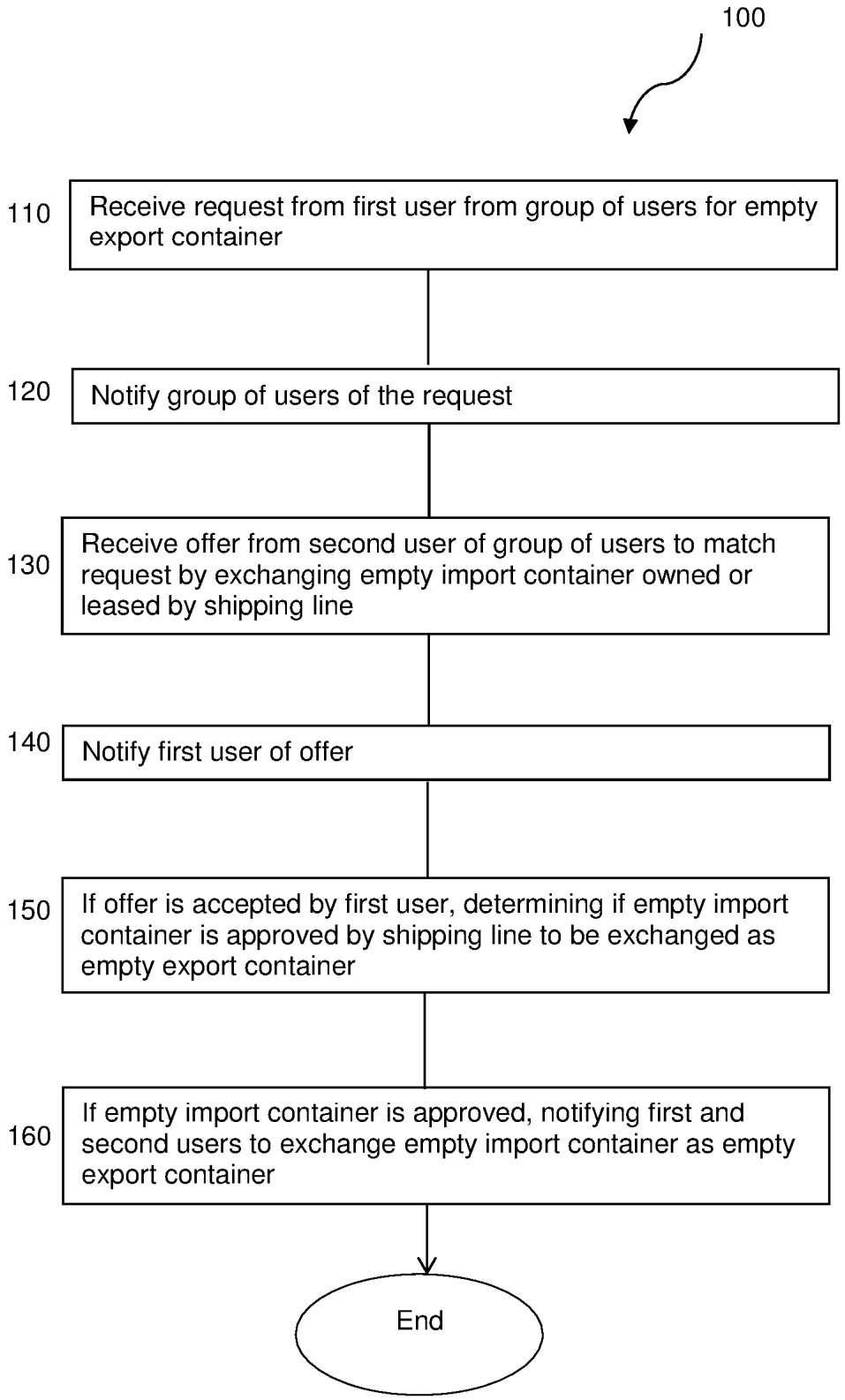
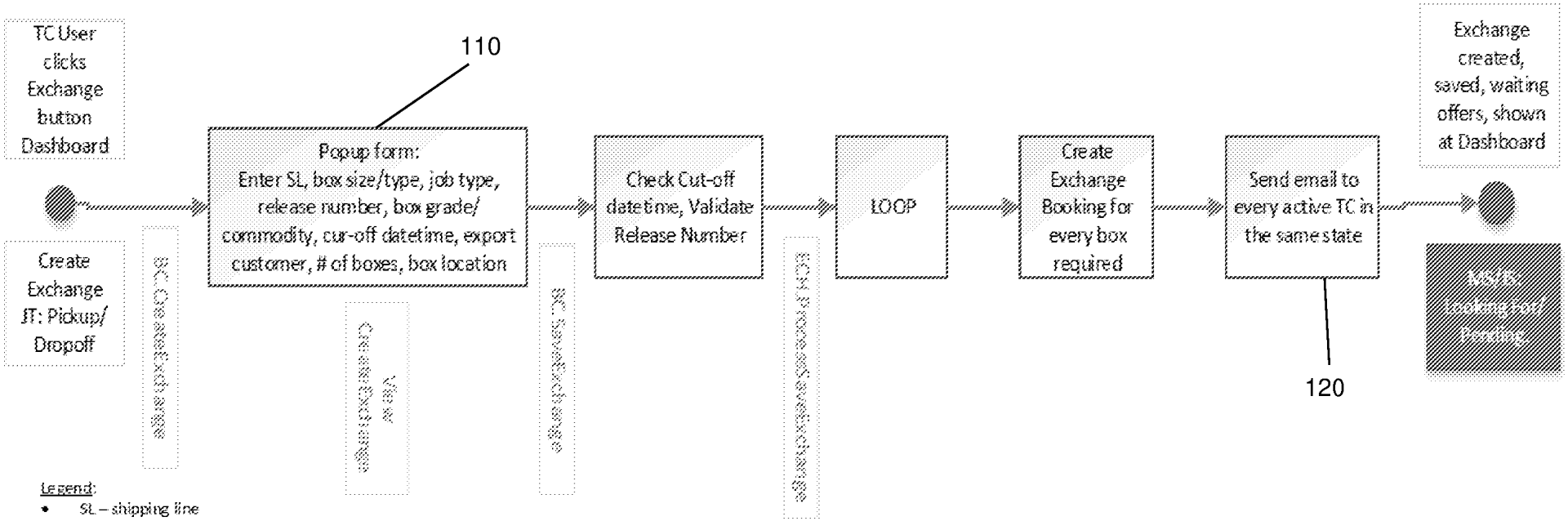

