DRAWINGS

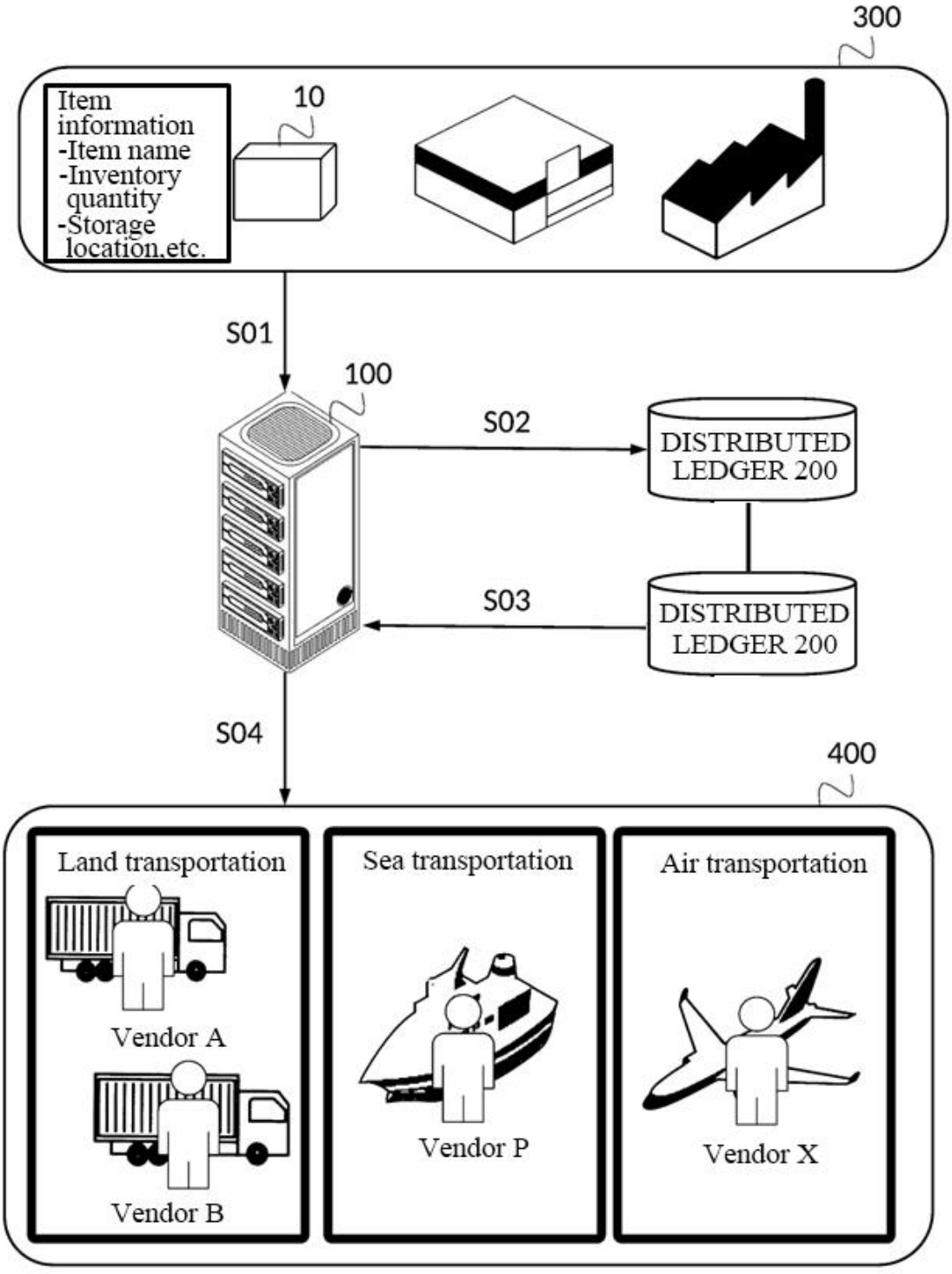


FIG. 1

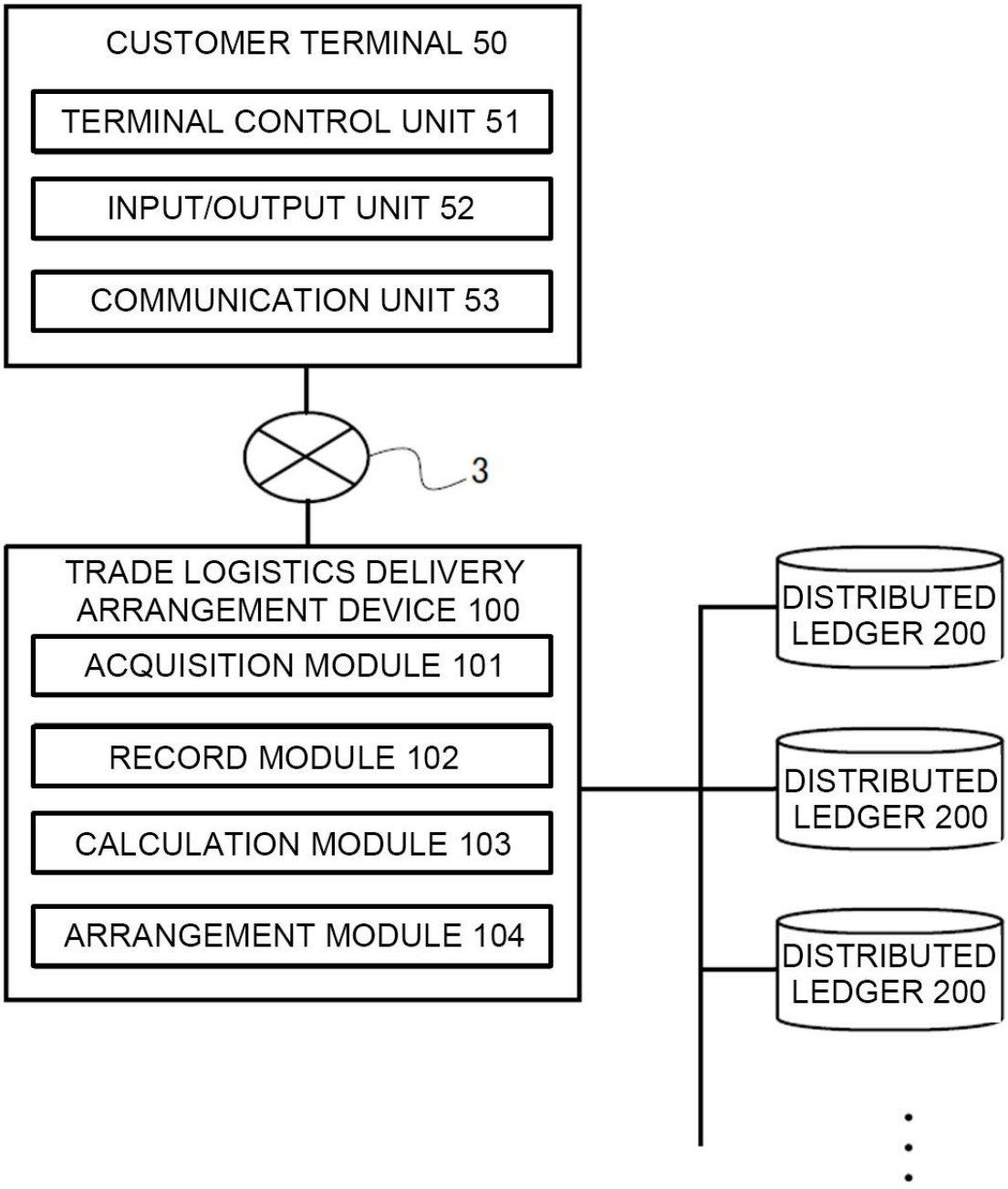

CUSTOMER TERMINAL 50
TERMINAL CONTROL UNIT 51
INPUT/OUTPUT UNIT 52
COMMUNICATION UNIT 53
3
TRADE LOGISTICS DELIVERY ARRANGEMENT DEVICE 100
ACQUISITION MODULE 101
RECORD MODULE 102
CALCULATION MODULE 103
ARRANGEMENT MODULE 104
DISTRIBUTED LEDGER 200
DISTRIBUTED LEDGER 200
DISTRIBUTED LEDGER 200

