FIG. 1

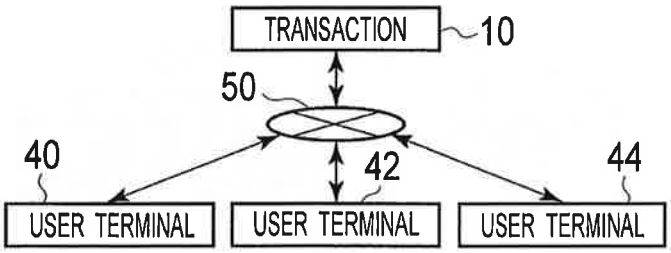

TRANSACTION
10
50
40
42
44
USER TERMINAL
USER TERMINAL
USER TERMINAL

FIG. 2

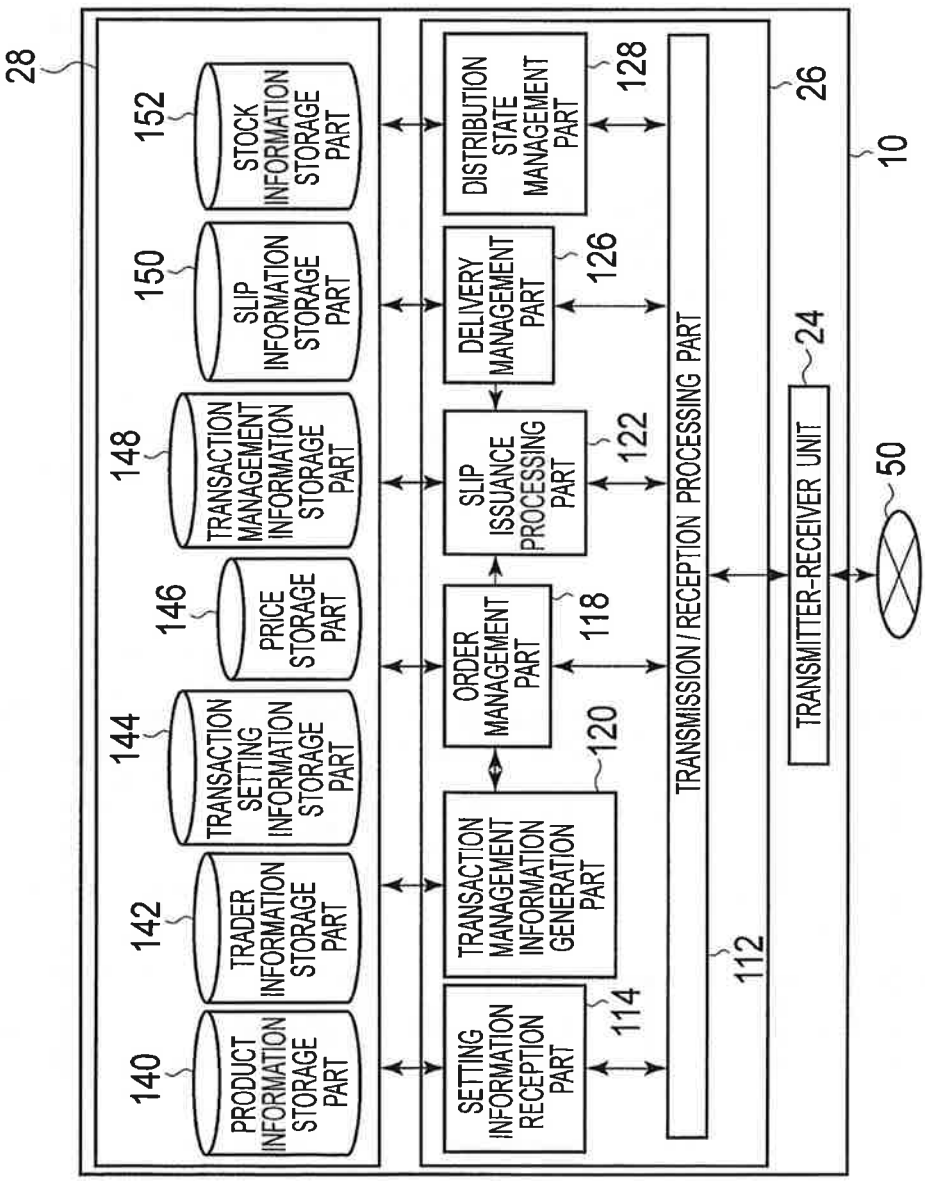

28
152
STOCK INFORMATION STORAGE PART
150
SLIP INFORMATION STORAGE PART
148
TRANSACTION MANAGEMENT INFORMATION STORAGE PART
146
PRICE STORAGE PART
144
TRANSACTION SETTING INFORMATION STORAGE PART
142
TRADER INFORMATION STORAGE PART
140
PRODUCT INFORMATION STORAGE PART
DISTRIBUTION STATE MANAGEMENT PART
128
DELIVERY MANAGEMENT PART
126
SLIP ISSUANCE PROCESSING PART
122
ORDER MANAGEMENT PART
118
120
TRANSACTION MANAGEMENT INFORMATION GENERATION PART
SETTING INFORMATION RECEPTION PART
114
112
TRANSMISSION / RECEPTION PROCESSING PART
26
10
TRANSMITTER-RECEIVER UNIT
24
50

FIG. 3

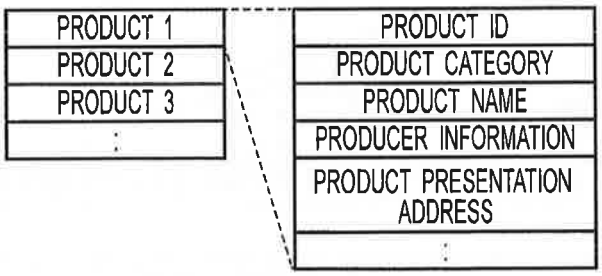


FIG. 4

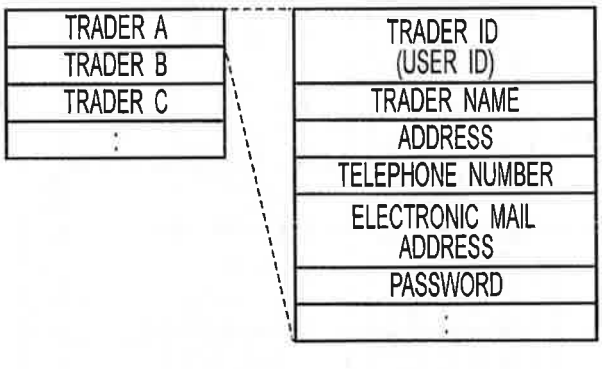


FIG. 5

TRADER ID	PRODUCT ID	UPSTREAM TRADER	DOWNSTREAM TRADER	SALABLE QUANTITY	ORDERING MANAGEMENT MODE	AUTOMATIC ORDER PERMISSION FLAG	PRODUCT DISTRIBUTION MODE	..
a	p0001	b	f	20	NO NEED OF ORDER	–	RECEIPT OF PRODUCT	..
b	p0001	c	a	–	NEED OF ORDER	レ	DIRECT DELIVERY	..
c	p0001	d	b	500	NO NEED OF ORDER	–	RECEIPT OF PRODUCT	..
:	:	:	:	:	:	:	:	:

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FIG. 6

PRODUCT ID	TRADER ID	DOWNSTREAM TRADER ID	UNIT PRICE (YEN)	BILLING MODE	BILLING TIMING	. .
p0001	b	a	300	EVERY-TRANSACTION BILLING	ON SHIPMENT OF PRODUCT	. .
p0001	c	b	200	CYCLE BILLING	TERM END	. .
:	:	:	:	:	:	:

146

FIG. 7

TRANSACTION ID
(BRANCH NUMBER)
ORDERING TRADER
PRODUCT ID
ORDER QUANTITY
UNIT PRICE
ORDER RECIPIENT TRADER ID
ORDERABLE FLAG
SHIPPING DESTINATION TRADER ID
BILLING MODE
BILLING TIMING
CHARGEABLE FLAG
SHIPPED FLAG
DELIVERED FLAG

