESH BREW MODULE
ESPRESSO MODULE
INSTANT MODULE
SNACKS MODULE
COLD DRINKS (CUP) MODULE
COLD DRINKS (CANNED) MODULE
FOOD MODULE
OTHER CONSUMABLE PRODUCTS
SOLUBLE DRINKS
TAG 1
TAG 2
TAG 3
TAG 4
TAG 5
TAG 6
TAG 7
TAG 8
TAG 9
TAG 10
TAG 11
TAG 3/1
DOSING DEVICE
GRINDING DEVICE
PUMP
WATER HEATER
3/4
3/3
3/2
SOLD-OUT SENSOR
CHILLING-UNIT
5/2
5/1
CUP DISPENSER
SOLD-OUT SENSOR
CO_2
UV-LAMP
FILTER
6/4
6/3
6/2
6/1
MICROWAVE OWEN
CHILLING-UNIT
DELIVERY-GATE SENSOR
7/3
7/4
7/5
TAG READER
CPU
OUTPUT
INTERNET
RS 232
EVA DTS
MDB bus
PAYMENT MODULE
CASH / CASHLESS
COIN MODULE
BILL MODULE
CASH-LESS MODULE
11/1
11/2
11/3

FIG. 1

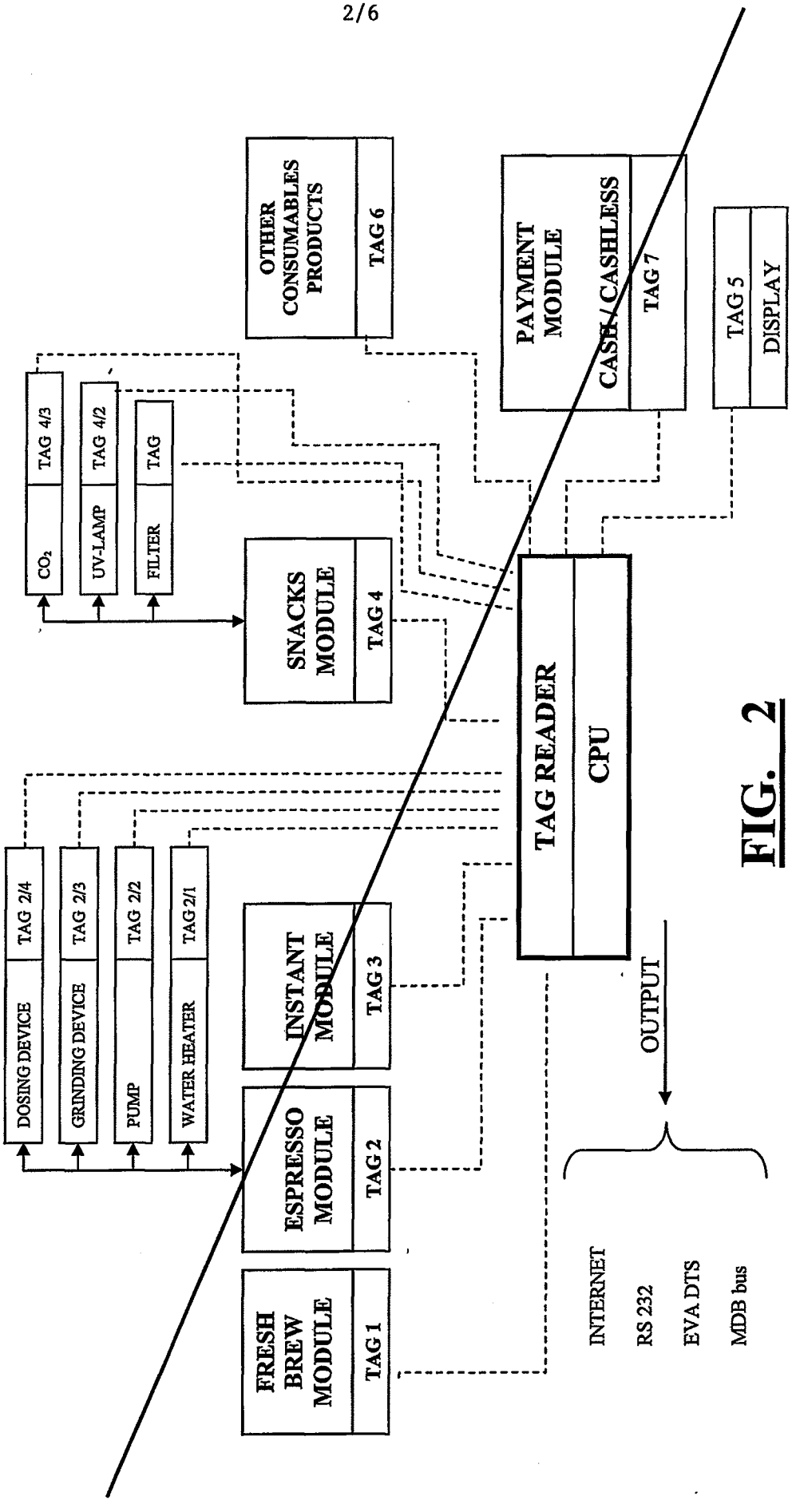

OTHER CONSUMABLES PRODUCTS
TAG 6
PAYMENT MODULE
CASH/CASHLESS
TAG 7
TAG 5
DISPLAY
CO_2
TAG 4/3
UV-LAMP
TAG 4/2
FILTER
TAG
SNACKS MODULE
TAG 4
TAG READER
CPU
DOSING DEVICE
TAG 2/4
GRINDING DEVICE
TAG 2/3
PUMP
TAG 2/2
WATER HEATER
TAG 2/1
INSTANT MODULE
TAG 3
ESPRESSO MODULE
TAG 2
FRESH BREW MODULE
TAG 1
OUTPUT
INTERNET
RS 232
EVA DTS
MDB bus