FIG. 2

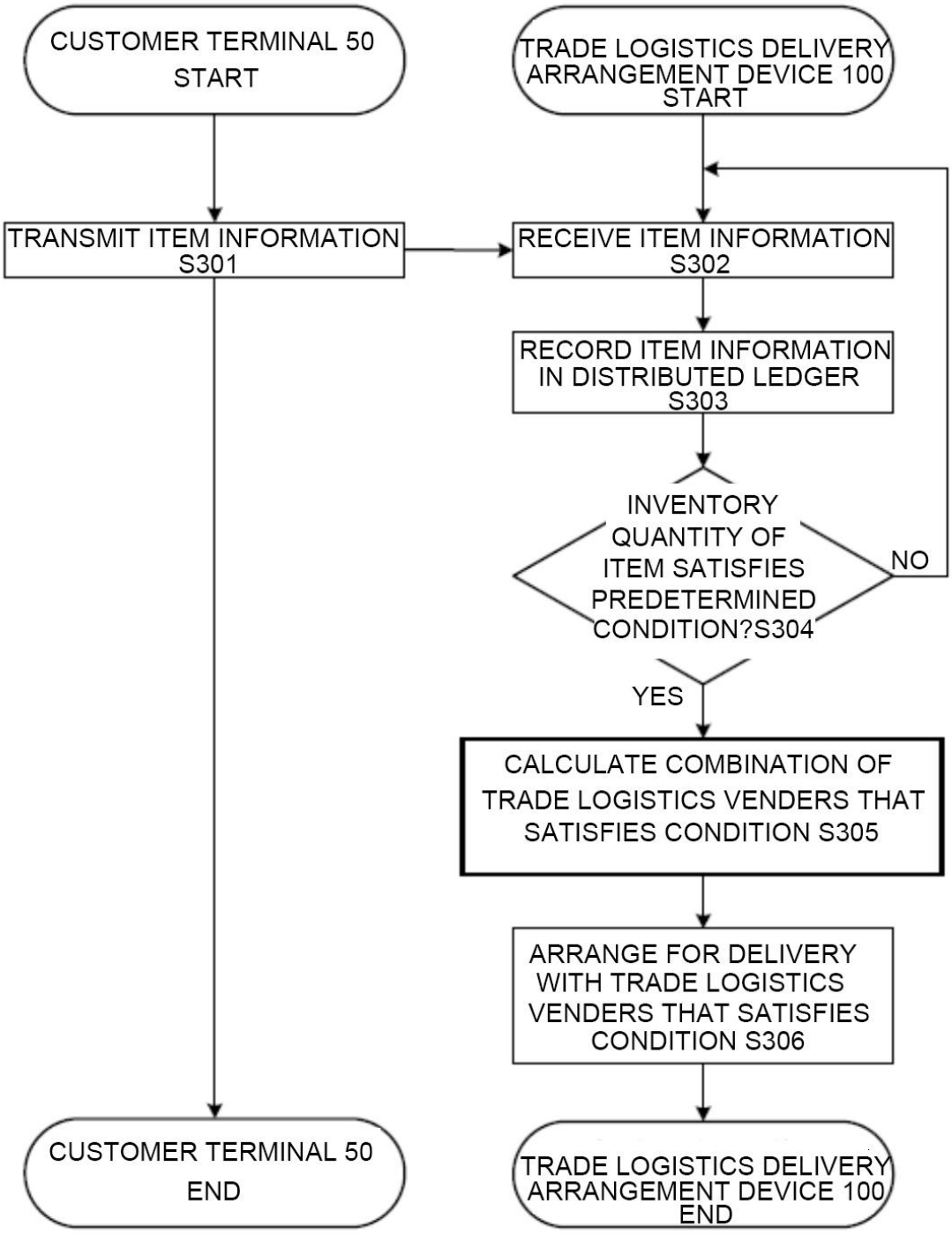

CUSTOMER TERMINAL 50
START
TRADE LOGISTICS DELIVERY ARRANGEMENT DEVICE 100
START
TRANSMIT ITEM INFORMATION
S301
RECEIVE ITEM INFORMATION
S302
RECORD ITEM INFORMATION IN DISTRIBUTED LEDGER
S303
INVENTORY QUANTITY OF ITEM SATISFIES PREDETERMINED CONDITION?S304
NO
YES
CALCULATE COMBINATION OF TRADE LOGISTICS VENDERS THAT SATISFIES CONDITION S305
ARRANGE FOR DELIVERY WITH TRADE LOGISTICS VENDERS THAT SATISFIES CONDITION S306
CUSTOMER TERMINAL 50
END
TRADE LOGISTICS DELIVERY ARRANGEMENT DEVICE 100
END