148

FIG. 8

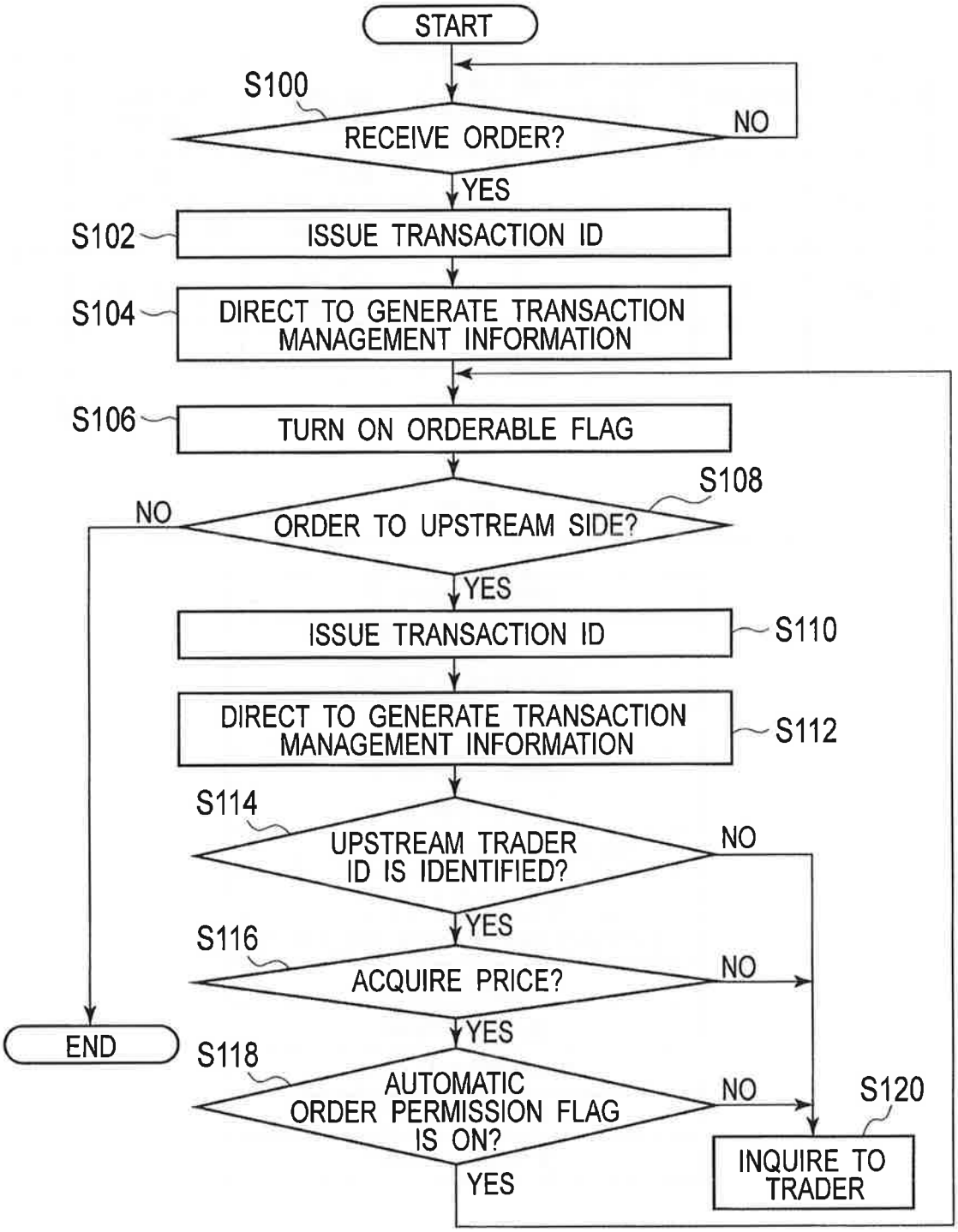

START
S100
RECEIVE ORDER?
NO
YES
S102
ISSUE TRANSACTION ID
S104
DIRECT TO GENERATE TRANSACTION MANAGEMENT INFORMATION
S106
TURN ON ORDERABLE FLAG
S108
ORDER TO UPSTREAM SIDE?
NO
YES
S110
ISSUE TRANSACTION ID
S112
DIRECT TO GENERATE TRANSACTION MANAGEMENT INFORMATION
S114
UPSTREAM TRADER ID IS IDENTIFIED?
NO
YES
S116
ACQUIRE PRICE?
NO
YES
END
S118
AUTOMATIC ORDER PERMISSION FLAG IS ON?
NO
YES
S120
INQUIRE TO TRADER

FIG. 9

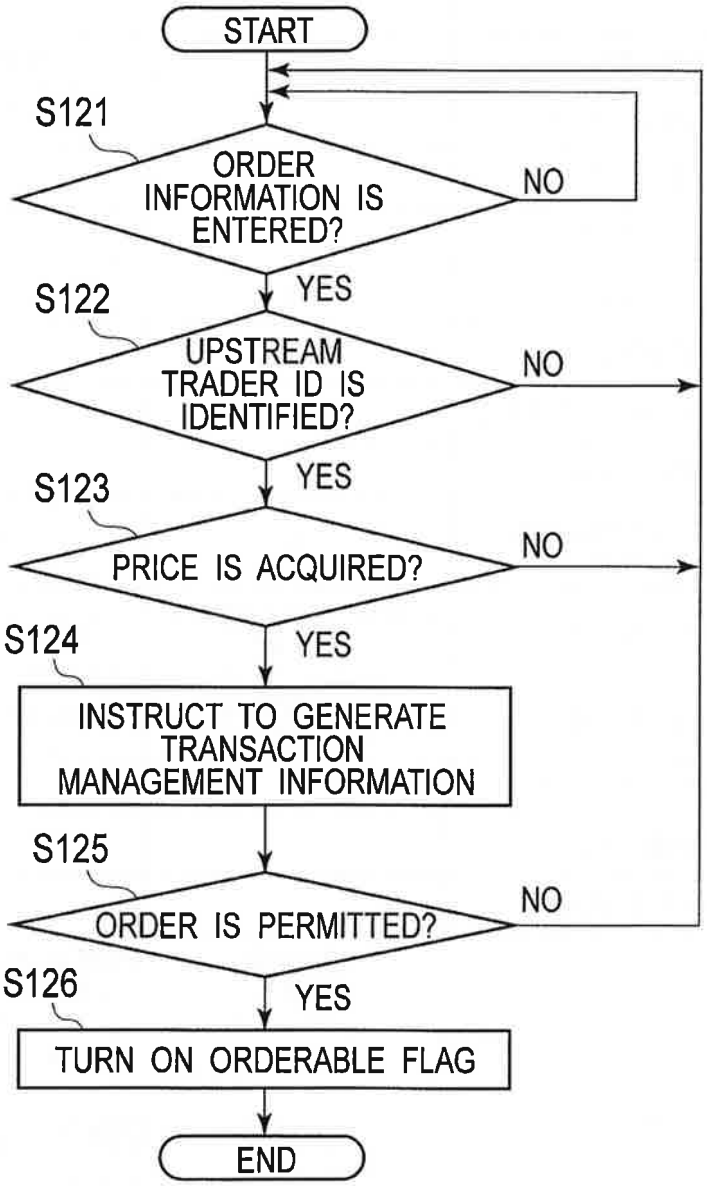
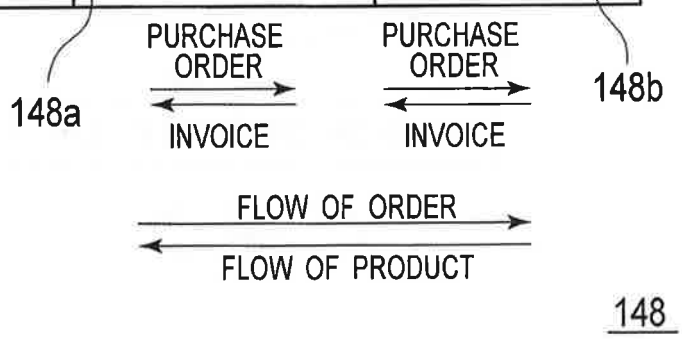

START
S121
ORDER INFORMATION IS ENTERED?
NO
YES
S122
UPSTREAM TRADER ID IS IDENTIFIED?
NO
YES
S123
PRICE IS ACQUIRED?
NO
YES
S124
INSTRUCT TO GENERATE TRANSACTION MANAGEMENT INFORMATION
S125
ORDER IS PERMITTED?
NO
YES
S126
TURN ON ORDERABLE FLAG
END

FIG. 10

	DOWNSTREAM TRADER (a)	INTERMEDIARY TRADER (b)	UPSTREAM TRADER (c)
TRANSACTION ID	t0101	t0101	
(BRANCH NUMBER)	1	2	
ORDERING TRADER ID	a	b	
PRODUCT ID	p0001	p0001	
ORDER QUANTITY	100	100	
UNIT PRICE	300	200	
ORDER RECIPIENT TRADER ID	b	c	
ORDERABLE FLAG	レ	レ	
SHIPPING DESTINATION TRADER ID	a	a	
BILLING MODE	EVERY-TRANSACTION BILLING	CYCLE BILLING	
BILLING TIMING	ON SHIPMENT OF PRODUCT	TERM END	
CHARGEABLE FLAG			
SHIPPING FLAG			
DELIVERED FLAG			