FIG. 2

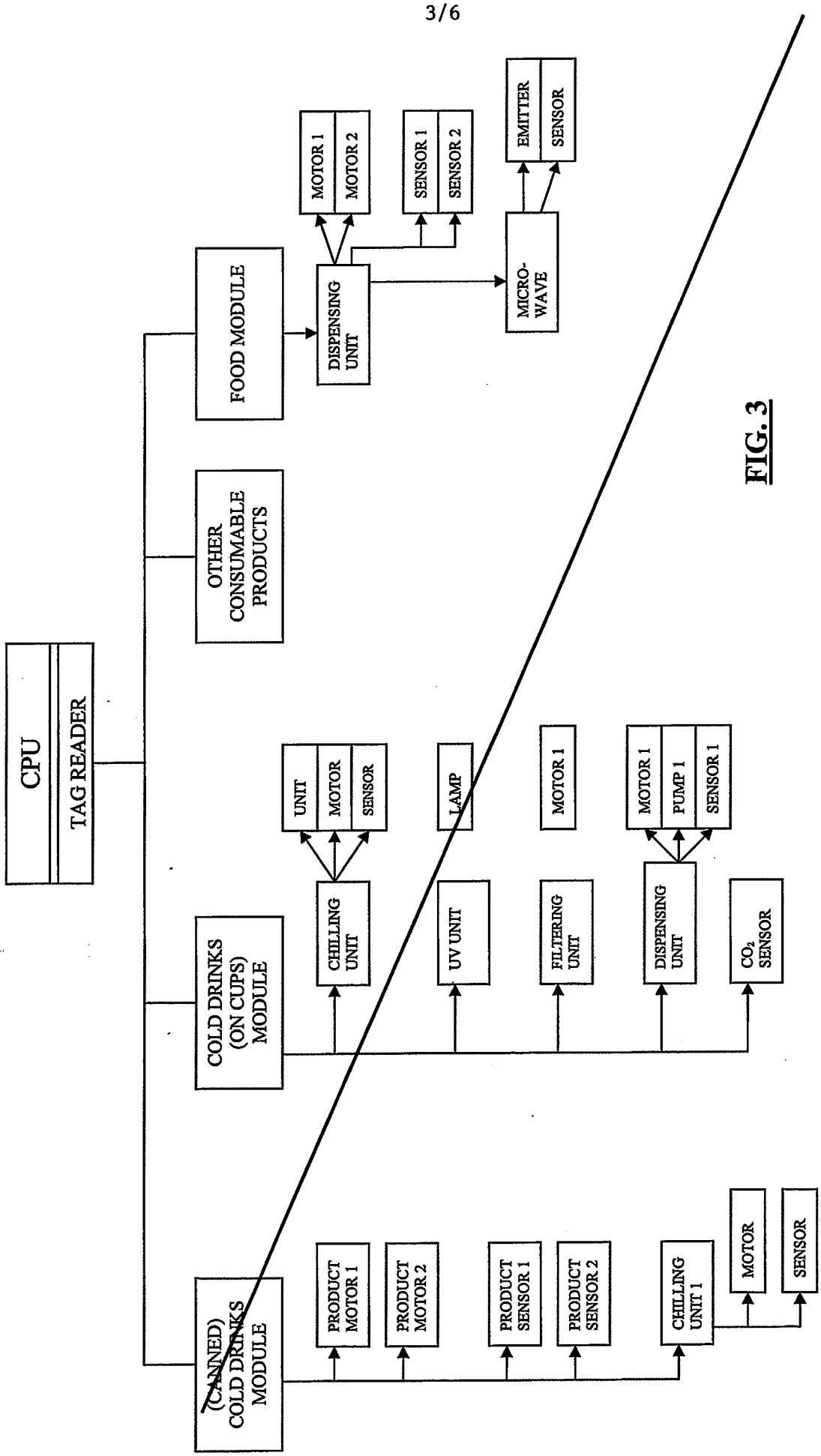

CPU
TAG READER
FOOD MODULE
DISPENSING UNIT
MOTOR 1
MOTOR 2
SENSOR 1
SENSOR 2
MICRO-WAVE
EMITTER
SENSOR
OTHER CONSUMABLE PRODUCTS
COLD DRINKS (ON CUPS) MODULE
UNIT
MOTOR
SENSOR
CHILLING UNIT
LAMP
UV UNIT
MOTOR 1
FILTERING UNIT
MOTOR 1
PUMP 1
SENSOR 1
DISPENSING UNIT
CO_2 SENSOR
(CANNED) COLD DRINKS MODULE
PRODUCT MOTOR 1
PRODUCT MOTOR 2
PRODUCT SENSOR 1
PRODUCT SENSOR 2
CHILLING UNIT 1
MOTOR
SENSOR