FIG. 3

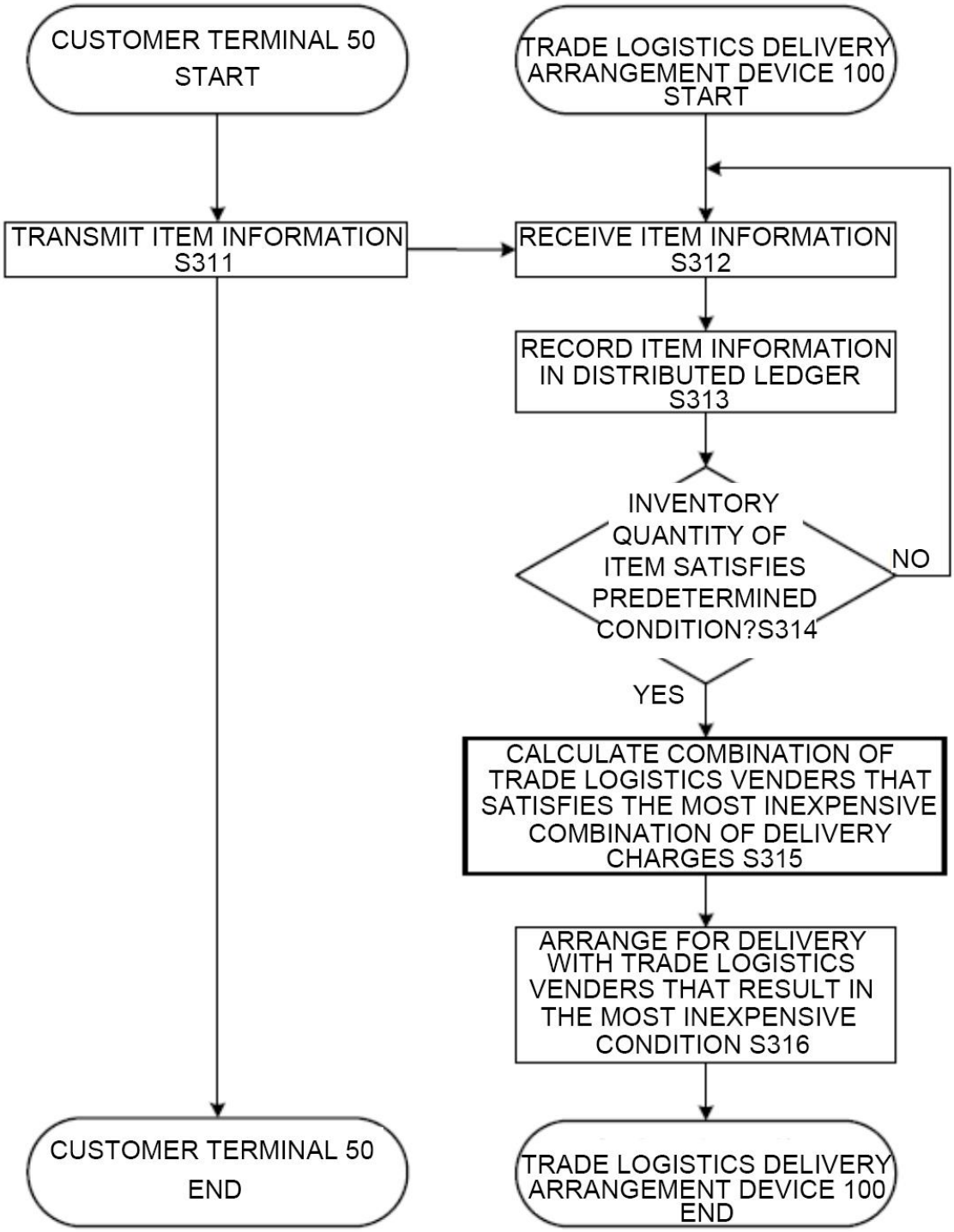

CUSTOMER TERMINAL 50
START
TRADE LOGISTICS DELIVERY ARRANGEMENT DEVICE 100
START
TRANSMIT ITEM INFORMATION
S311
RECEIVE ITEM INFORMATION
S312
RECORD ITEM INFORMATION IN DISTRIBUTED LEDGER
S313
INVENTORY QUANTITY OF ITEM SATISFIES PREDETERMINED CONDITION?S314
NO
YES
CALCULATE COMBINATION OF TRADE LOGISTICS VENDERS THAT SATISFIES THE MOST INEXPENSIVE COMBINATION OF DELIVERY CHARGES S315
ARRANGE FOR DELIVERY WITH TRADE LOGISTICS VENDERS THAT RESULT IN THE MOST INEXPENSIVE CONDITION S316
CUSTOMER TERMINAL 50
END
TRADE LOGISTICS DELIVERY ARRANGEMENT DEVICE 100
END