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FIG. 11

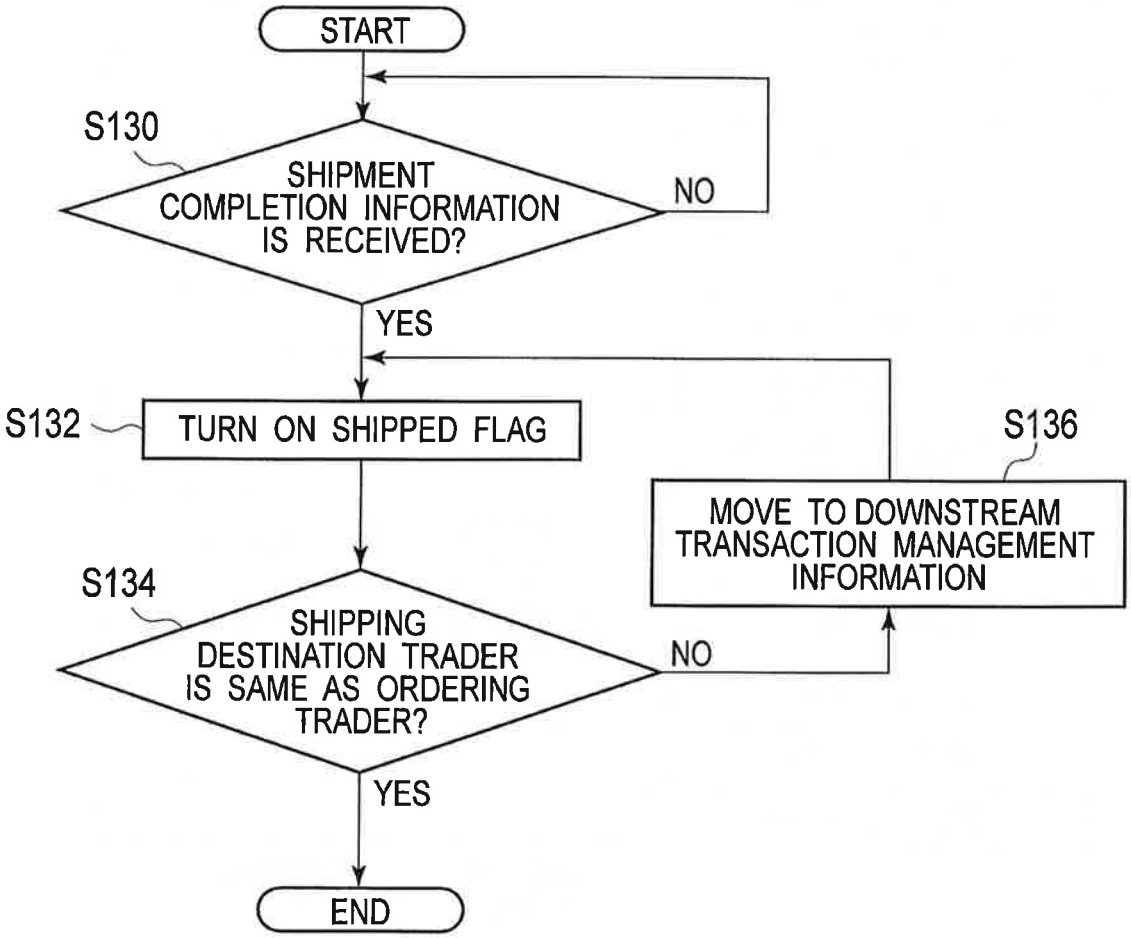
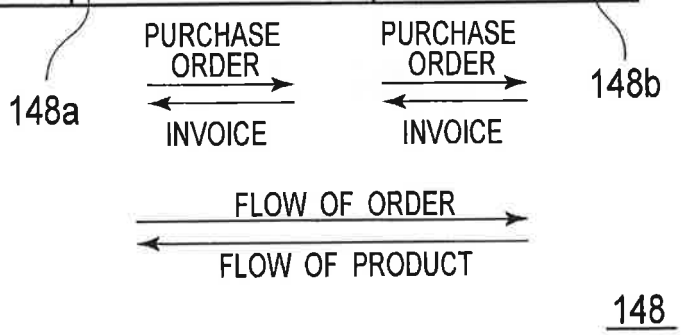

START
S130
SHIPMENT COMPLETION INFORMATION IS RECEIVED?
NO
YES
S132
TURN ON SHIPPED FLAG
S136
MOVE TO DOWNSTREAM TRANSACTION MANAGEMENT INFORMATION
S134
SHIPPING DESTINATION TRADER IS SAME AS ORDERING TRADER?
NO
YES
END

FIG. 12

	DOWNSTREAM TRADER (a)	INTERMEDIARY TRADER (b)	UPSTREAM TRADER (c)
TRANSACTION ID	t0101	t0101	
(BRANCH NUMBER)	1	2	
ORDERING TRADER ID	a	b	
PRODUCT ID	p0001	p0001	
ORDER QUANTITY	100	100	
UNIT PRICE	300	200	
ORDER RECIPIENT TRADER ID	b	c	
ORDERABLE FLAG	レ	レ	
SHIPPING DESTINATION TRADER ID	a	a	
BILLING MODE	EVERY-TRANSACTION BILLING	CYCLE BILLING	
BILLING TIMING	ON SHIPMENT OF PRODUCTT	TERM END	
CHARGEABLE FLAG			
SHIPPED FLAG	a	a	
DELIVERED FLAG			



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FIG. 13

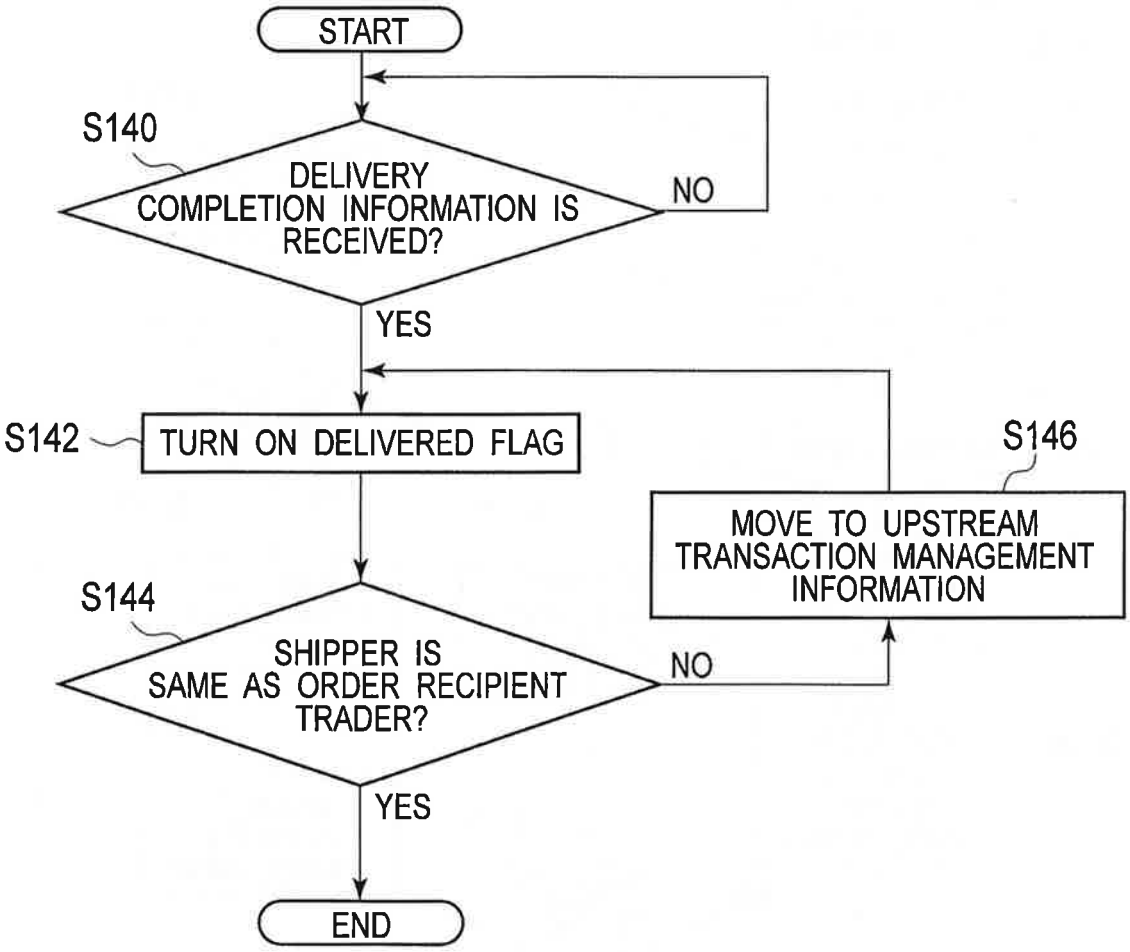

START
S140
DELIVERY COMPLETION INFORMATION IS RECEIVED?
NO
YES
S142
TURN ON DELIVERED FLAG
S146
MOVE TO UPSTREAM TRANSACTION MANAGEMENT INFORMATION
S144
SHIPPER IS SAME AS ORDER RECIPIENT TRADER?
NO
YES
END