FIG. 3

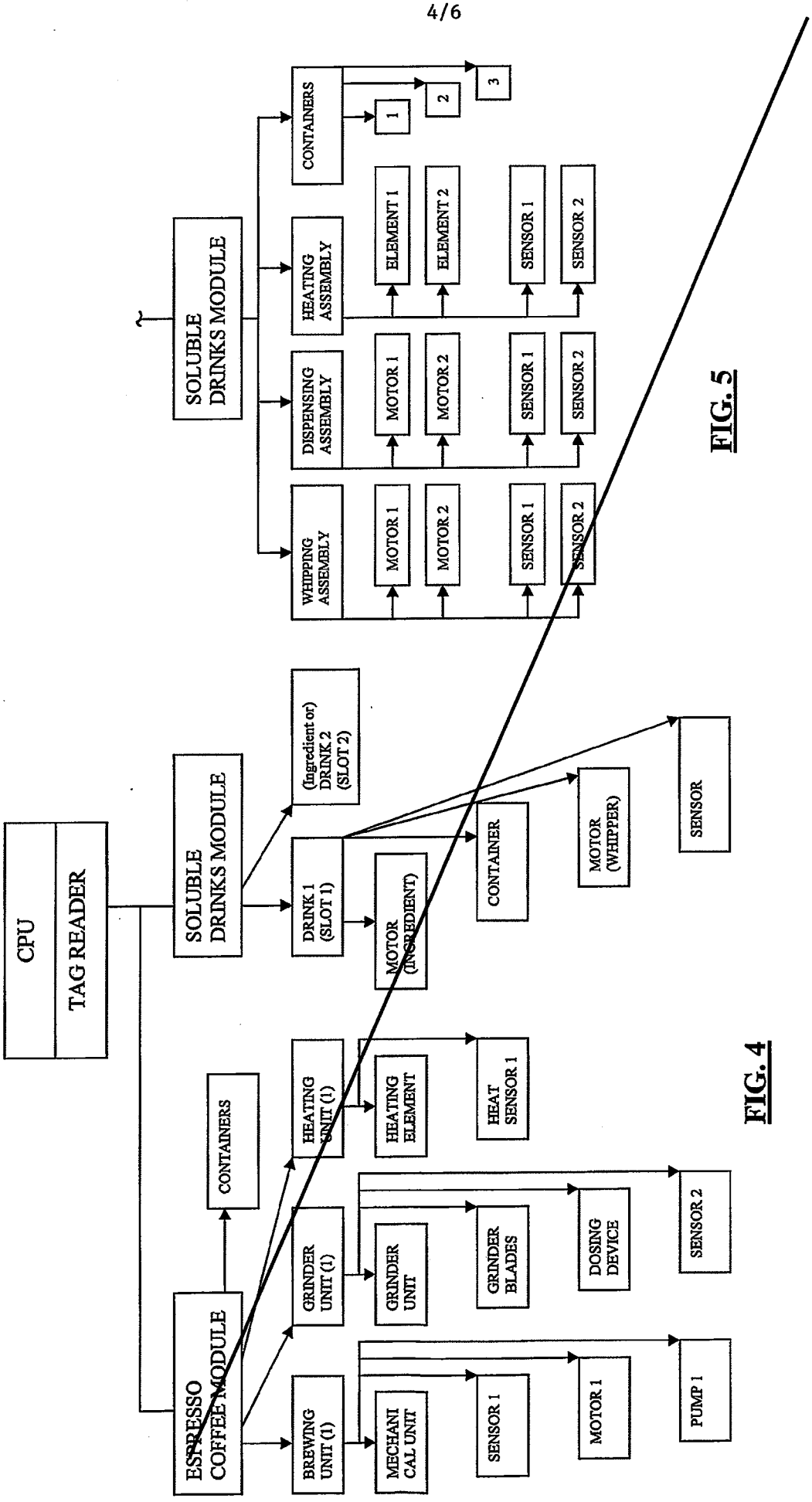

CPU
TAG READER
ESPRESSO COFFEE MODULE
CONTAINERS
BREWING UNIT (1)
MECHANI CAL UNIT
SENSOR 1
MOTOR 1
PUMP 1
GRINDER UNIT (1)
GRINDER UNIT
GRINDER BLADES
DOSING DEVICE
SENSOR 2
HEATING UNIT (1)
HEATING ELEMENT
HEAT SENSOR 1
SOLUBLE DRINKS MODULE
DRINK 1 (SLOT 1)
MOTOR (INGREDIENT)
CONTAINER
MOTOR (WHIPPER)
SENSOR
(Ingredient or) DRINK 2 (SLOT 2)
SOLUBLE DRINKS MODULE
WHIPPING ASSEMBLY
DISPENSING ASSEMBLY
HEATING ASSEMBLY
CONTAINERS
MOTOR 1
MOTOR 2
SENSOR 1
SENSOR 2
ELEMENT 1
ELEMENT 2
1
2
3

FIG. 4

FIG. 5

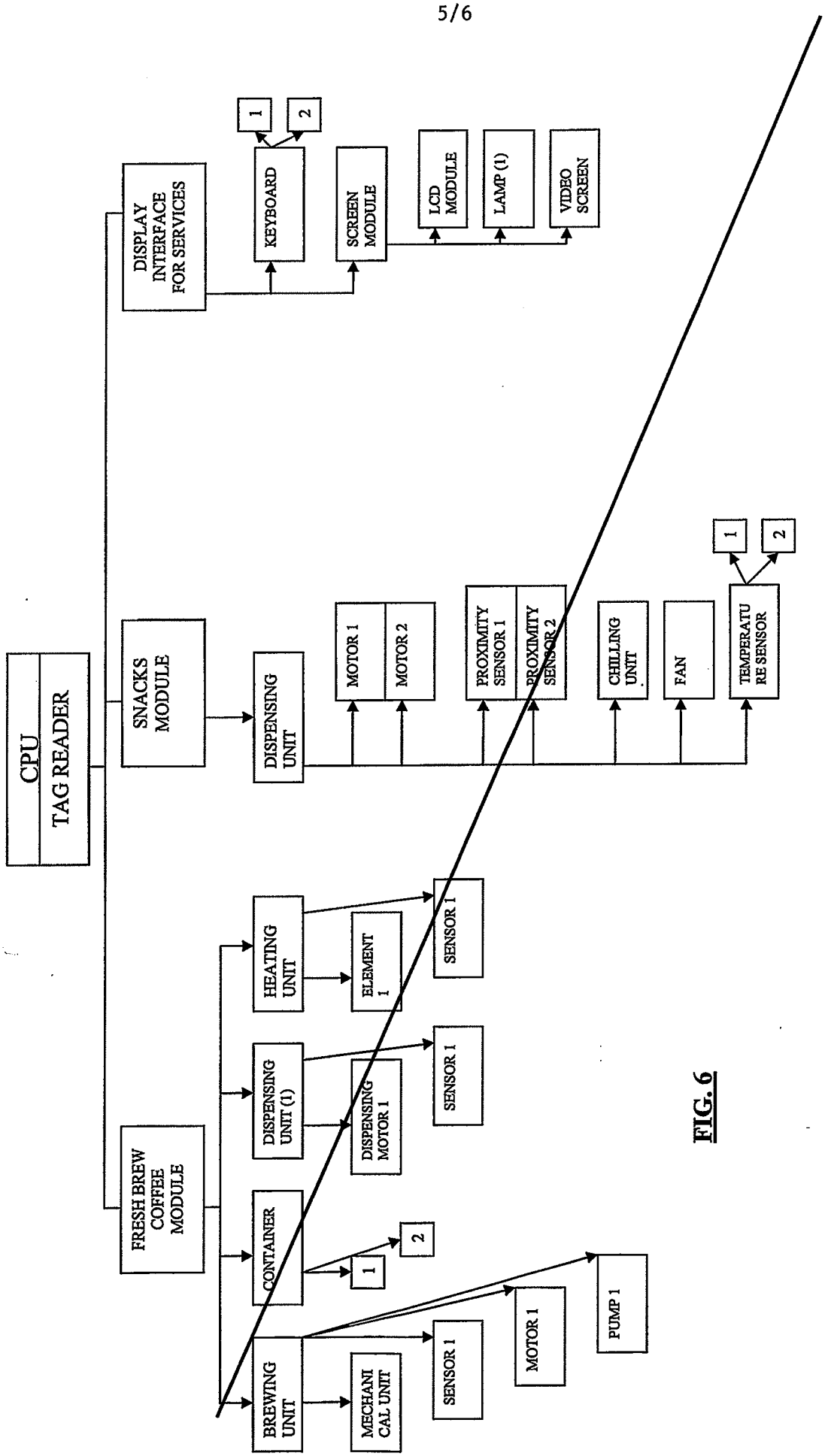

CPU
TAG READER
DISPLAY INTERFACE FOR SERVICES
KEYBOARD
1
2
SCREEN MODULE
LCD MODULE
LAMP (1)
VIDEO SCREEN
SNACKS MODULE
DISPENSING UNIT
MOTOR 1
MOTOR 2
PROXIMITY SENSOR 1
PROXIMITY SENSOR 2
CHILLING UNIT
FAN
TEMPERATURE SENSOR
1
2
FRESH BREW COFFEE MODULE
HEATING UNIT
ELEMENT 1
SENSOR 1
DISPENSING UNIT (1)
DISPENSING MOTOR 1
SENSOR 1
CONTAINER
1
2
BREWING UNIT
MECHANICAL UNIT
SENSOR 1
MOTOR 1
PUMP 1