100
110
Receive request from first user from group of users for empty export container
120
Notify group of users of the request
130
Receive offer from second user of group of users to match request by exchanging empty import container owned or leased by shipping line
140
Notify first user of offer
150
If offer is accepted by first user, determining if empty import container is approved by shipping line to be exchanged as empty export container
160
If empty import container is approved, notifying first and second users to exchange empty import container as empty export container
End

Figure 1



Legend:

- SL – shipping line
- TC – transport company
- MS – match status
- JS – job status
- PAL – pre-approved list
- JT – job type
- EDI data exchange format

Code References:

- BC - BookingController
- BR – BookingRepository
- BH – BookingHelpers
- SLC - ShippingLineController
- SOC - ServiceOperationController
- SOH – ServiceOperationHelpers
- ECH - ExchangeCreateHelper

Figure 2

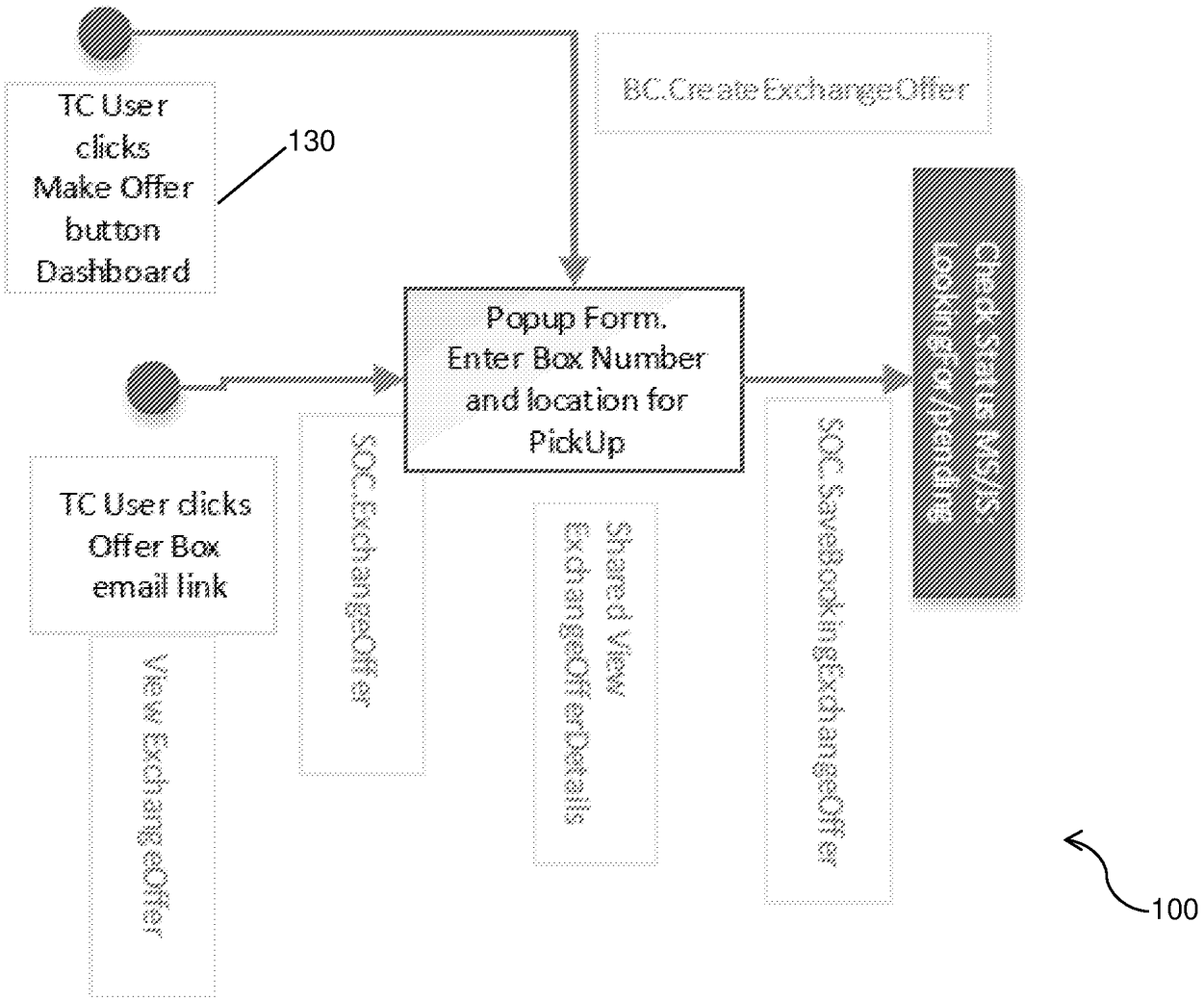

TC User clicks Make Offer button Dashboard
130
TC User clicks Offer Box email link
View Exchange Offer
BC.Create Exchange Offer
SOC.ExchangeOffer
Popup Form. Enter Box Number and location for PickUp
Shared View ExchangeOfferDetails
SOC.SaveBookingExchangeOffer
Open Status Page Confirmation
100