FIG. 14

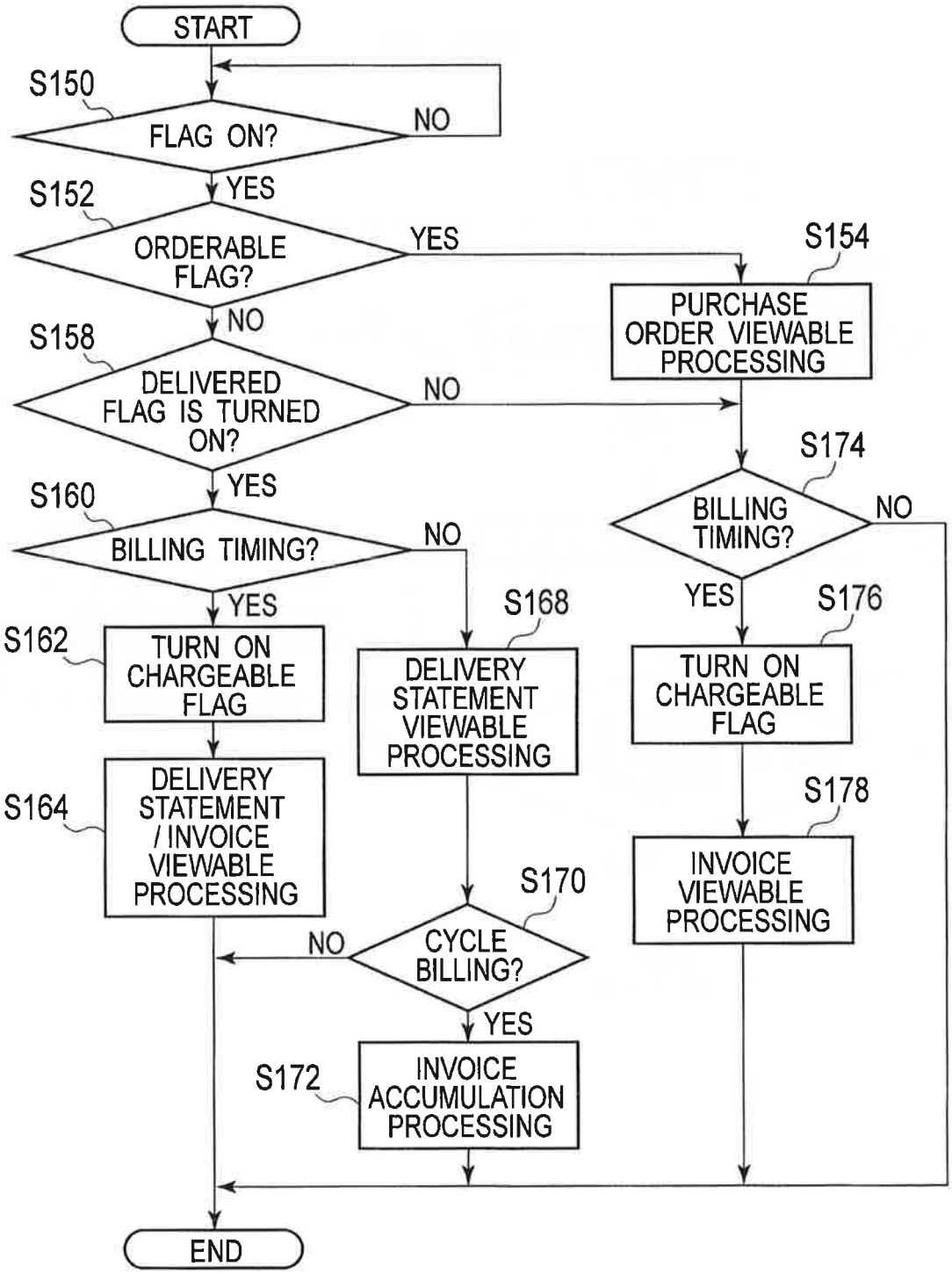

START
S150
FLAG ON?
NO
YES
S152
ORDERABLE FLAG?
YES
S154
PURCHASE ORDER VIEWABLE PROCESSING
NO
S158
DELIVERED FLAG IS TURNED ON?
NO
S174
BILLING TIMING?
NO
YES
S160
BILLING TIMING?
NO
YES
YES
S176
S162
TURN ON CHARGEABLE FLAG
S168
DELIVERY STATEMENT VIEWABLE PROCESSING
TURN ON CHARGEABLE FLAG
S164
DELIVERY STATEMENT / INVOICE VIEWABLE PROCESSING
S178
INVOICE VIEWABLE PROCESSING
S170
NO
CYCLE BILLING?
YES
S172
INVOICE ACCUMULATION PROCESSING
END

FIG. 15A

PURCHASE ORDER

MESSRS.
B COMPANY (b)

ORDERED ITEM

PRODUCT ID	PRODUCT NAME	QUANTITY (NUMBER OF PIECES)	UNIT PRICE	AMOUNT
p0001	○×	100	300	¥30,000

DELIVERED TO:
MESSRS. A COMPANY,
○×CITY

ORDERER
A COMPANY (a)

FIG. 15B

DELIVERY STATEMENT

MESSRS.
A COMPANY (a)

ORDERED ITEM

PRODUCT ID	PRODUCT NAME	QUANTITY (NUMBER OF PIECES)	UNIT PRICE	AMOUNT
p0001	○×	100	300	¥30,000

DELIVERED TO:
MESSRS. A COMPANY,
○×CITY

SUPPLIER
B COMPANY (b)

FIG. 16A

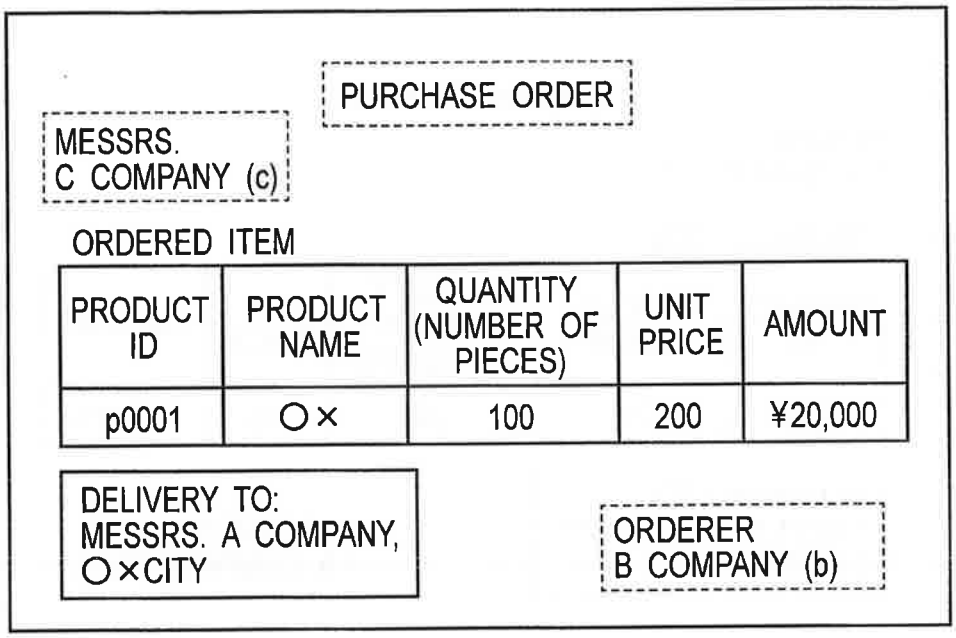


FIG. 16B

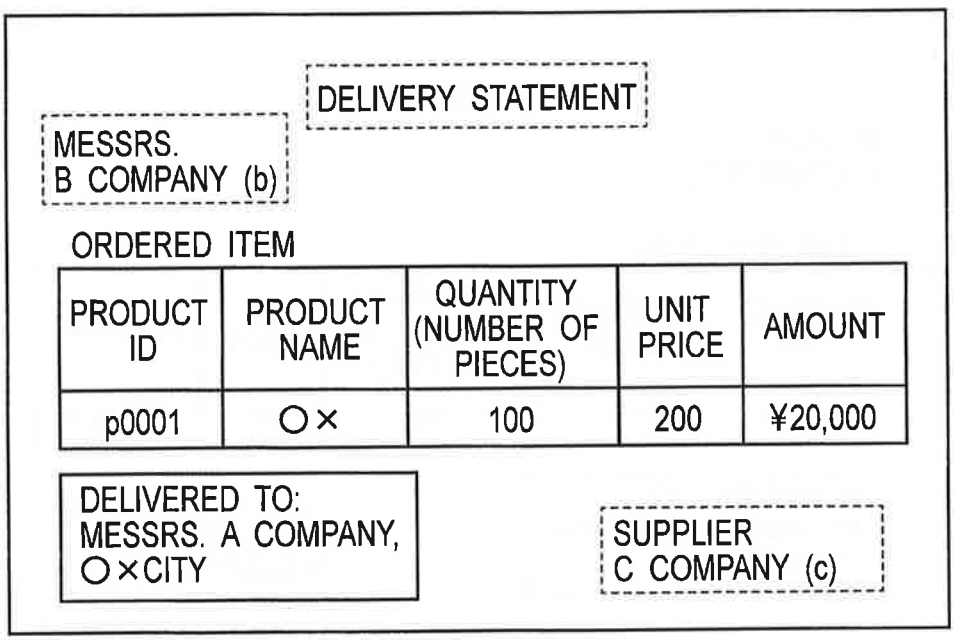


FIG. 17

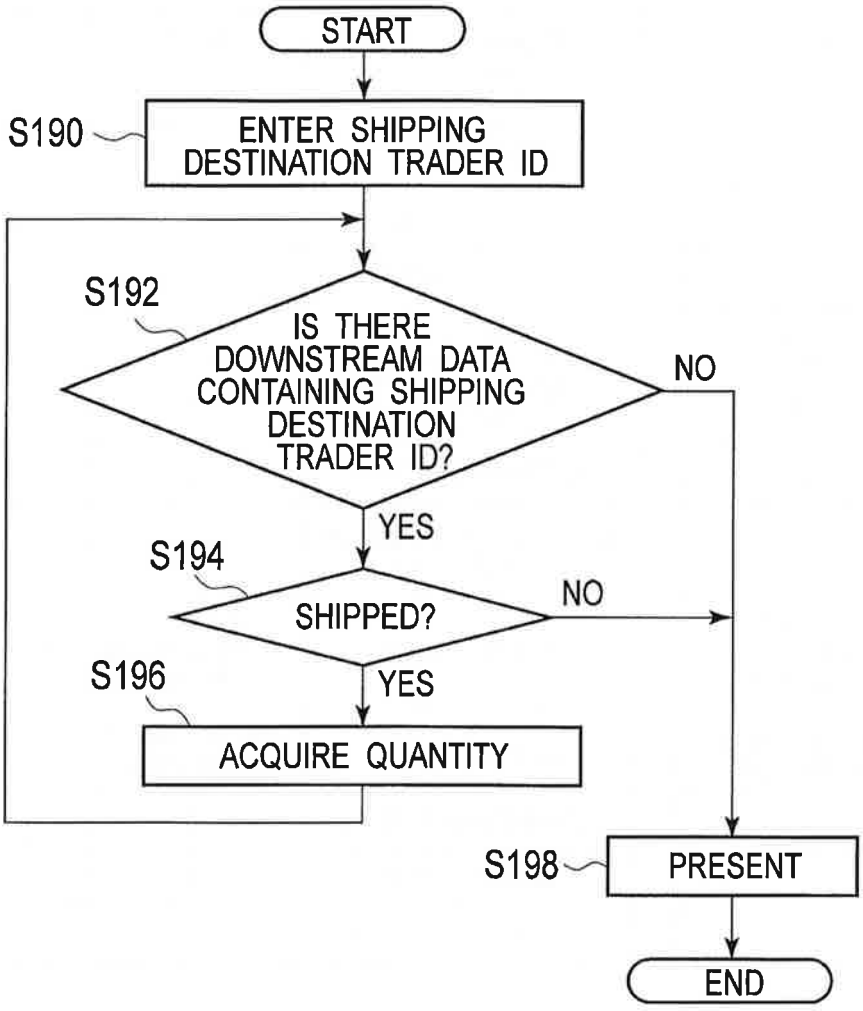

START
S190
ENTER SHIPPING DESTINATION TRADER ID
S192
IS THERE DOWNSTREAM DATA CONTAINING SHIPPING DESTINATION TRADER ID?
NO
YES
S194
SHIPPED?
NO
YES
S196
ACQUIRE QUANTITY
S198
PRESENT
END