FIG. 4

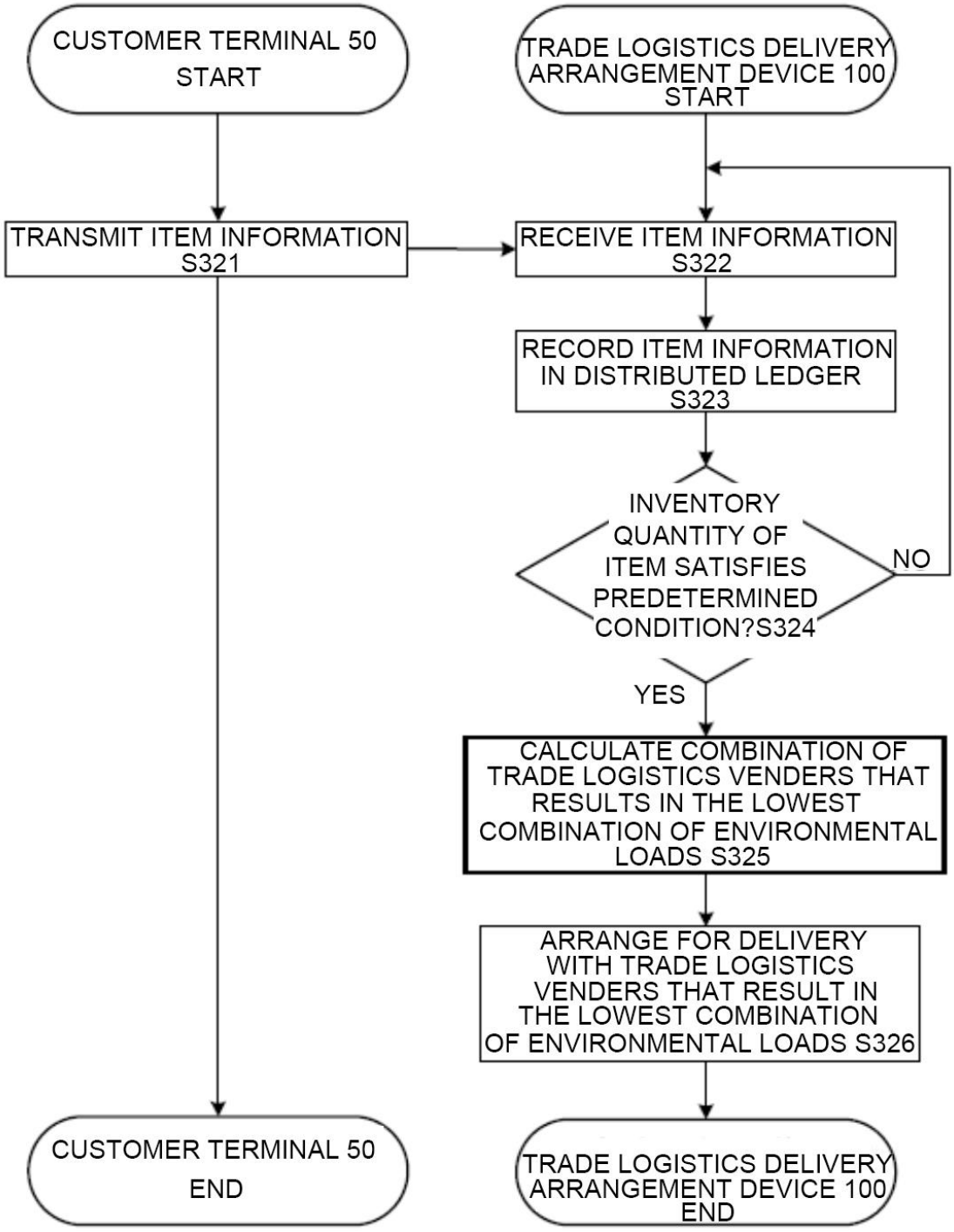

CUSTOMER TERMINAL 50
START
TRADE LOGISTICS DELIVERY ARRANGEMENT DEVICE 100
START
TRANSMIT ITEM INFORMATION S321
RECEIVE ITEM INFORMATION S322
RECORD ITEM INFORMATION IN DISTRIBUTED LEDGER S323
INVENTORY QUANTITY OF ITEM SATISFIES PREDETERMINED CONDITION?S324
NO
YES
CALCULATE COMBINATION OF TRADE LOGISTICS VENDERS THAT RESULTS IN THE LOWEST COMBINATION OF ENVIRONMENTAL LOADS S325
ARRANGE FOR DELIVERY WITH TRADE LOGISTICS VENDERS THAT RESULT IN THE LOWEST COMBINATION OF ENVIRONMENTAL LOADS S326
CUSTOMER TERMINAL 50
END
TRADE LOGISTICS DELIVERY ARRANGEMENT DEVICE 100
END