FIG. 6

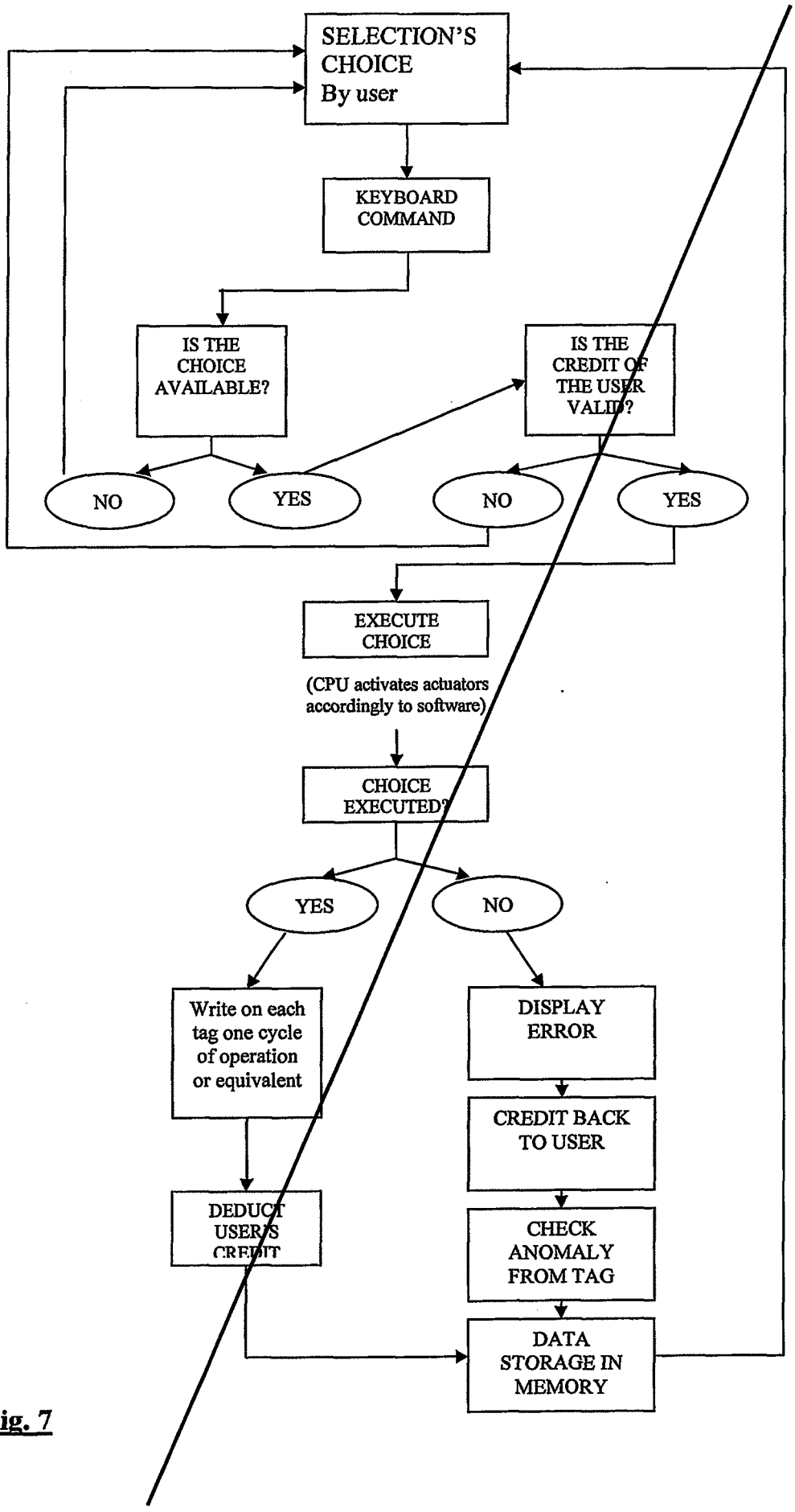

SELECTION'S CHOICE By user
KEYBOARD COMMAND
IS THE CHOICE AVAILABLE?
IS THE CREDIT OF THE USER VALID?
NO
YES
NO
YES
EXECUTE CHOICE
(CPU activates actuators accordingly to software)
CHOICE EXECUTED?
YES
NO
Write on each tag one cycle of operation or equivalent
DISPLAY ERROR
CREDIT BACK TO USER
DEDUCT USER'S CREDIT
CHECK ANOMALY FROM TAG
DATA STORAGE IN MEMORY