FIG. 18

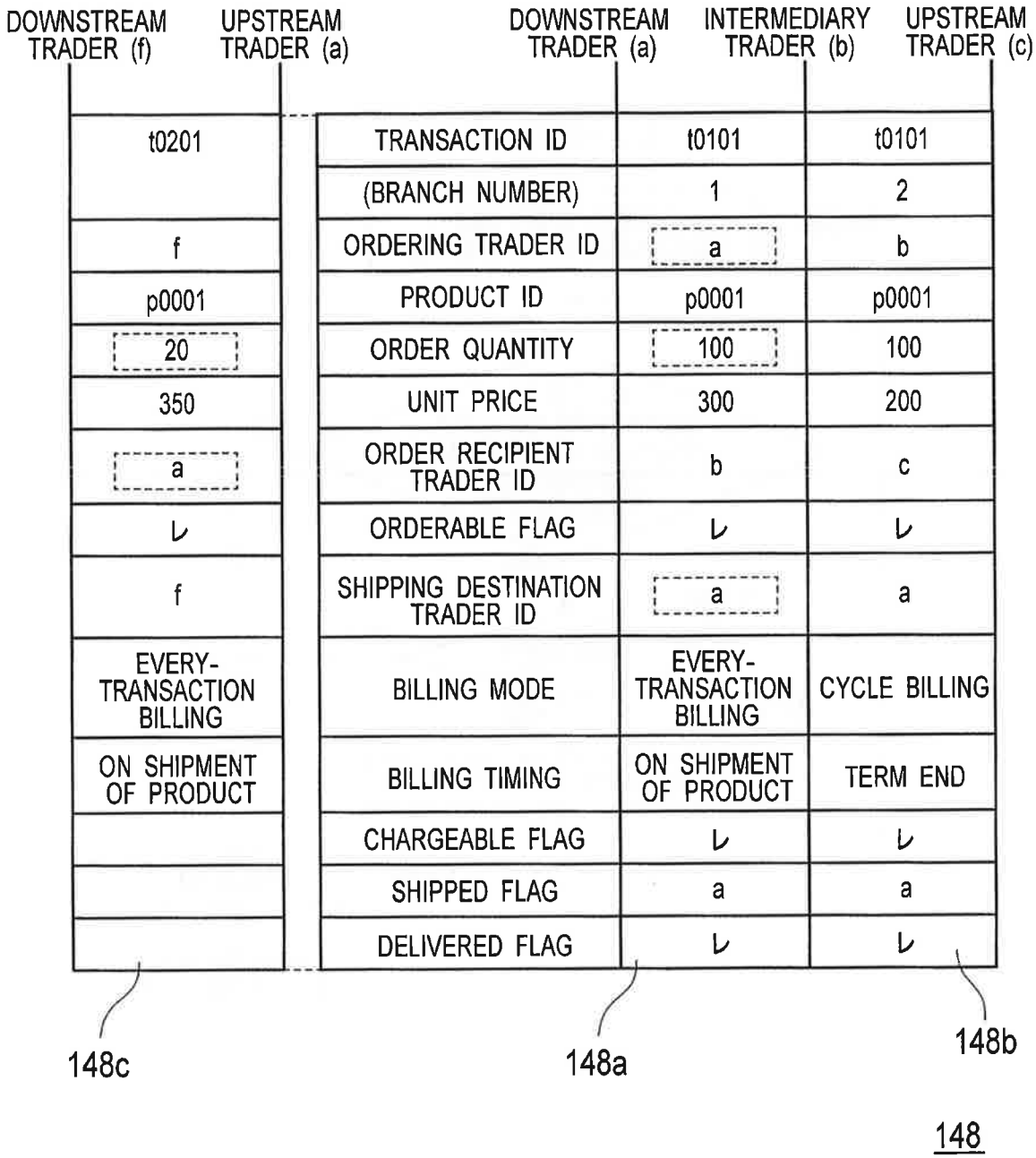

DOWNSTREAM TRADER (f)
UPSTREAM TRADER (a)
DOWNSTREAM TRADER (a)
INTERMEDIARY TRADER (b)
UPSTREAM TRADER (c)
t0201
TRANSACTION ID
t0101
t0101
(BRANCH NUMBER)
1
2
f
ORDERING TRADER ID
a
b
p0001
PRODUCT ID
p0001
p0001
20
ORDER QUANTITY
100
100
350
UNIT PRICE
300
200
a
ORDER RECIPIENT TRADER ID
b
c
レ
ORDERABLE FLAG
レ
レ
f
SHIPPING DESTINATION TRADER ID
a
a
EVERY-TRANSACTION BILLING
BILLING MODE
EVERY-TRANSACTION BILLING
CYCLE BILLING
ON SHIPMENT OF PRODUCT
BILLING TIMING
ON SHIPMENT OF PRODUCT
TERM END
CHARGEABLE FLAG
レ
レ
SHIPPED FLAG
a
a
DELIVERED FLAG
レ
レ
148c
148a
148b
148

FIG. 19

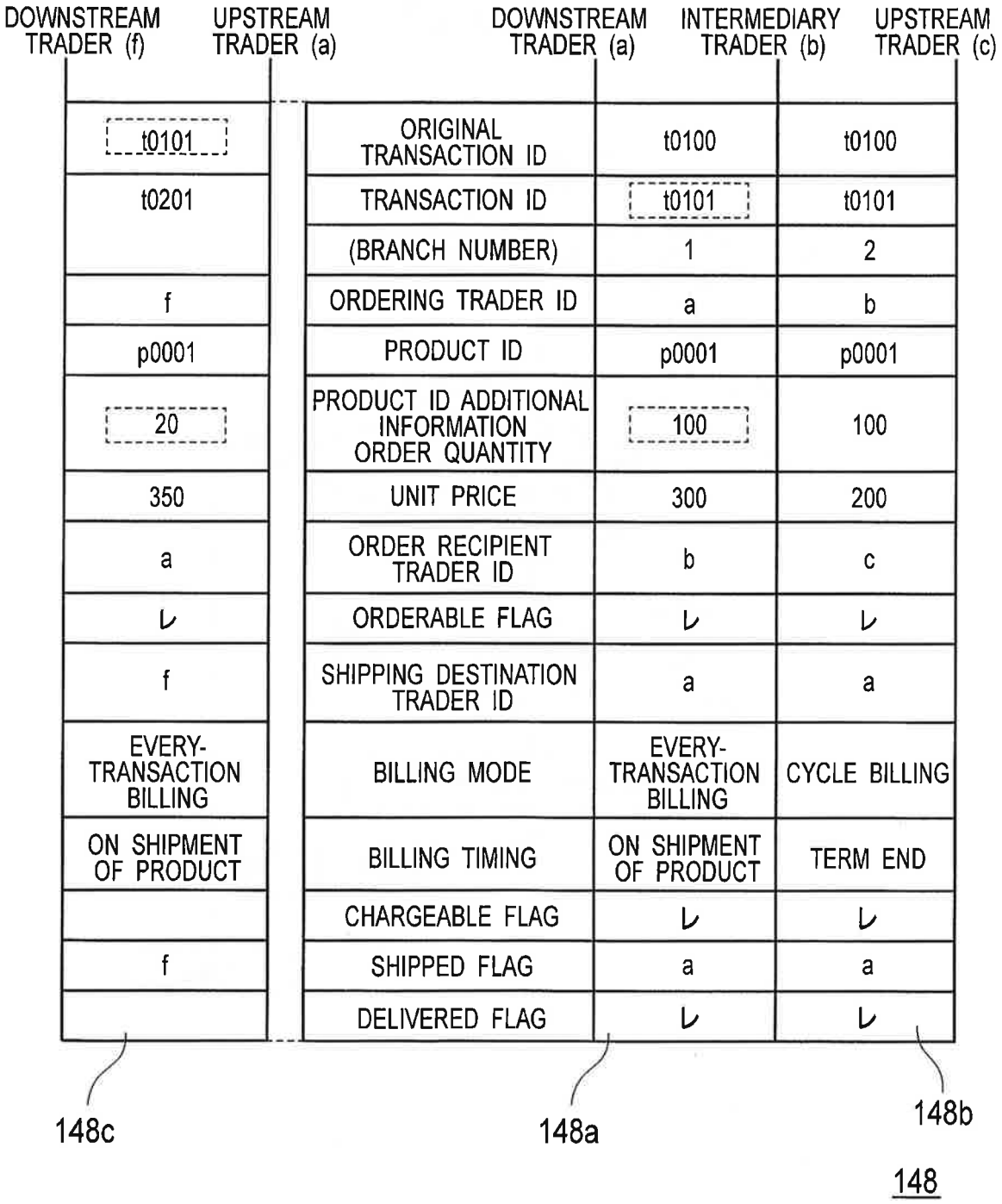

DOWNSTREAM TRADER (f)
UPSTREAM TRADER (a)
DOWNSTREAM TRADER (a)
INTERMEDIARY TRADER (b)
UPSTREAM TRADER (c)
t0101
ORIGINAL TRANSACTION ID
t0100
t0100
t0201
TRANSACTION ID
t0101
t0101
(BRANCH NUMBER)
1
2
f
ORDERING TRADER ID
a
b
p0001
PRODUCT ID
p0001
p0001
20
PRODUCT ID ADDITIONAL INFORMATION ORDER QUANTITY
100
100
350
UNIT PRICE
300
200
a
ORDER RECIPIENT TRADER ID
b
c
レ
ORDERABLE FLAG
レ
レ
f
SHIPPING DESTINATION TRADER ID
a
a
EVERY-TRANSACTION BILLING
BILLING MODE
EVERY-TRANSACTION BILLING
CYCLE BILLING
ON SHIPMENT OF PRODUCT
BILLING TIMING
ON SHIPMENT OF PRODUCT
TERM END
CHARGEABLE FLAG
レ
レ
f
SHIPPED FLAG
a
a
DELIVERED FLAG
レ
レ
148c
148a
148b
148