FIG. 5

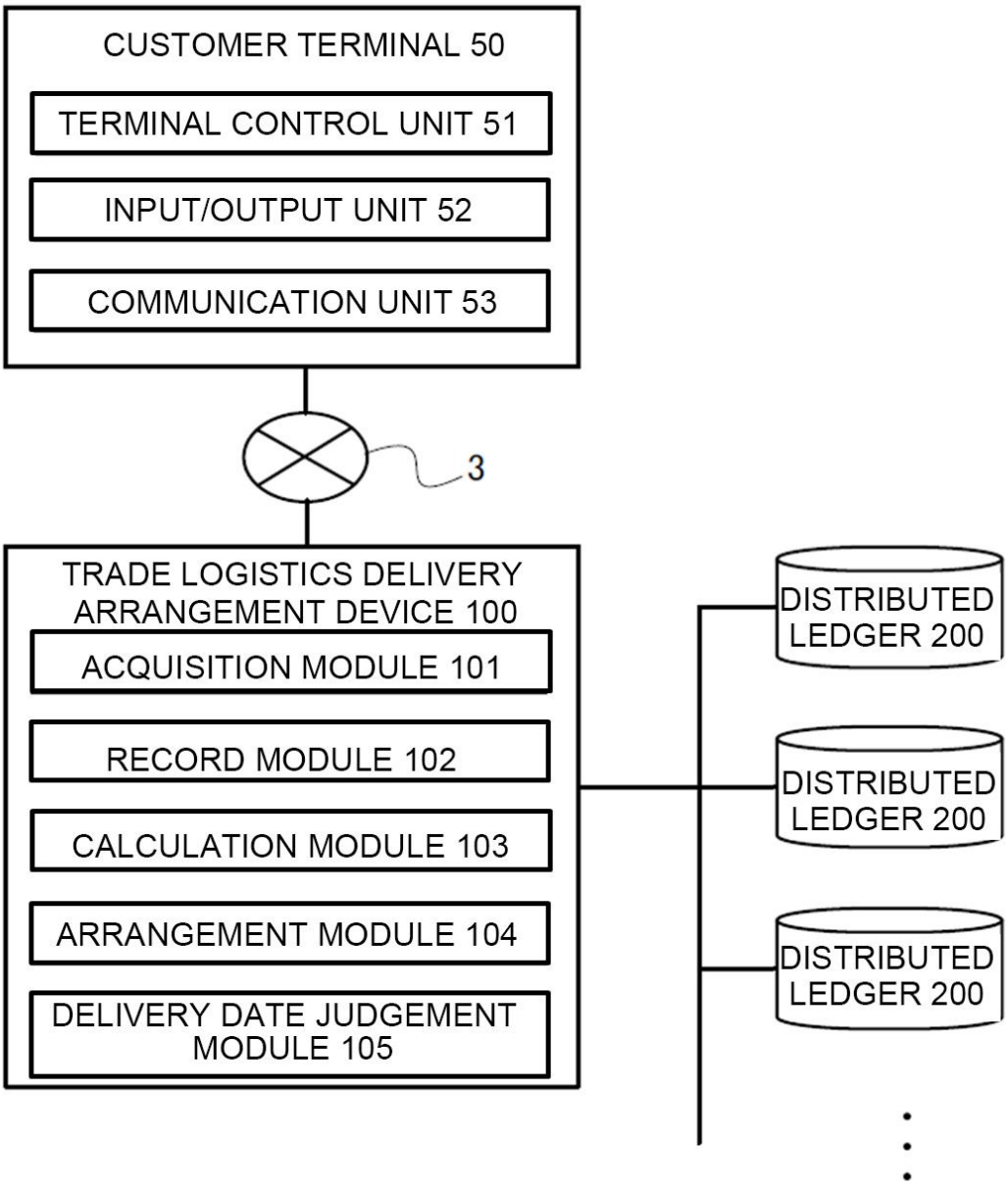

CUSTOMER TERMINAL 50
TERMINAL CONTROL UNIT 51
INPUT/OUTPUT UNIT 52
COMMUNICATION UNIT 53
3
TRADE LOGISTICS DELIVERY ARRANGEMENT DEVICE 100
ACQUISITION MODULE 101
RECORD MODULE 102
CALCULATION MODULE 103
ARRANGEMENT MODULE 104
DELIVERY DATE JUDGEMENT MODULE 105
DISTRIBUTED LEDGER 200
DISTRIBUTED LEDGER 200
DISTRIBUTED LEDGER 200