Figure 3

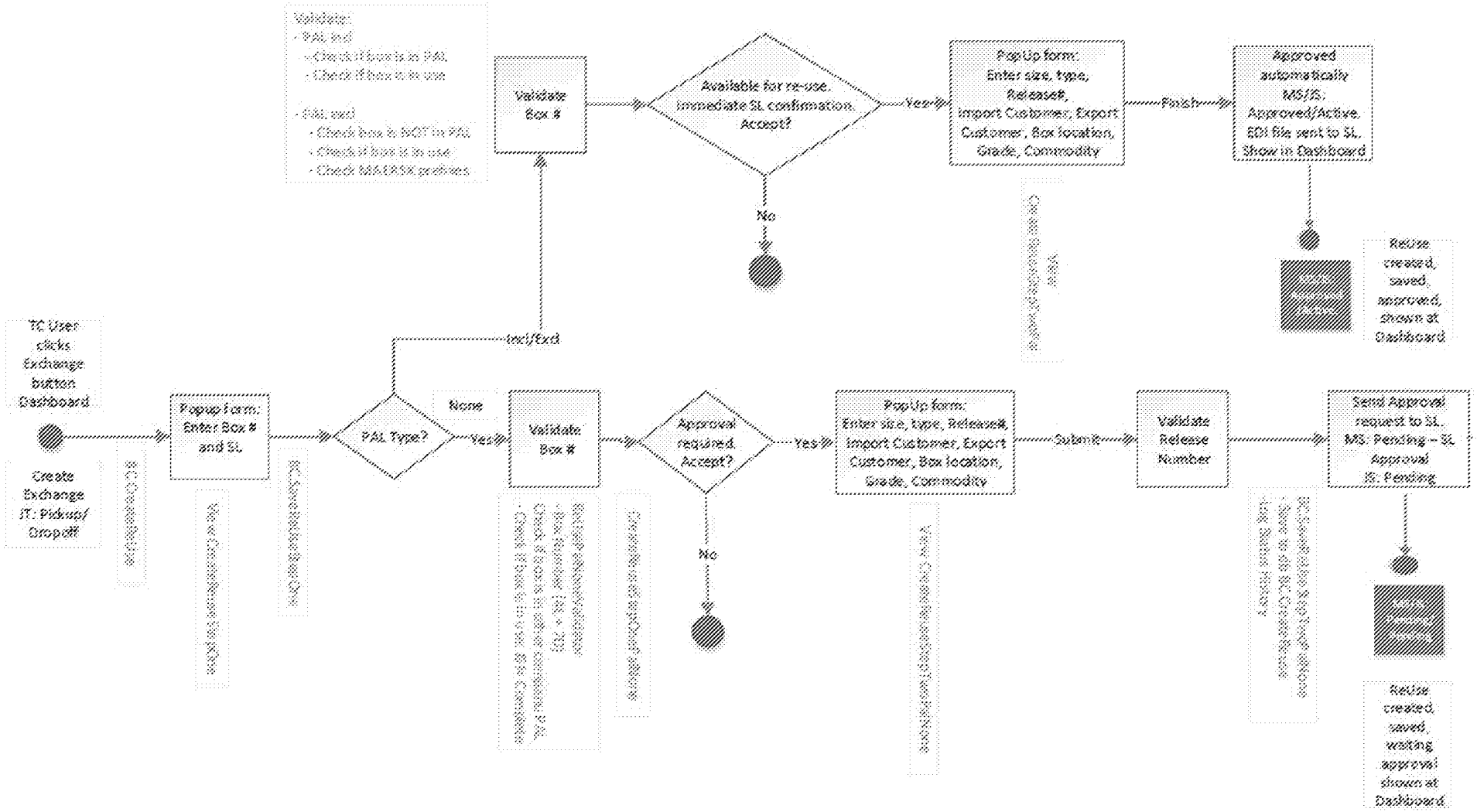

TC User clicks Exchange button Dashboard
Create Exchange IT: Pickup/ Dropoff
Popup form: Enter Box # and SL
PAL Type?
None
Yes
Int/Ext
Validate Box #
Validate:
- PAL Int
- Check if box is in PAL
- Check if box is in use
- PAL ext
- Check box is NOT in PAL
- Check if box is in use
- Check MM/DDM profiles
Validate Box #
Available for re-use. Immediate SL confirmation. Accept?
Yes
No
Approval required. Accept?
Yes
No
PopUp form: Enter size, type, Release#, Import Customer, Export Customer, Box location, Grade, Commodity
Submit
PopUp form: Enter size, type, Release#, Import Customer, Export Customer, Box location, Grade, Commodity
Finish
Validate Release Number
Approved automatically MS/IS. Approved/Active. EDI file sent to SL. Show in Dashboard
Send Approval request to SL. MS: Pending – SL Approval IS: Pending
Reuse created, saved, approved, shown at Dashboard
Reuse created, saved, waiting approval shown at Dashboard