Fig. 7

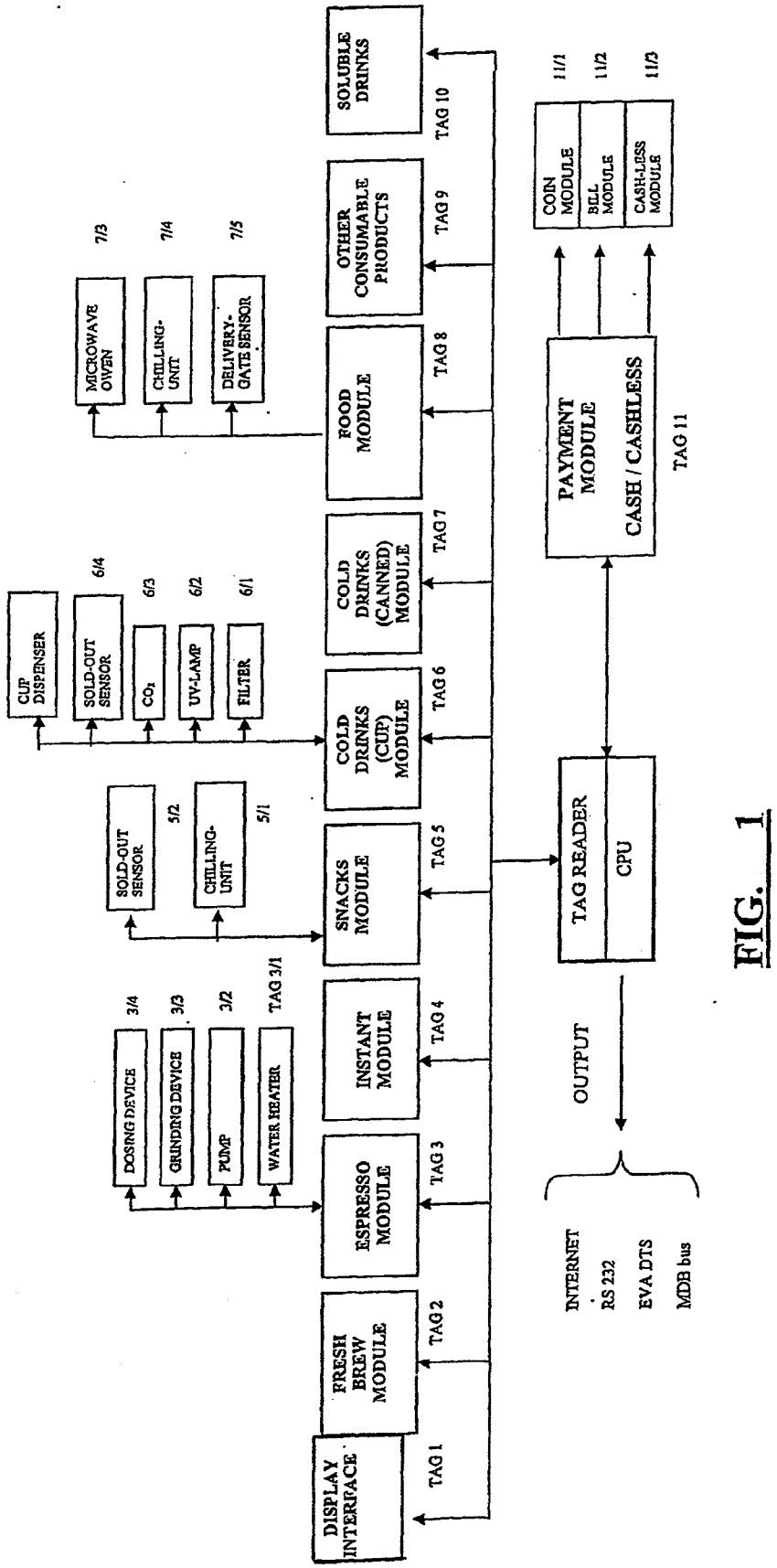

DISPLAY INTERFACE
FRESH BREW MODULE
ESPRESSO MODULE
INSTANT MODULE
SNACKS MODULE
COLD DRINKS (CUP) MODULE
COLD DRINKS (CANNED) MODULE
FOOD MODULE
OTHER CONSUMABLE PRODUCTS
SOLUBLE DRINKS
TAG READER
CPU
PAYMENT MODULE
CASH / CASHLESS
COIN MODULE
BILL MODULE
CASH-LESS MODULE
TAG 1
TAG 2
TAG 3
TAG 4
TAG 5
TAG 6
TAG 7
TAG 8
TAG 9
TAG 10
TAG 11
TAG 3/1
3/2
3/3
3/4
5/1
5/2
6/1
6/2
6/3
6/4
7/3
7/4
7/5
11/1
11/2
11/3
WATER HEATER
PUMP
GRINDING DEVICE
DOSING DEVICE
CHILLING-UNIT
SOLD-OUT SENSOR
FILTER
UV-LAMP
CO_2
SOLD-OUT SENSOR
CUP DISPENSER
DELIVERY-GATE SENSOR
CHILLING-UNIT
MICROWAVE OVEN
OUTPUT
INTERNET
RS 232
EVA DTS
MDB bus