FIG. 6

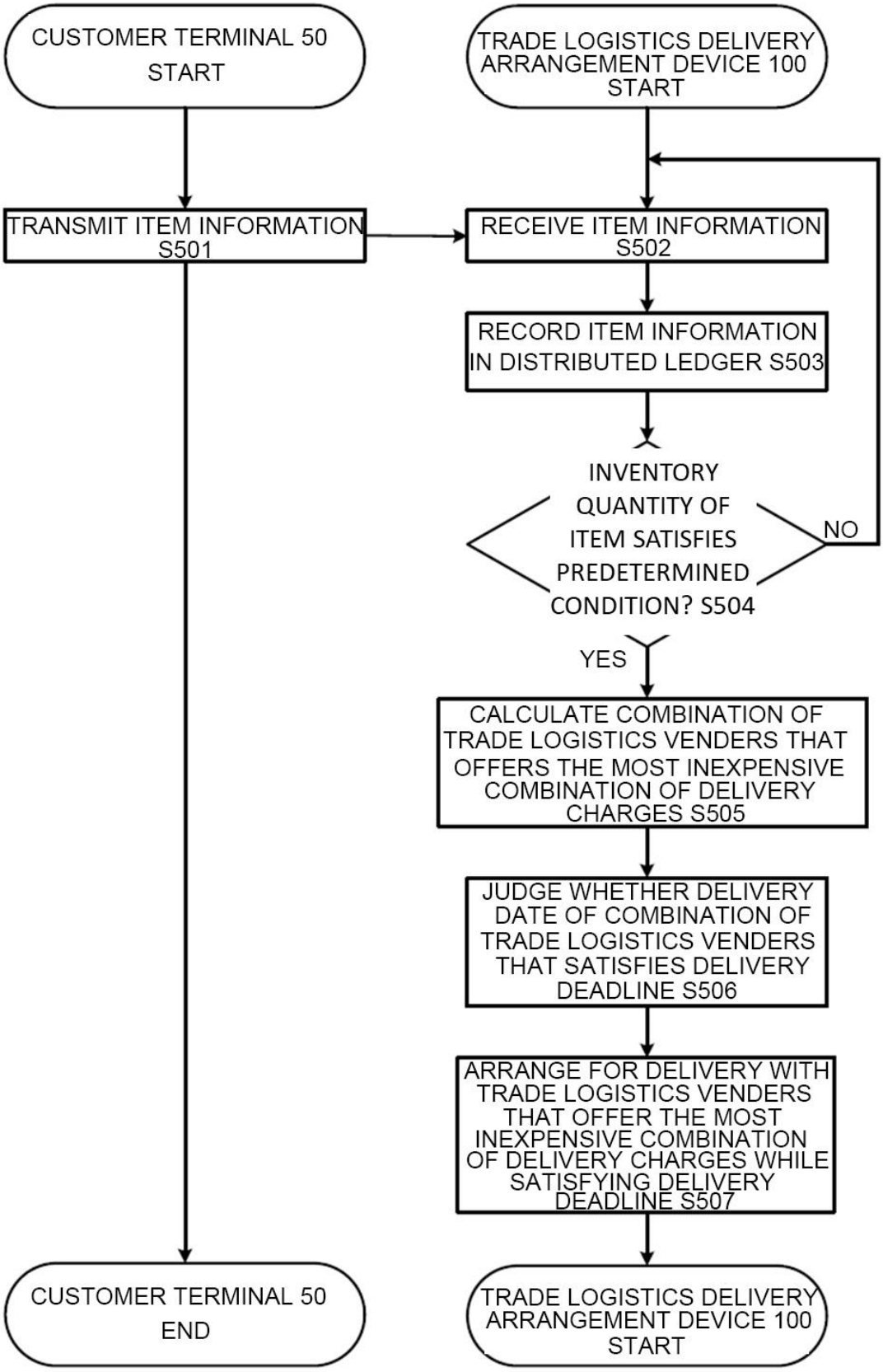

CUSTOMER TERMINAL 50
START
TRADE LOGISTICS DELIVERY ARRANGEMENT DEVICE 100
START
TRANSMIT ITEM INFORMATION S501
RECEIVE ITEM INFORMATION S502
RECORD ITEM INFORMATION IN DISTRIBUTED LEDGER S503
INVENTORY QUANTITY OF ITEM SATISFIES PREDETERMINED CONDITION? S504
NO
YES
CALCULATE COMBINATION OF TRADE LOGISTICS VENDERS THAT OFFERS THE MOST INEXPENSIVE COMBINATION OF DELIVERY CHARGES S505
JUDGE WHETHER DELIVERY DATE OF COMBINATION OF TRADE LOGISTICS VENDERS THAT SATISFIES DELIVERY DEADLINE S506
ARRANGE FOR DELIVERY WITH TRADE LOGISTICS VENDERS THAT OFFER THE MOST INEXPENSIVE COMBINATION OF DELIVERY CHARGES WHILE SATISFYING DELIVERY DEADLINE S507
CUSTOMER TERMINAL 50
END
TRADE LOGISTICS DELIVERY ARRANGEMENT DEVICE 100
START