Figure 4

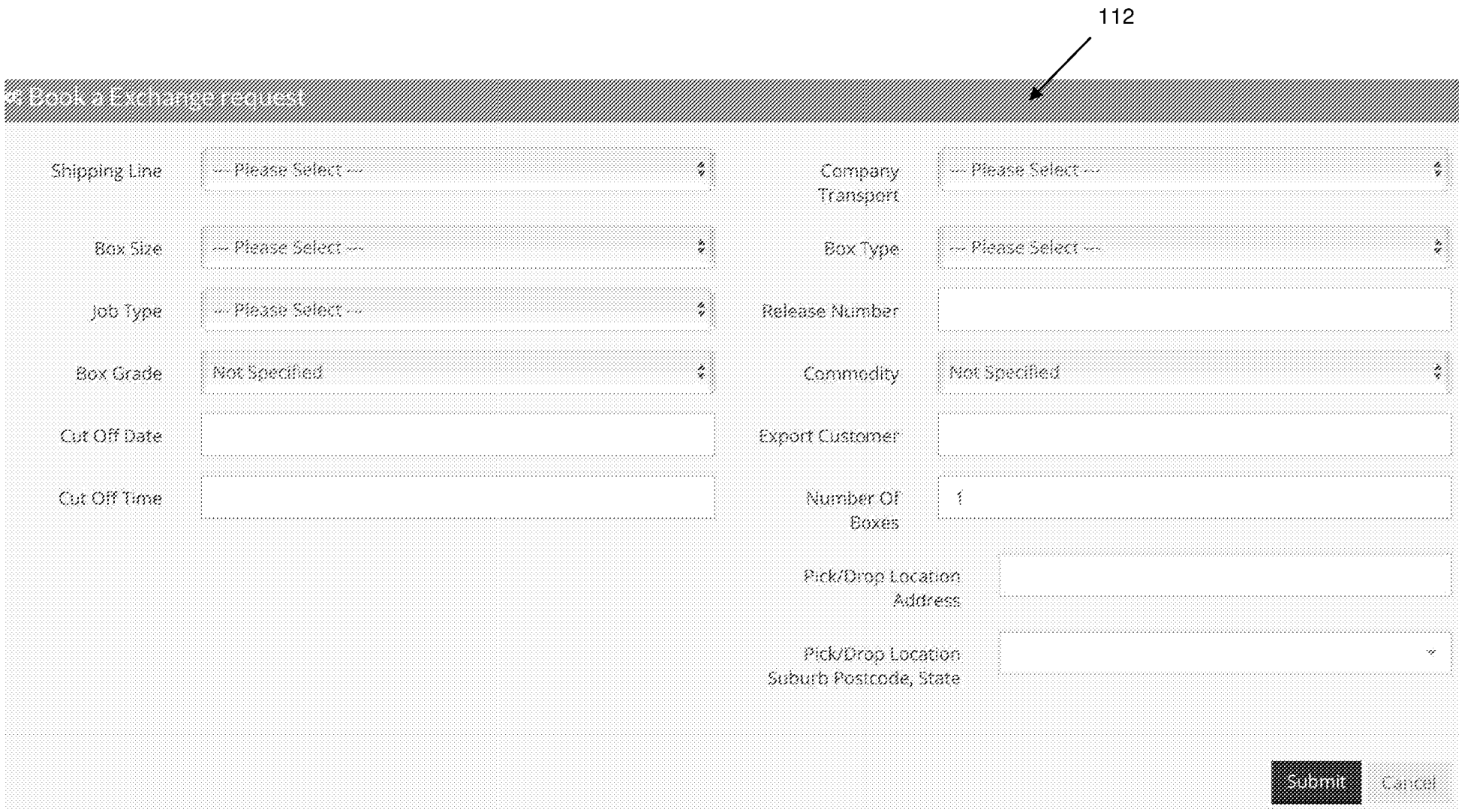

112
Book a Exchange request
Shipping Line
--- Please Select ---
Company Transport
--- Please Select ---
Box Size
--- Please Select ---
Box Type
--- Please Select ---
Job Type
--- Please Select ---
Release Number
Box Grade
Not Specified
Commodity
Not Specified
Cut Off Date
Export Customer
Cut Off Time
Number Of Boxes
1
Pick/Drop Location Address
Pick/Drop Location Suburb Postcode, State
Submit
Cancel

Figure 5

122

EXCHANGE Request

Dear MATCH Port Logistics,

The below request has been posted on MATCH BOX. Please confirm if you are able to supply matching containers before cut-off by clicking the link below .

For:	SEQH
Shipping Line:	OOCL (SLA)
Size:	40
Type:	HC
Onto Release number:	4041014980
Drop-Off:	SEQH OCC PAULO Hemmant, QLD 4174
Cut OFF:	23/01/2017 22:00

BEFORE OFFERING ANY CONTAINERS FOR EXCHANGE PLEASE ENSURE THAT YOU INSPECT CONTAINERS TO CONFIRM THEY ARE CLEAN, FREE OF DAMAGE AND FIT FOR USE AS PER OUR STANDARD TERMS & CONDITIONS.

OFFER CONTAINERS FOR EXCHANGE

Regards

MATCH BOX Exchange

Figure 6

Home > Dashboard

Pendings

BOOK - RE-USE | BOOK - EXCHANGE

Date Of Request	Job Type	Cut Off	Line	Box Size	Box Type	Box Number	Release Number	Wire	For	Pick/Drop Location	Match Status	Job Status	Action
	All		All	All	All			All	All		All	All	Search Clear
04/02/2017 21:51	Drop-off	17/02/2017 14:00	COSCO Shipping	40	HC		6127373777		Tasman Logistics	VISY Somerton, VIC 3062	Looking for	Pending	Make Offer
04/02/2017 21:51	Drop-off	17/02/2017 14:00	COSCO Shipping	40	HC		6127373777		Tasman Logistics	VISY Somerton, VIC 3062	Looking for	Pending	Make Offer
04/02/2017 21:51	Drop-off	17/02/2017 14:00	COSCO Shipping	40	HC		6127373777		Tasman Logistics	VISY Somerton, VIC 3062	Looking for	Pending	Make Offer
04/02/2017 21:50	Drop-off	10/02/2017 23:00	MAERSK Australia Pty Ltd	40	HC		612838393		Santa Fe Relocation Services	Depot Acacia Ridge, QLD 4110	Looking for	Pending	Make Offer
04/02/2017 21:50	Drop-off	10/02/2017 23:00	MAERSK Australia Pty Ltd	40	HC	MSKU7778393	612838393	SEQR	Santa Fe Relocation Services	Depot Acacia Ridge, QLD 4110	Looking for	Offer	
04/02/2017 21:48	Drop-off	10/02/2017 14:00	OOCL (SLA)	40	HC	OOCL7277393	403757377	SEQR	Allied Pickfords	Depot Rothlands, QLD 4077	Looking for	Offer	
04/02/2017 21:31	Drop-off	10/02/2017 15:00	COSCO Shipping	40	HC		6140424244		MATCH Port Logistics	DEPOT Lytton, QLD 4178	Looking for	Pending	Make Offer
04/02/2017 21:31	Drop-off	10/02/2017 15:00	COSCO Shipping	40	HC		6140424244		MATCH Port Logistics	DEPOT Lytton, QLD 4178	Looking for	Pending	Make Offer
04/02/2017 21:31	Drop-off	10/02/2017 15:00	COSCO Shipping	40	HC	CMAU8857777	6140424244	SEQR	MATCH Port Logistics	DEPOT Lytton, QLD 4178	Looking for	Offer	

Figure 7

132

Exchange Offer Request

Dear MATCH Port Logistics,

Box is offered for exchange.