FIG. 20

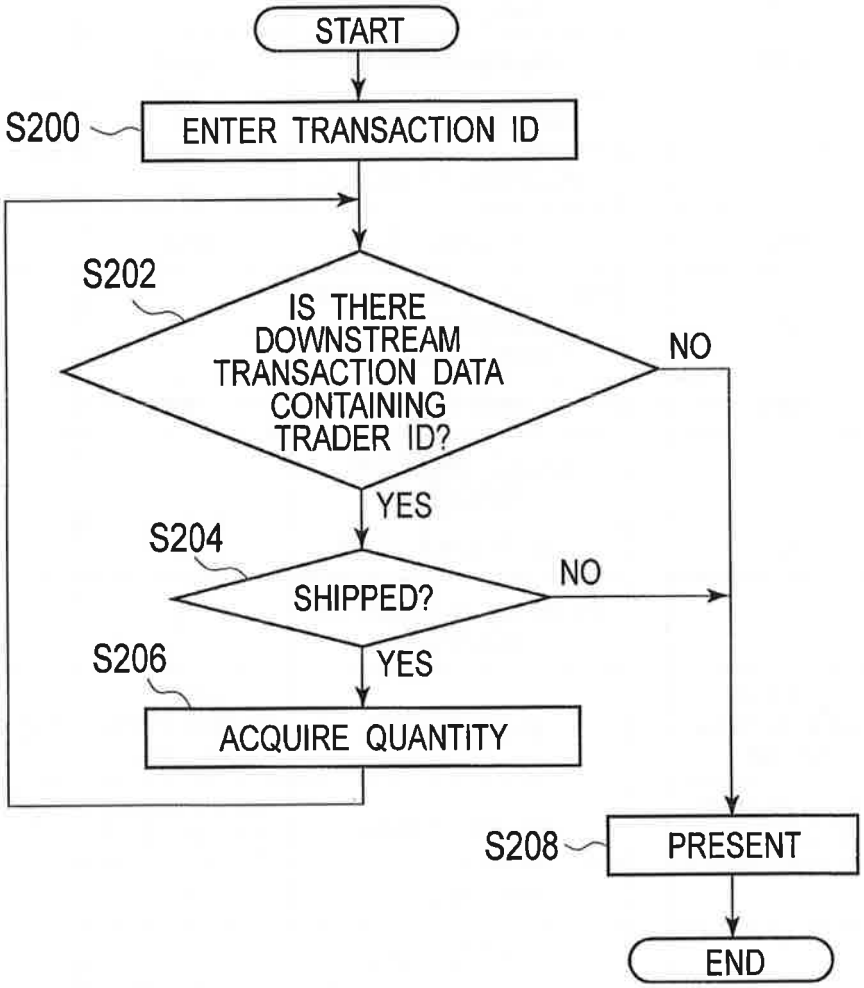
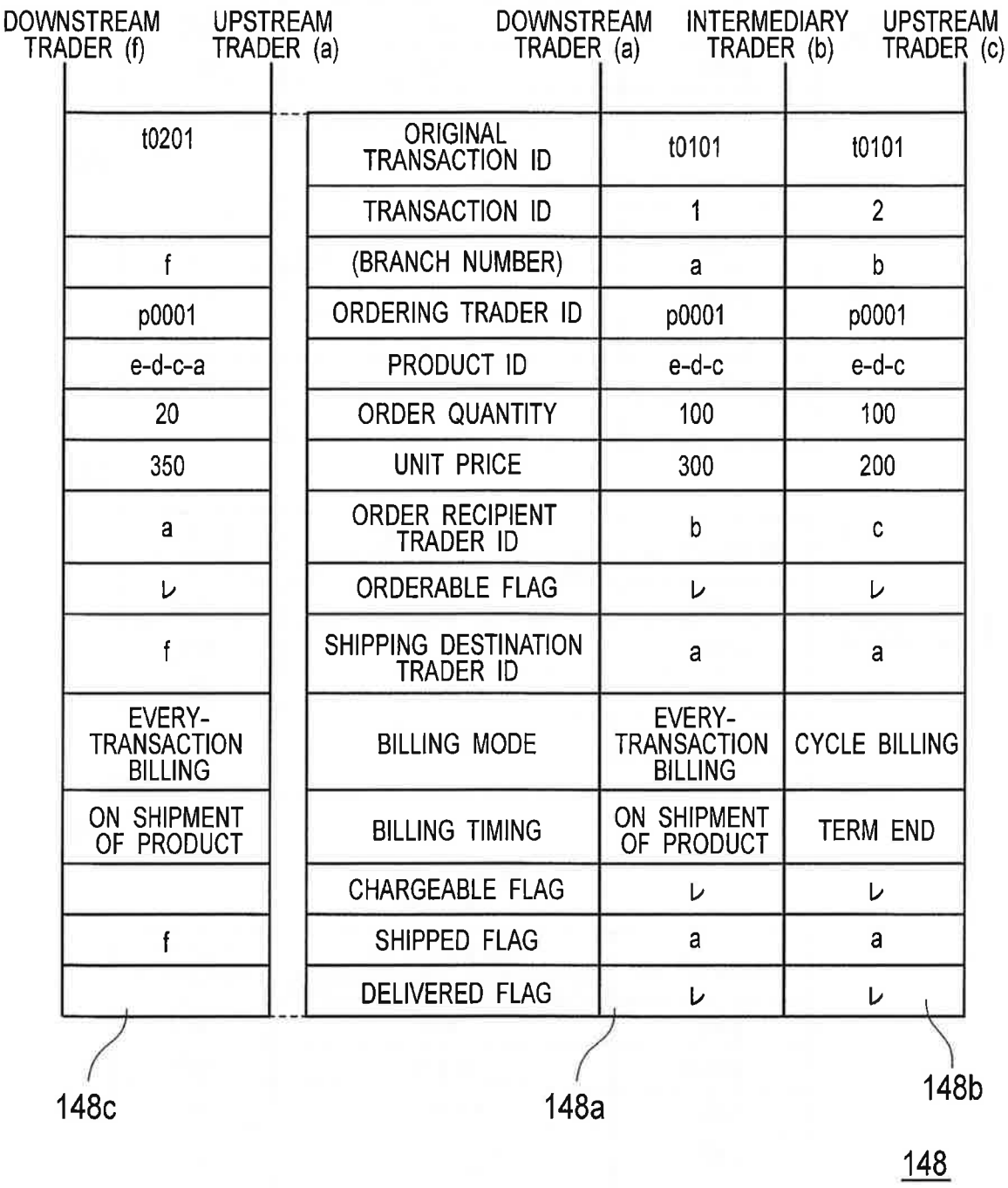

START
S200
ENTER TRANSACTION ID
S202
IS THERE DOWNSTREAM TRANSACTION DATA CONTAINING TRADER ID?
NO
YES
S204
SHIPPED?
NO
YES
S206
ACQUIRE QUANTITY
S208
PRESENT
END

FIG. 21



DOWNSTREAM TRADER (f)	UPSTREAM TRADER (a)		DOWNSTREAM TRADER (a)	INTERMEDIARY TRADER (b)	UPSTREAM TRADER (c)
t0201		ORIGINAL TRANSACTION ID	t0101	t0101	
		TRANSACTION ID	1	2	
f		(BRANCH NUMBER)	a	b	
p0001		ORDERING TRADER ID	p0001	p0001	
e-d-c-a		PRODUCT ID	e-d-c	e-d-c	
20		ORDER QUANTITY	100	100	
350		UNIT PRICE	300	200	
a		ORDER RECIPIENT TRADER ID	b	c	
レ		ORDERABLE FLAG	レ	レ	
f		SHIPPING DESTINATION TRADER ID	a	a	
EVERY-TRANSACTION BILLING		BILLING MODE	EVERY-TRANSACTION BILLING	CYCLE BILLING	
ON SHIPMENT OF PRODUCT		BILLING TIMING	ON SHIPMENT OF PRODUCT	TERM END	
		CHARGEABLE FLAG	レ	レ	
f		SHIPPED FLAG	a	a	
		DELIVERED FLAG	レ	レ	

148c 148a 148b

148

FIG. 22A

PRODUCT ID	PRODUCT ID ADDITIONAL INFORMATION	STOCK QUANTITY
p0001	e-d	1000
p0001	e-d-c	500
:	:	:

152

FIG. 22B

PRODUCT ID	PRODUCT ID ADDITIONAL INFORMATION	STOCK QUANTITY
p0001	e-d	1000
p0001	e-d-c	400
p0001	e-d-c-a	100
:	:	:

152

(c)

FIG. 22C

PRODUCT ID	PRODUCT ID ADDITIONAL INFORMATION	STOCK QUANTITY
p0001	e-d	1000
p0001	e-d-c	400
p0001	e-d-c-a	80
p0001	e-d-c-a-f	20
:	:	:

152

FIG. 23

PRODUCT ID	PRODUCT ID ADDITIONAL INFORMATION	STOCK QUANTITY
p0001	e-d	1000
p0001	e-d-%	400
p0001	e-d-%-%	80
p0001	e-d-%-%-%	20
:	:	:

FIG. 24

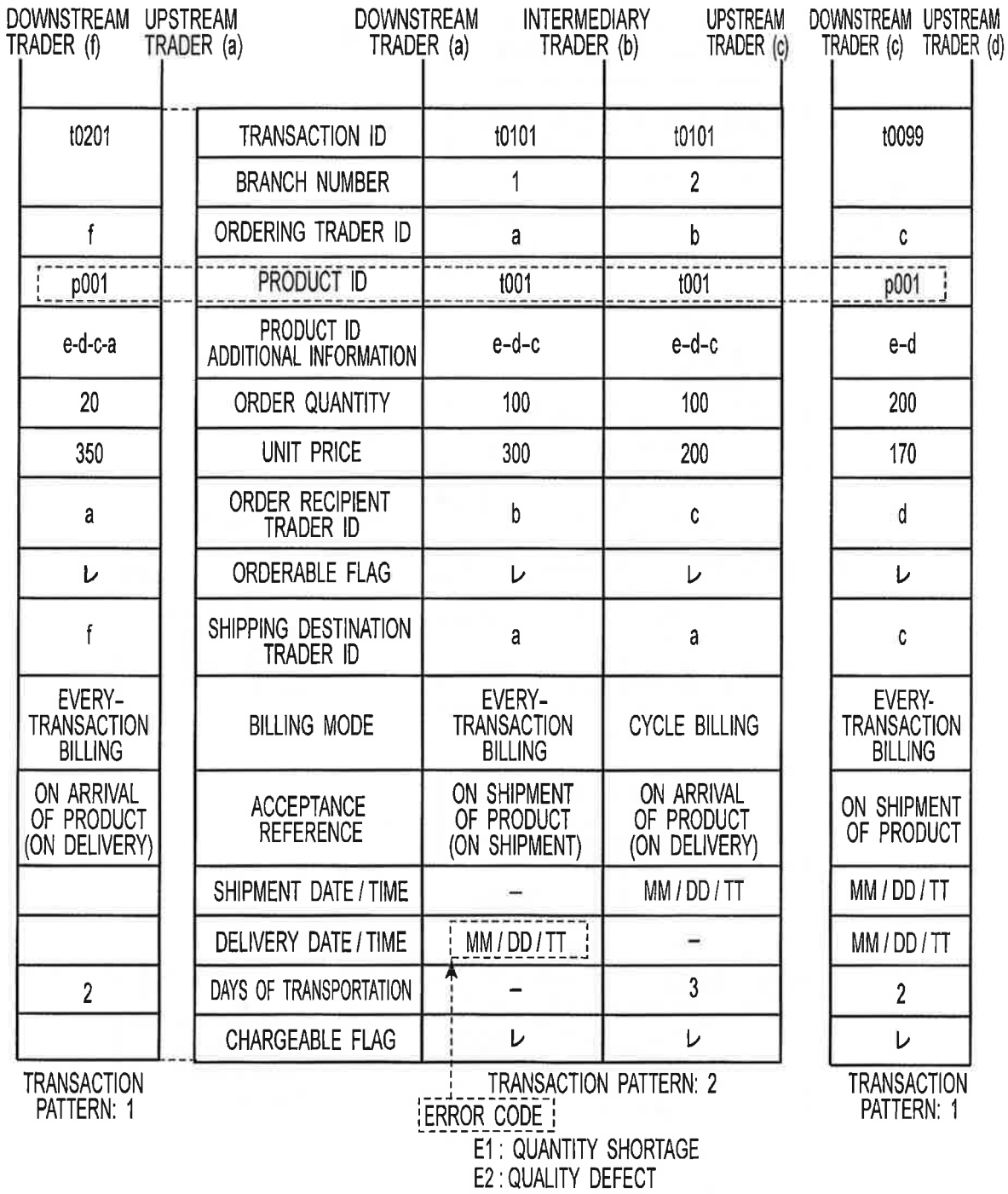

DOWNSTREAM TRADER (f)
UPSTREAM TRADER (a)
DOWNSTREAM TRADER (a)
INTERMEDIARY TRADER (b)
UPSTREAM TRADER (c)
DOWNSTREAM TRADER (c)
UPSTREAM TRADER (d)
t0201
TRANSACTION ID
t0101
t0101
t0099
BRANCH NUMBER
1
2
f
ORDERING TRADER ID
a
b
c
p001
PRODUCT ID
t001
t001
p001
e-d-c-a
PRODUCT ID ADDITIONAL INFORMATION
e-d-c
e-d-c
e-d
20
ORDER QUANTITY
100
100
200
350
UNIT PRICE
300
200
170
a
ORDER RECIPIENT TRADER ID
b
c
d
レ
ORDERABLE FLAG
レ
レ
レ
f
SHIPPING DESTINATION TRADER ID
a
a
c
EVERY-TRANSACTION BILLING
BILLING MODE
EVERY-TRANSACTION BILLING
CYCLE BILLING
EVERY-TRANSACTION BILLING
ON ARRIVAL OF PRODUCT (ON DELIVERY)
ACCEPTANCE REFERENCE
ON SHIPMENT OF PRODUCT (ON SHIPMENT)
ON ARRIVAL OF PRODUCT (ON DELIVERY)
ON SHIPMENT OF PRODUCT
SHIPMENT DATE / TIME
–
MM / DD / TT
MM / DD / TT
DELIVERY DATE / TIME
MM / DD / TT
–
MM / DD / TT
2
DAYS OF TRANSPORTATION
–
3
2
CHARGEABLE FLAG
レ
レ
レ
TRANSACTION PATTERN: 1
TRANSACTION PATTERN: 2
TRANSACTION PATTERN: 1
ERROR CODE
E1 : QUANTITY SHORTAGE
E2 : QUALITY DEFECT

FIG. 25

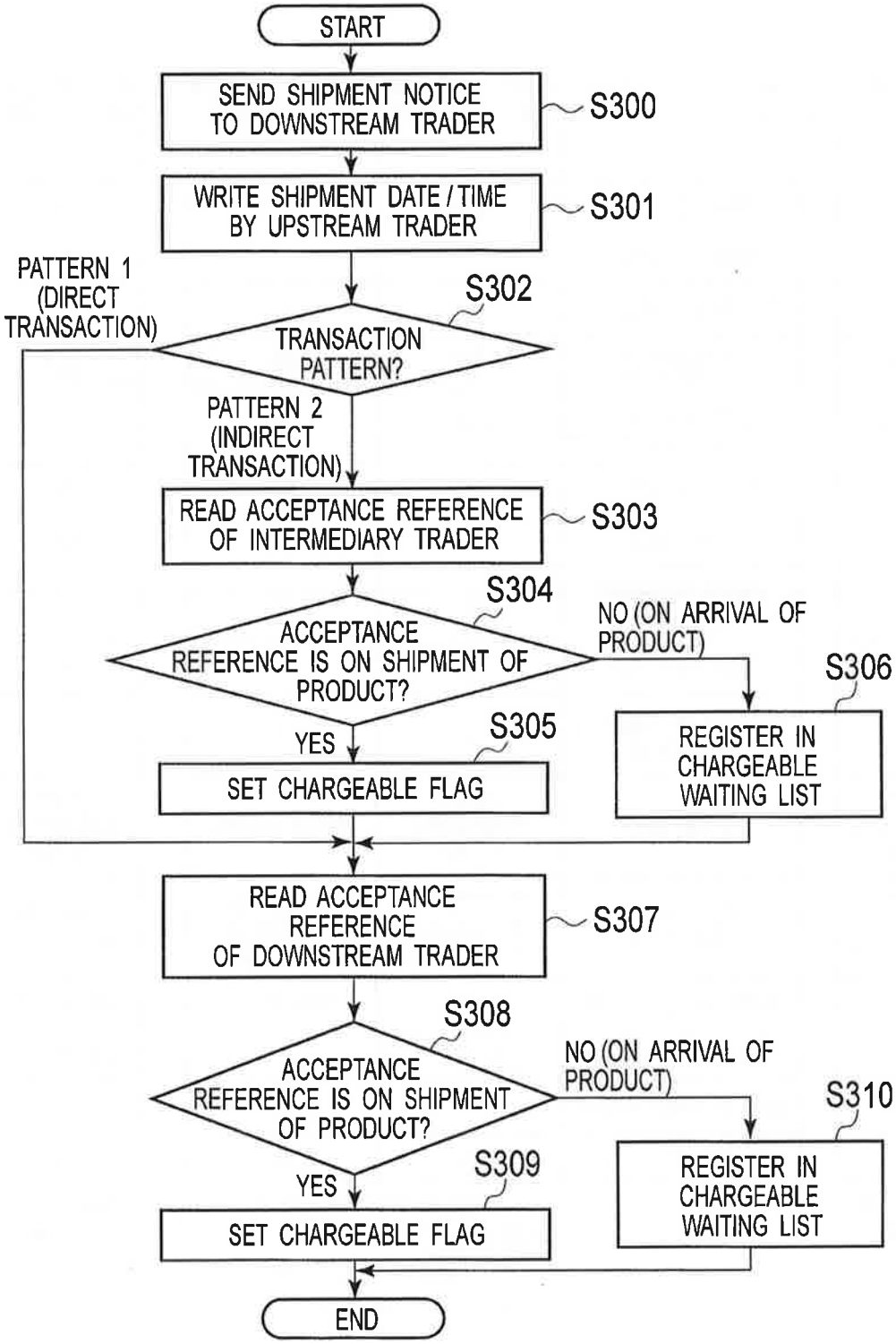

START
SEND SHIPMENT NOTICE TO DOWNSTREAM TRADER
S300
WRITE SHIPMENT DATE / TIME BY UPSTREAM TRADER
S301
PATTERN 1 (DIRECT TRANSACTION)
S302
TRANSACTION PATTERN?
PATTERN 2 (INDIRECT TRANSACTION)
READ ACCEPTANCE REFERENCE OF INTERMEDIARY TRADER
S303
S304
ACCEPTANCE REFERENCE IS ON SHIPMENT OF PRODUCT?
NO (ON ARRIVAL OF PRODUCT)
S306
REGISTER IN CHARGEABLE WAITING LIST
YES
S305
SET CHARGEABLE FLAG
READ ACCEPTANCE REFERENCE OF DOWNSTREAM TRADER
S307
S308
ACCEPTANCE REFERENCE IS ON SHIPMENT OF PRODUCT?
NO (ON ARRIVAL OF PRODUCT)
S310
REGISTER IN CHARGEABLE WAITING LIST
YES
S309
SET CHARGEABLE FLAG
END