FIG. 7

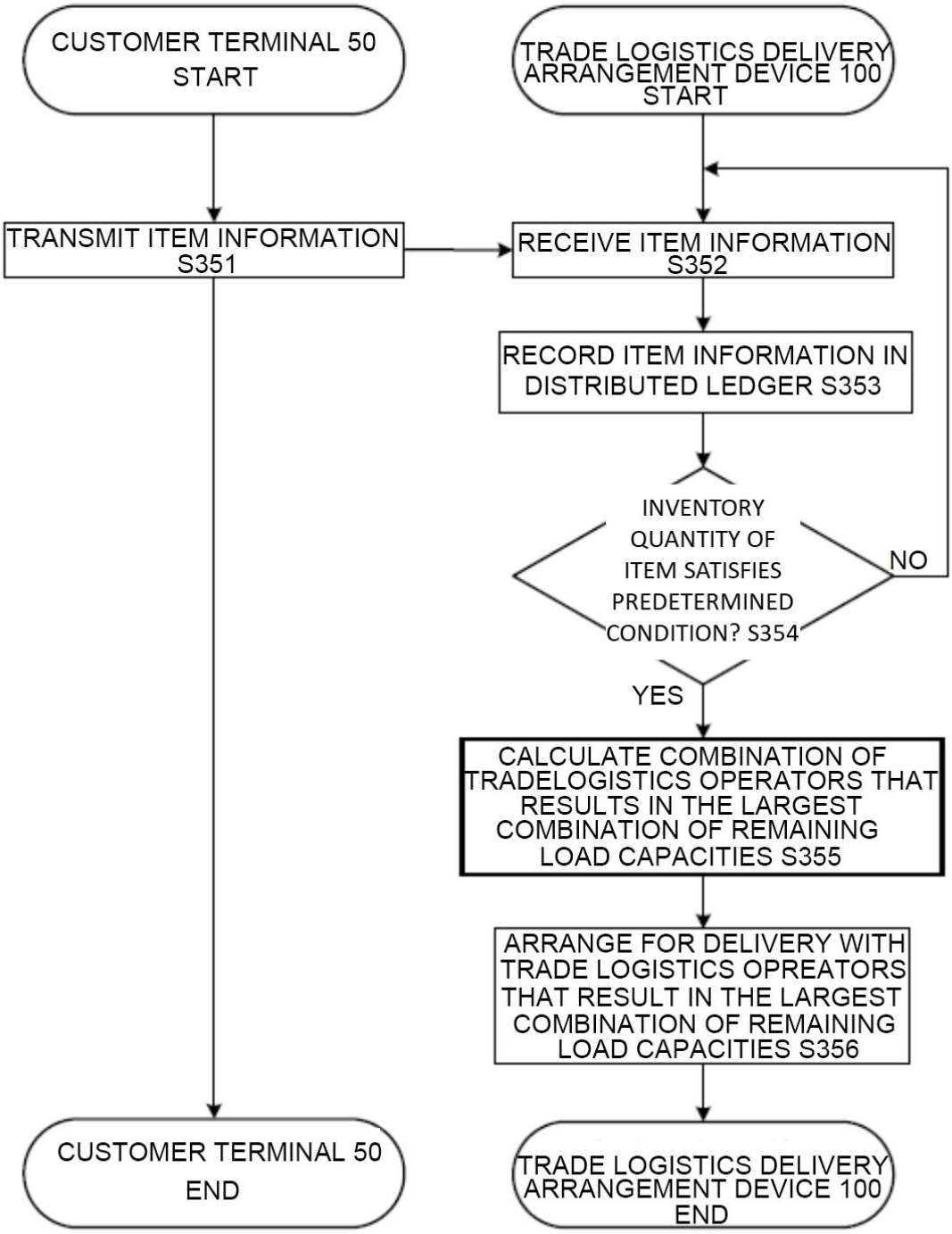

CUSTOMER TERMINAL 50
START
TRADE LOGISTICS DELIVERY ARRANGEMENT DEVICE 100
START
TRANSMIT ITEM INFORMATION S351
RECEIVE ITEM INFORMATION S352
RECORD ITEM INFORMATION IN DISTRIBUTED LEDGER S353
INVENTORY QUANTITY OF ITEM SATISFIES PREDETERMINED CONDITION? S354
NO
YES
CALCULATE COMBINATION OF TRADELOGISTICS OPERATORS THAT RESULTS IN THE LARGEST COMBINATION OF REMAINING LOAD CAPACITIES S355