142

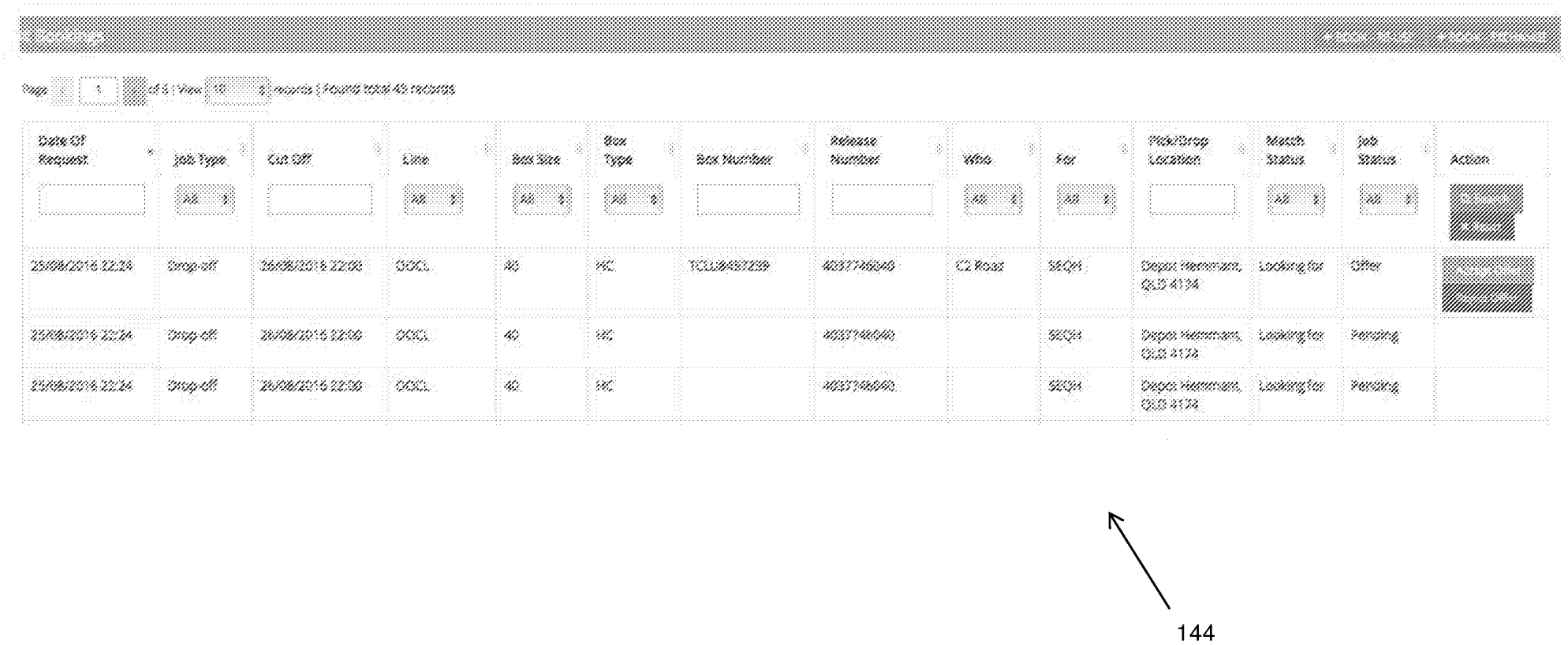
JobType:	Drop-off
Address:	DEPOT Lytton, QLD 4178
Cut Off:	10/02/2017 15:00
Container Number:	CMAU8887777
Offered by:	SEQH
Size:	40
Type:	HC
Onto Release number:	6142424244

Please use the link to review and approve/reject offers

Regards

MATCH BOX Exchange

Figure 8


Page 1 of 5 | View 10 records | Found total 49 records
Date Of Request
Job Type
Cut Off
Line
Box Size
Box Type
Box Number
Release Number
Who
For
Pick/Drop Location
Match Status
Job Status
Action
All
25/08/2016 22:24
Drop-off
26/08/2016 22:00
OOCL
40
HC
TCLU8497239
4037746048
C2 Road
SEQH
Depot Hermann, QLD 4124
Looking for
Offer
25/08/2016 22:24
Drop-off
26/08/2016 22:00
OOCL
40
HC
4037746049
SEQH
Depot Hermann, QLD 4124
Looking for
Pending
25/08/2016 22:24
Drop-off
26/08/2016 22:00
OOCL
40
HC
4037746050
SEQH
Depot Hermann, QLD 4124
Looking for
Pending

144

Figure 9

RE-USE Request

Dear OOCL (SLA),

We seek your approval to RE-USE this container as set out below.

Container Number:	OOLU8385014
Size:	40
Type:	HC
Onto Release number:	4041208180

PLEASE CLICK ON THE LINK BELOW TO APPROVE OR DISAPPROVE THIS REQUEST.