FIG. 26

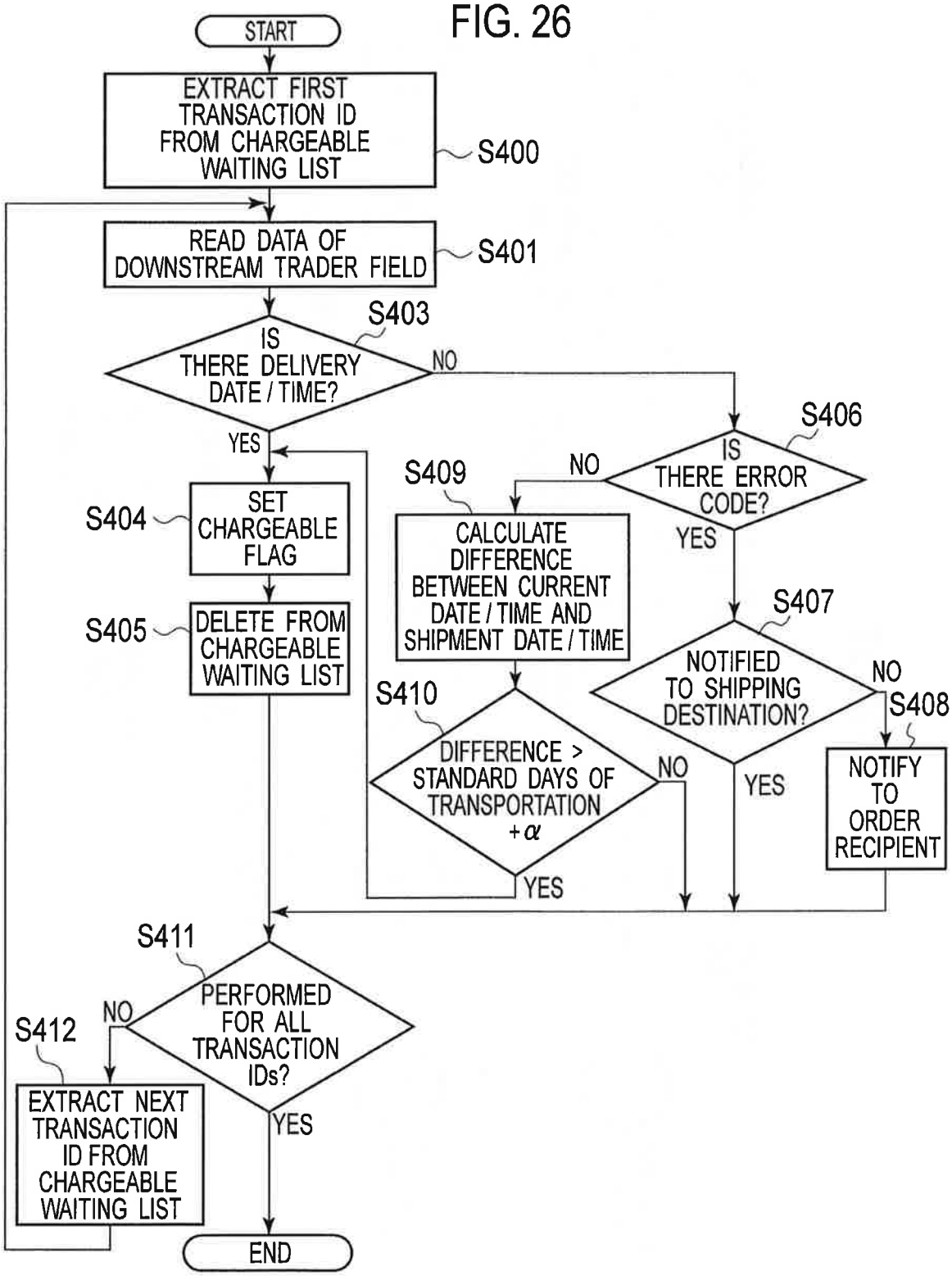
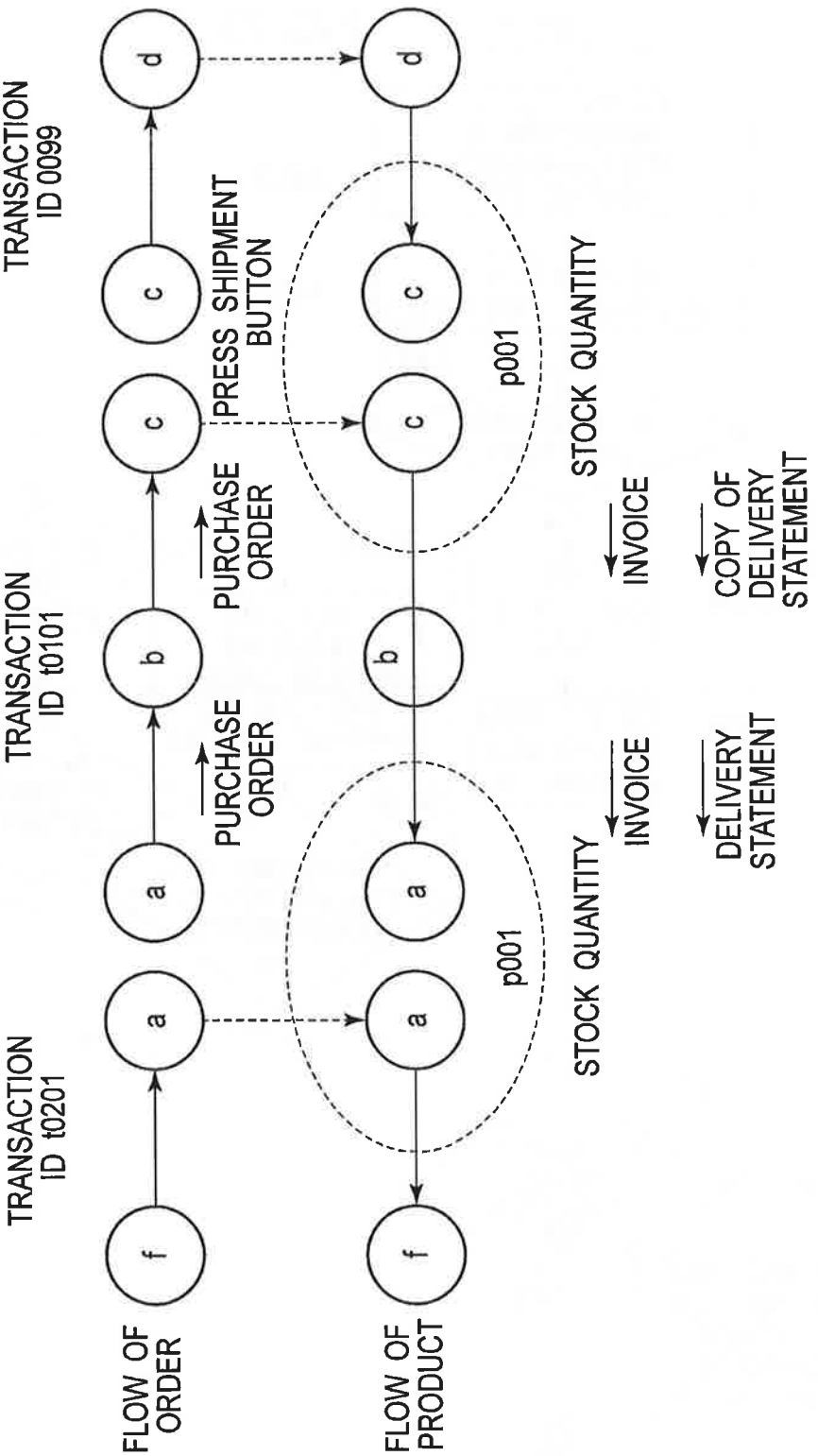

START
EXTRACT FIRST TRANSACTION ID FROM CHARGEABLE WAITING LIST
S400
READ DATA OF DOWNSTREAM TRADER FIELD
S401
S403
IS THERE DELIVERY DATE / TIME?
NO
YES
S406
IS THERE ERROR CODE?
NO
YES
S409
CALCULATE DIFFERENCE BETWEEN CURRENT DATE / TIME AND SHIPMENT DATE / TIME
S404
SET CHARGEABLE FLAG
S405
DELETE FROM CHARGEABLE WAITING LIST
S407
NOTIFIED TO SHIPPING DESTINATION?
NO
YES
S408
NOTIFY TO ORDER RECIPIENT
S410
DIFFERENCE > STANDARD DAYS OF TRANSPORTATION +α
NO
YES
S411
PERFORMED FOR ALL TRANSACTION IDs?
NO
YES
S412
EXTRACT NEXT TRANSACTION ID FROM CHARGEABLE WAITING LIST
END

FIG. 27


TRANSACTION ID t0201
TRANSACTION ID t0101
TRANSACTION ID 0099
PURCHASE ORDER
PURCHASE ORDER
PRESS SHIPMENT BUTTON
FLOW OF ORDER
FLOW OF PRODUCT
p001
p001
STOCK QUANTITY
INVOICE
DELIVERY STATEMENT
STOCK QUANTITY
INVOICE
COPY OF DELIVERY STATEMENT
a
b
c
d
f