FIG. 1

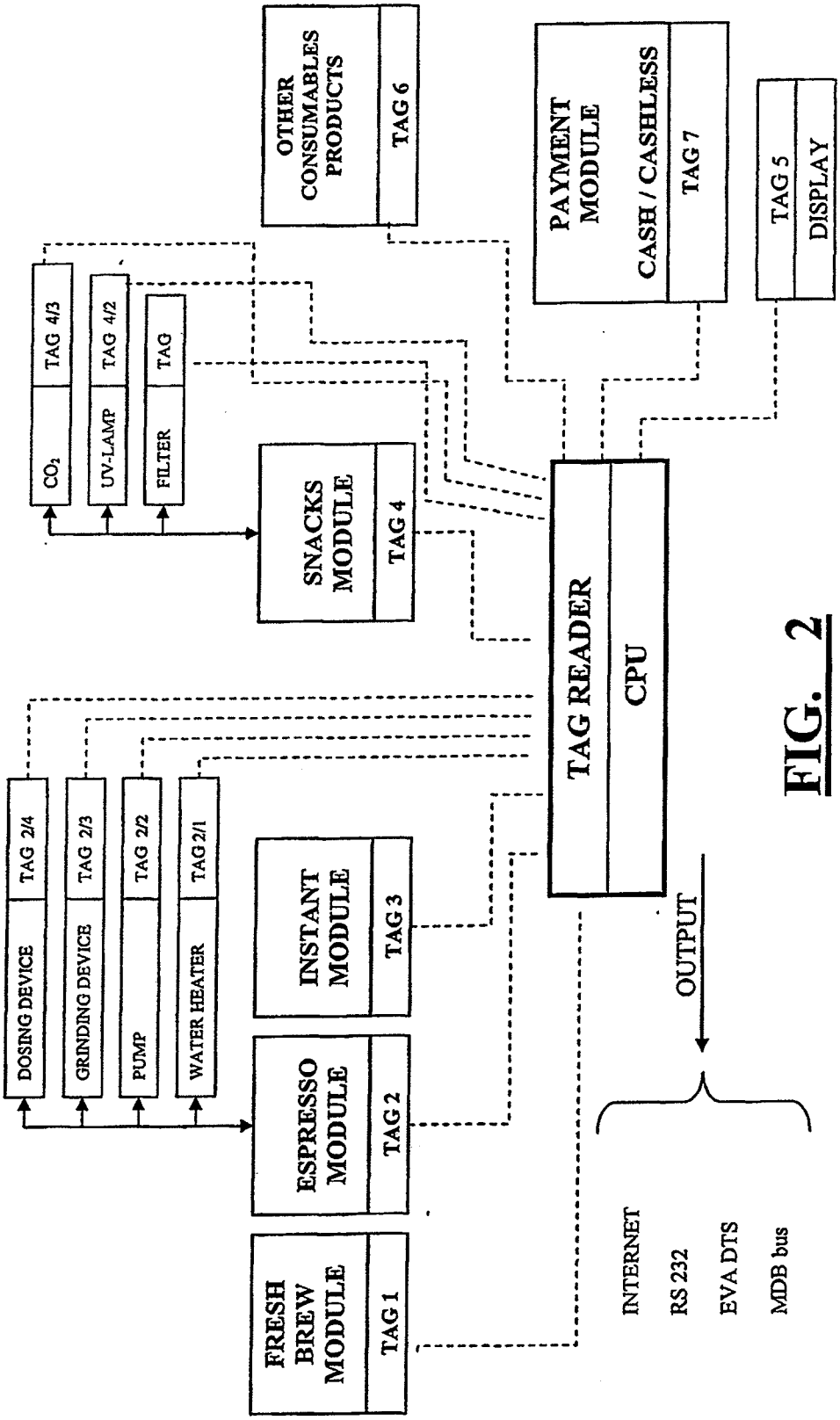

OTHER CONSUMABLES PRODUCTS
TAG 6
PAYMENT MODULE
CASH / CASHLESS
TAG 7
TAG 5
DISPLAY
CO_2
TAG 4/3
UV-LAMP
TAG 4/2
FILTER
TAG
SNACKS MODULE
TAG 4
TAG READER
CPU
DOSING DEVICE
TAG 2/4
GRINDING DEVICE
TAG 2/3
PUMP
TAG 2/2
WATER HEATER
TAG 2/1
INSTANT MODULE
TAG 3
ESPRESSO MODULE
TAG 2
FRESH BREW MODULE
TAG 1
OUTPUT
INTERNET
RS 232
EVA DTS
MDB bus

FIG. 2

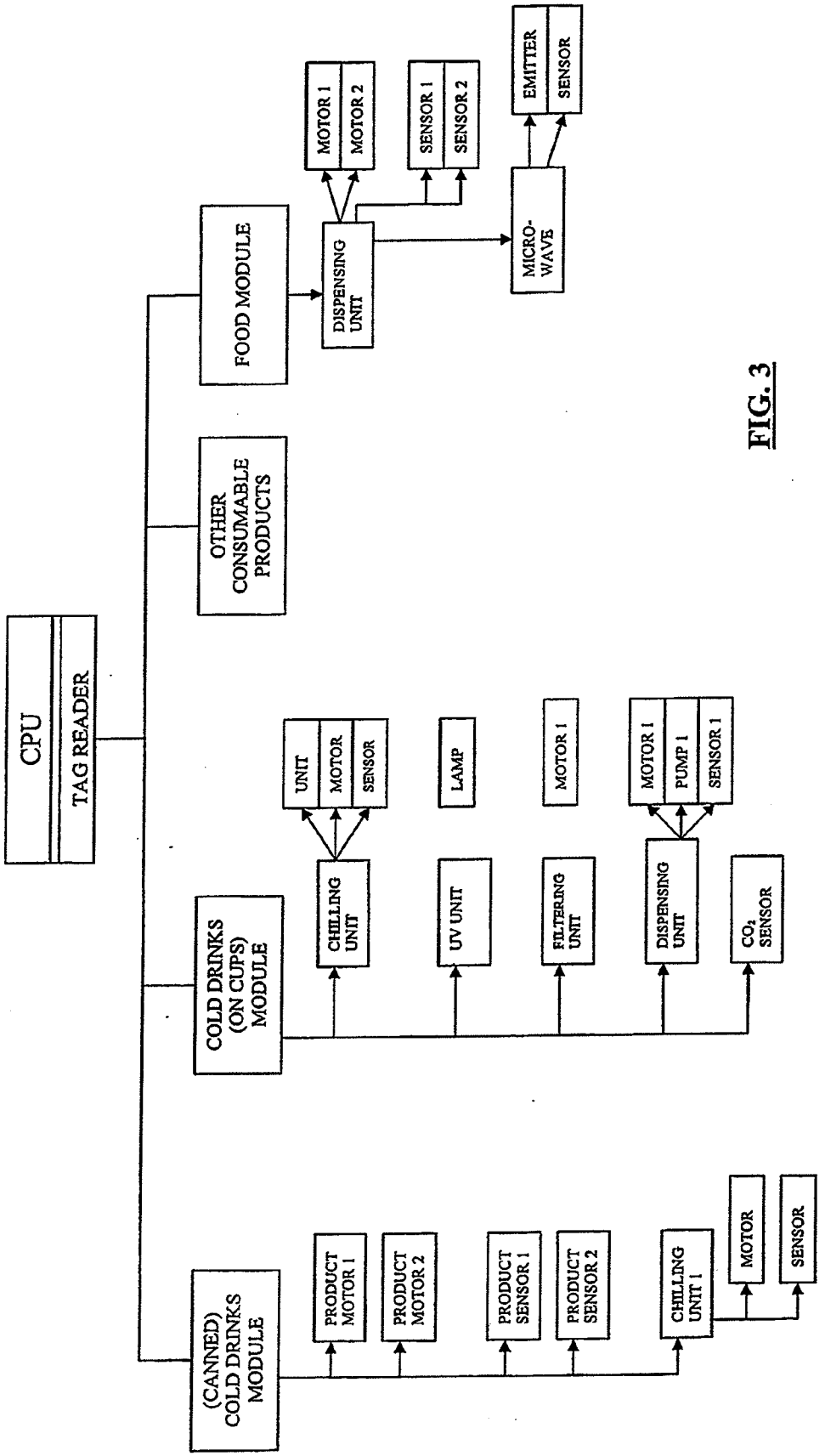

CPU
TAG READER
OTHER CONSUMABLE PRODUCTS
FOOD MODULE
DISPENSING UNIT
MOTOR 1
MOTOR 2
SENSOR 1
SENSOR 2
MICRO-WAVE
EMITTER
SENSOR
COLD DRINKS (ON CUPS) MODULE
CHILLING UNIT
UNIT
MOTOR
SENSOR
UV UNIT
LAMP
FILTERING UNIT
MOTOR 1
DISPENSING UNIT
MOTOR 1
PUMP 1
SENSOR 1
CO_2 SENSOR
(CANNED) COLD DRINKS MODULE
PRODUCT MOTOR 1
PRODUCT MOTOR 2
PRODUCT SENSOR 1
PRODUCT SENSOR 2
CHILLING UNIT 1
MOTOR
SENSOR