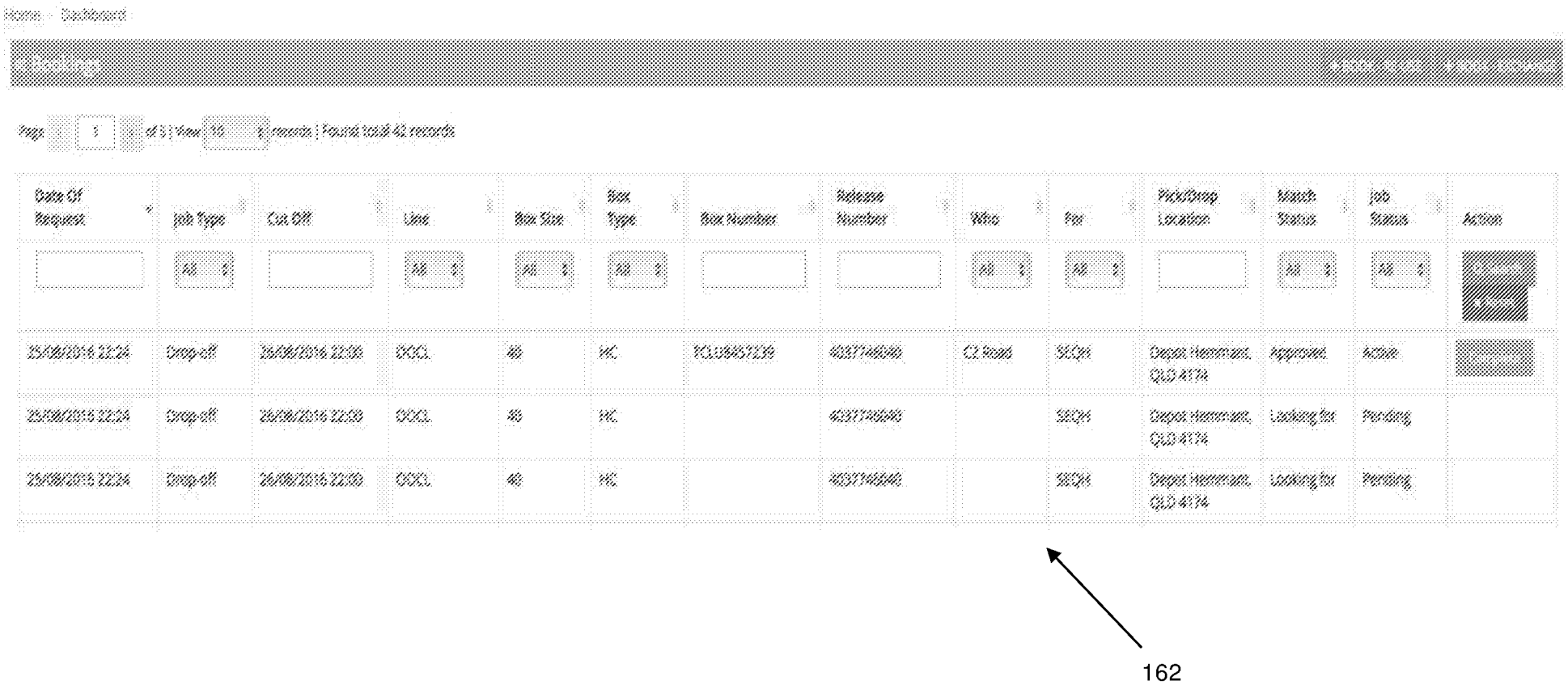
APPROVED NOT-APPROVED

Regards

MATCH BOX Exchange

152

Figure 10



162

Figure 11

Home > Dashboard

Bookings

BOOK - RE-USE | BOOK - EXCHANGE

Date Of Request	Job Type	Cut Off	Line	Box Size	Box Type	Box Number	Release Number	Who	For	Pick/Drop Location	Match Status	Job Status	Action
	All		All	All	All			All	All		All	All	Q Search Filter
11/10/2016 14:31	Internal		COSCO Five Star Shipping	40	HC	[illegible]	[illegible]	SEQH	SEQH	DEPOT Hemmant, QLD 4174	Pending	Pending	Reminder
10/10/2016 21:17	Internal		COSCO Five Star Shipping	20	GP	[illegible]	[illegible]	SEQH	SEQH	METRO TILES Banyo, QLD 4014	Pending	Pending	Reminder
15/09/2016 23:35	Internal		HANJIN SHIPPING	40	HC	[illegible]	[illegible]	SEQH	SEQH	Depot Hemmant, QLD 4174	Pending	Pending	Reminder
17/08/2016 10:38	Internal		COSCO Five Star Shipping	40	HC	[illegible]	[illegible]	SEQH	SEQH	DEPOT Hemmant, QLD 4174	Approved	Active	Complete
08/08/2016 12:46	Internal		OOCL	20	GP	[illegible]	[illegible]	SEQH	SEQH	DEPOT Hemmant, QLD 4174	Approved	Active	Complete
08/08/2016 12:48	Internal		OOCL	20	GP	[illegible]	[illegible]	SEQH	SEQH	DEPOT Toowoomba, QLD 4350	Approved	Active	Complete

Figure 12

164

BOOK - RE-USE
BOOK - EXCHANGE
For
Pick/Drop Location
Match Status
Job Status
Action
All
All
Search
Reset
Approved
Looking for
Pending
Rejected
SEQH
ALTONA Depot
Altona, VIC
3018
Complete
166

Figure 13

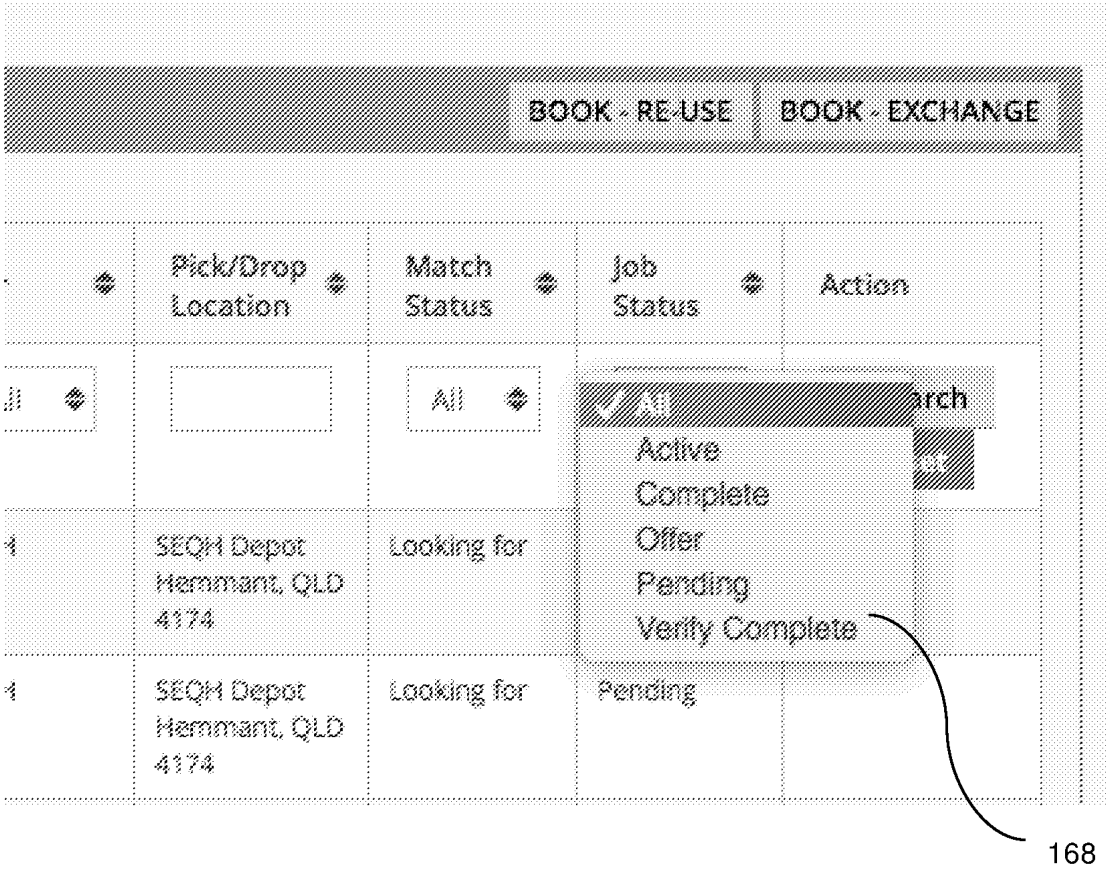

BOOK - RE-USE
BOOK - EXCHANGE
Pick/Drop Location
Match Status
Job Status
Action
All
All
Active
Complete
Offer
Pending
Verify Complete
SEQH Depot Hemmant, QLD 4174
Looking for
SEQH Depot Hemmant, QLD 4174
Looking for
Pending
168