ARRANGE FOR DELIVERY WITH TRADE LOGISTICS OPREATORS THAT RESULT IN THE LARGEST COMBINATION OF REMAINING LOAD CAPACITIES S356
CUSTOMER TERMINAL 50
END
TRADE LOGISTICS DELIVERY ARRANGEMENT DEVICE 100
END

FIG. 8

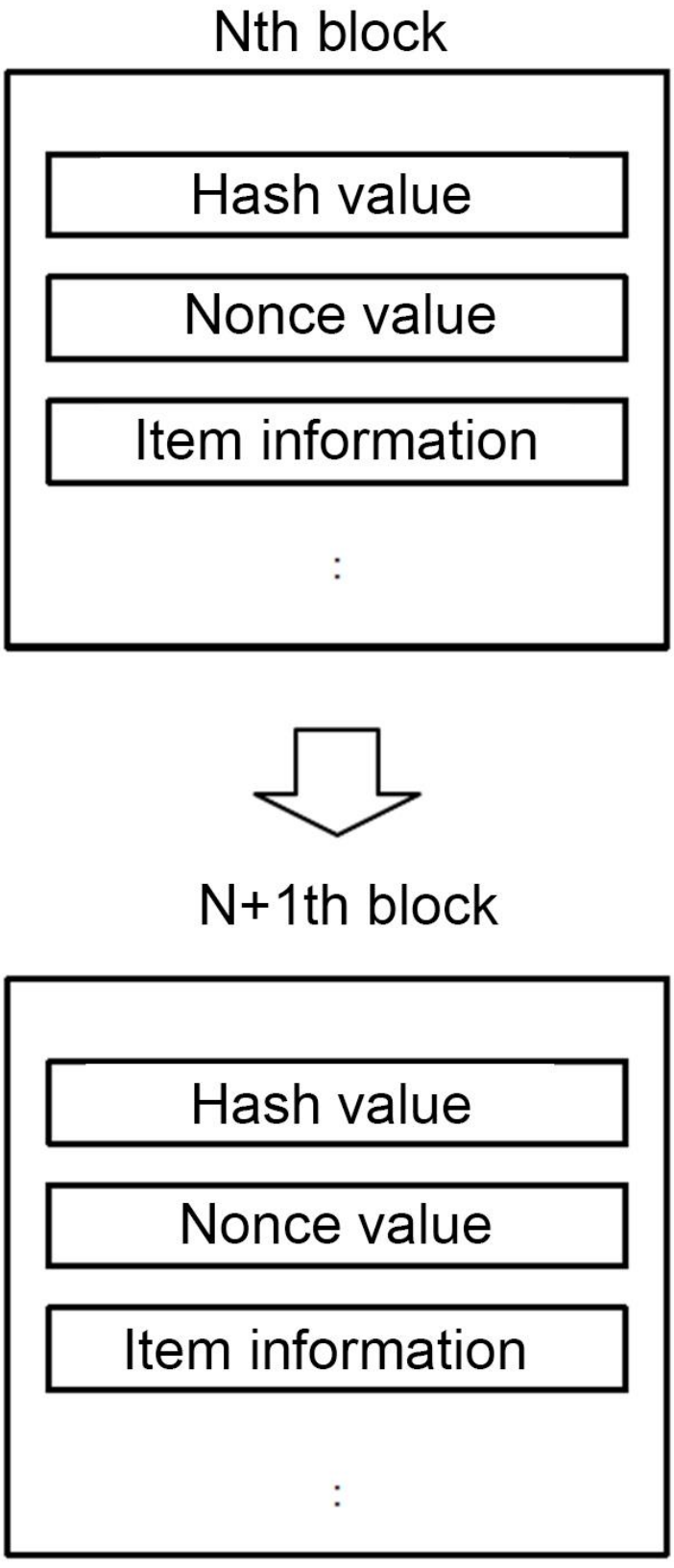

Nth block
Hash value
Nonce value
Item information
:
N+1th block
Hash value
Nonce value
Item information
:

FIG. 9