FIG. 3

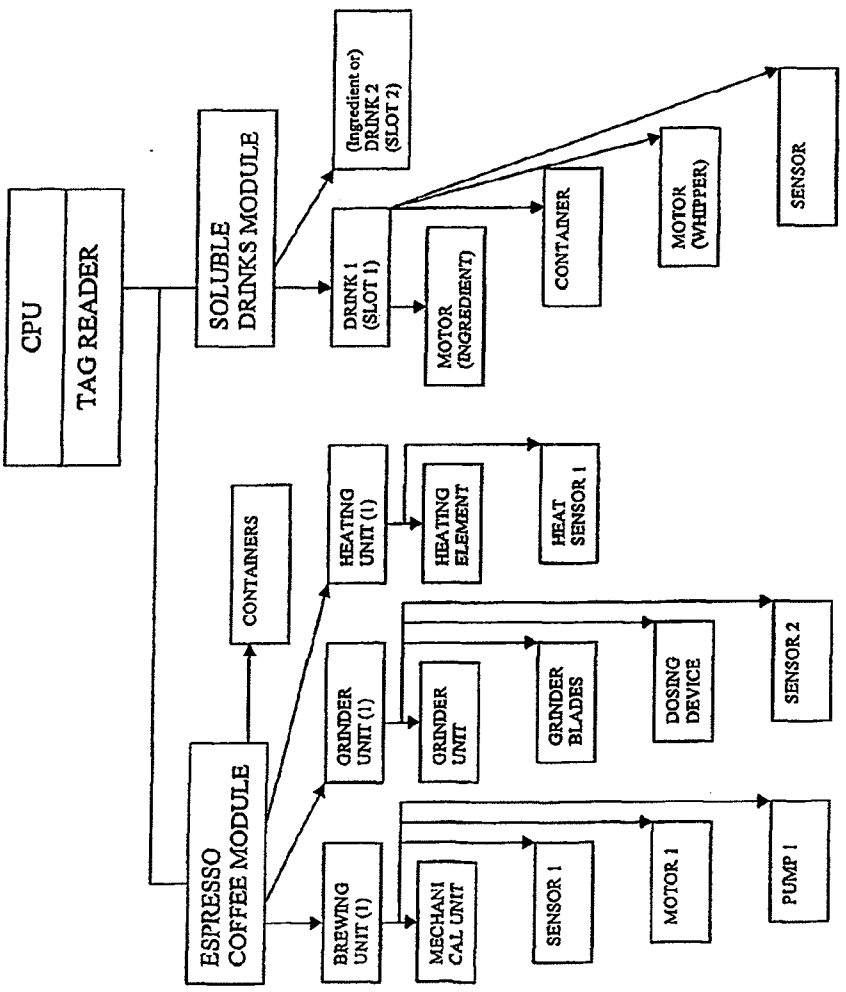

CPU
TAG READER
ESPRESSO COFFEE MODULE
BREWING UNIT (1)
MECHANI CAL UNIT
SENSOR 1
MOTOR 1
PUMP 1
GRINDER UNIT (1)
GRINDER UNIT
GRINDER BLADES
DOSING DEVICE
SENSOR 2
CONTAINERS
HEATING UNIT (1)
HEATING ELEMENT
HEAT SENSOR 1
SOLUBLE DRINKS MODULE
DRINK 1 (SLOT 1)
MOTOR (INGREDIENT)
CONTAINER
MOTOR (WHIPPER)
SENSOR
(Ingredient or) DRINK 2 (SLOT 2)

FIG. 4

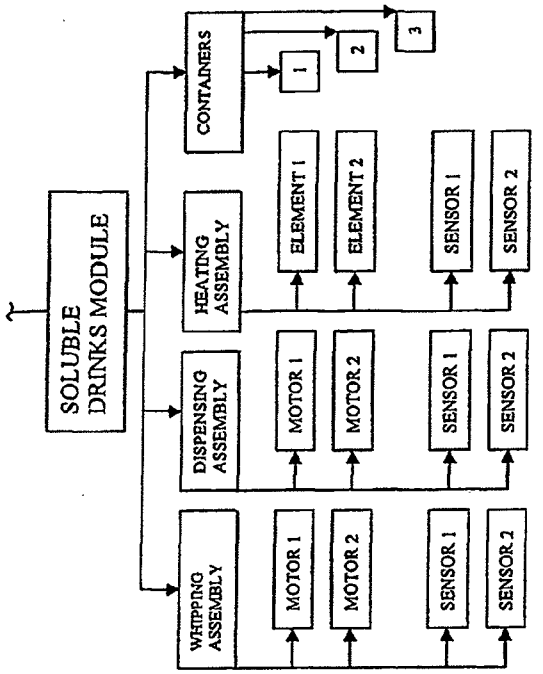

SOLUBLE DRINKS MODULE
WHIPPING ASSEMBLY
MOTOR 1
MOTOR 2
SENSOR 1
SENSOR 2
DISPENSING ASSEMBLY
MOTOR 1
MOTOR 2
SENSOR 1
SENSOR 2
HEATING ASSEMBLY
ELEMENT 1
ELEMENT 2
SENSOR 1
SENSOR 2
CONTAINERS
1
2
3