Figure 14

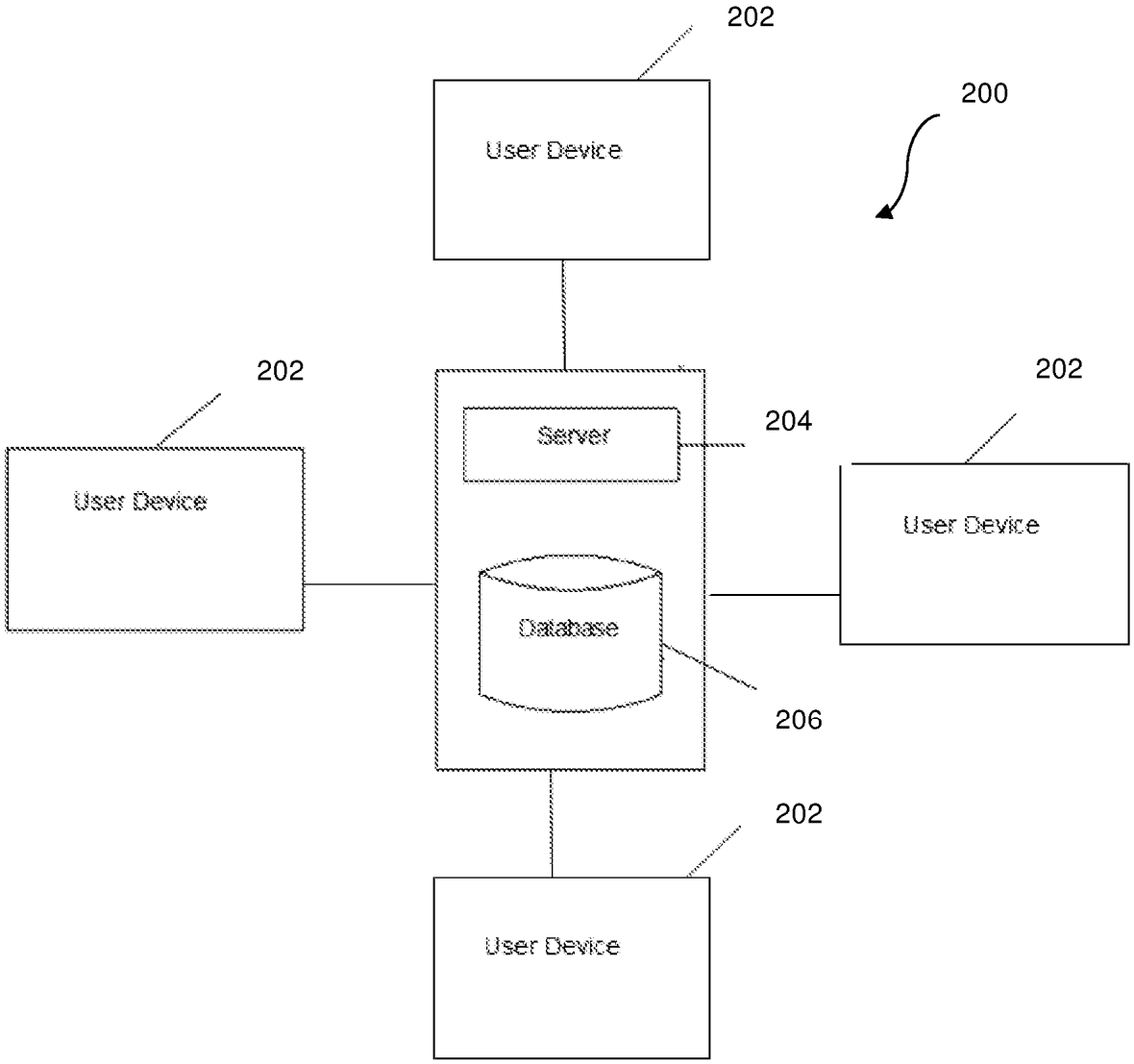

202
200
User Device
202
202
Server
204
User Device
User Device
Database
206
202
User Device