FIG. 5

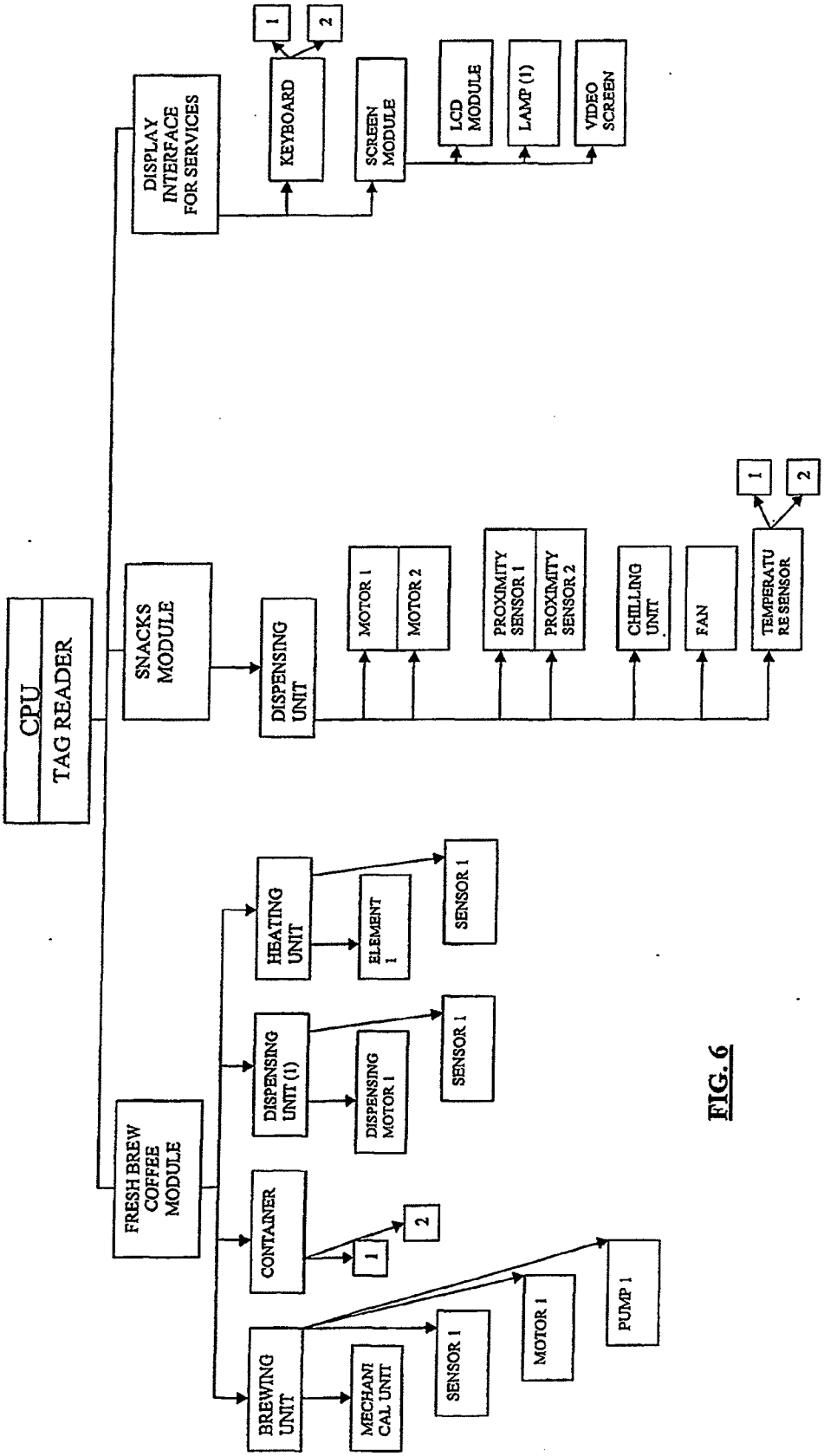

CPU
TAG READER
DISPLAY INTERFACE FOR SERVICES
KEYBOARD
1
2
SCREEN MODULE
LCD MODULE
LAMP (1)
VIDEO SCREEN
SNACKS MODULE
DISPENSING UNIT
MOTOR 1
MOTOR 2
PROXIMITY SENSOR 1
PROXIMITY SENSOR 2
CHILLING UNIT
FAN
TEMPERATURE SENSOR
1
2
FRESH BREW COFFEE MODULE
HEATING UNIT
ELEMENT 1
SENSOR 1
DISPENSING UNIT (1)
DISPENSING MOTOR 1
SENSOR 1
CONTAINER
1
2
BREWING UNIT
MECHANICAL UNIT
SENSOR 1
MOTOR 1
PUMP 1

FIG. 6

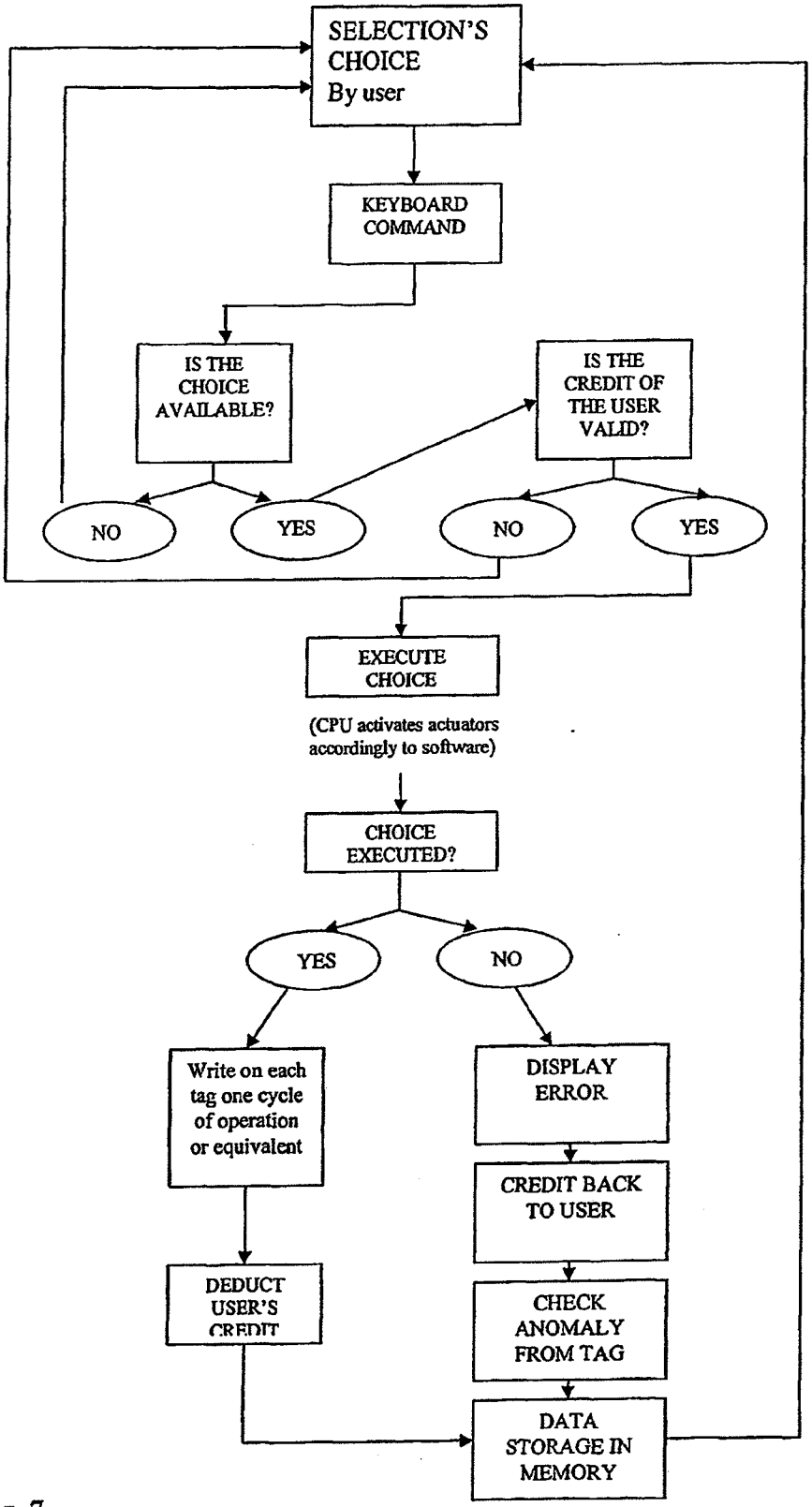

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DISPLAY ERROR
CREDIT BACK TO USER
DEDUCT USER'S CREDIT
CHECK ANOMALY FROM TAG
DATA STORAGE IN MEMORY

Fig. 7