Figure 15

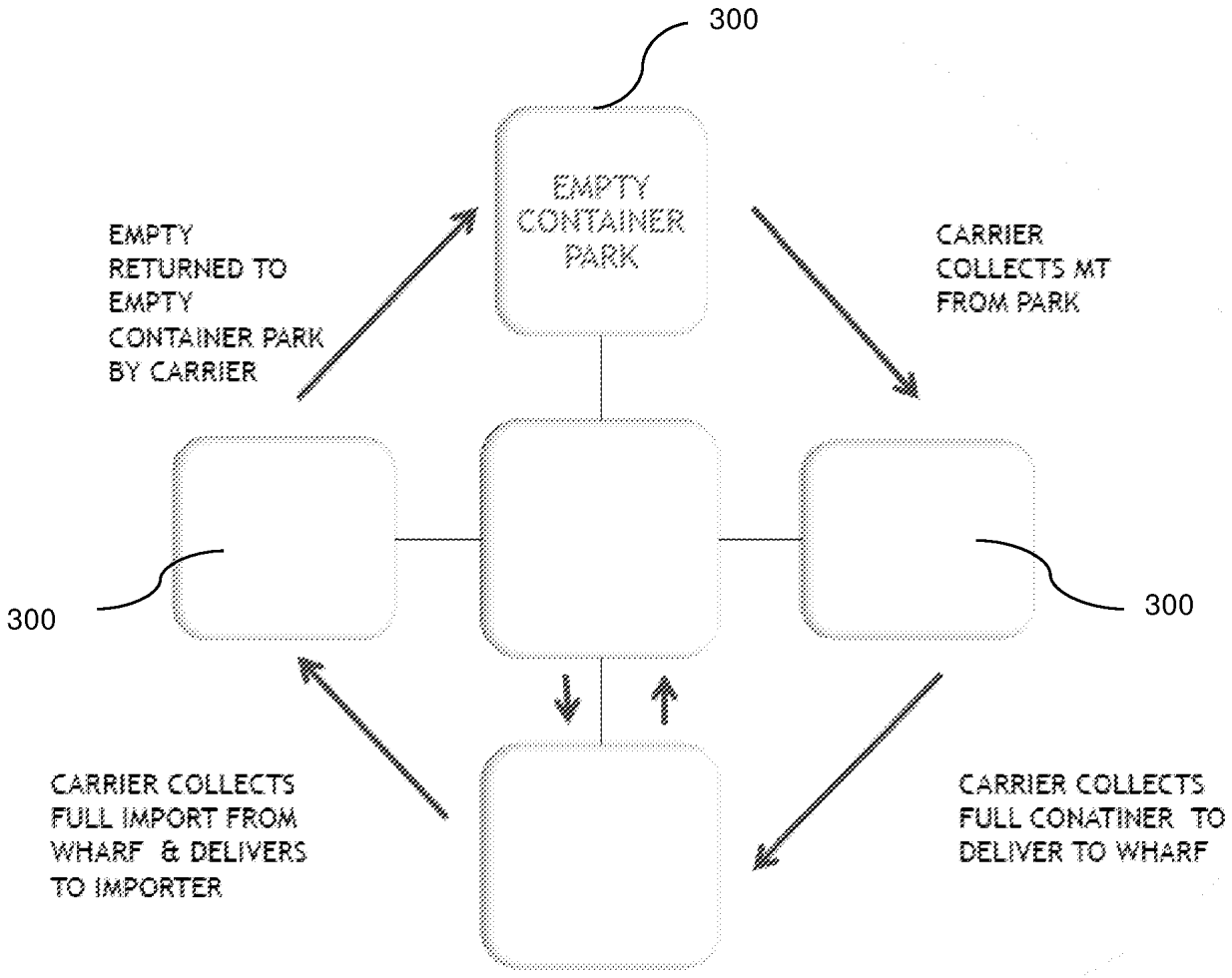

300
EMPTY CONTAINER PARK
EMPTY RETURNED TO EMPTY CONTAINER PARK BY CARRIER
CARRIER COLLECTS MT FROM PARK
300
300
CARRIER COLLECTS FULL IMPORT FROM WHARF & DELIVERS TO IMPORTER
CARRIER COLLECTS FULL CONATINER TO DELIVER TO WHARF

Figure 16

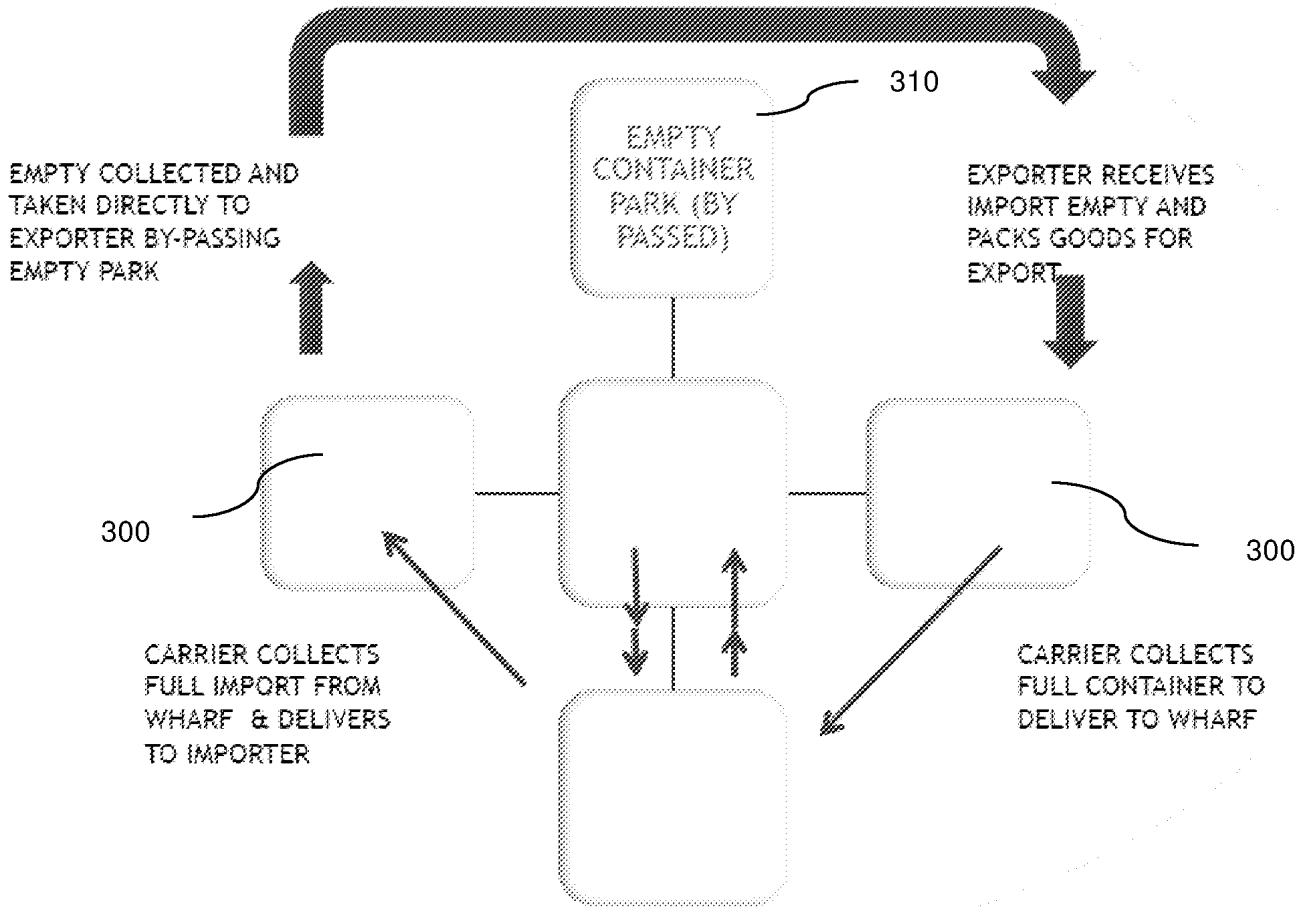

310
EMPTY CONTAINER PARK (BY PASSED)
EMPTY COLLECTED AND TAKEN DIRECTLY TO EXPORTER BY-PASSING EMPTY PARK
EXPORTER RECEIVES IMPORT EMPTY AND PACKS GOODS FOR EXPORT
300
300
CARRIER COLLECTS FULL IMPORT FROM WHARF & DELIVERS TO IMPORTER
CARRIER COLLECTS FULL CONTAINER TO DELIVER TO WHARF

Figure 17

Home > Dashboard

Automatic Online Exchange

ReUses | Offers | ✔ BOQK Exchange

| Found total 58 records

Line	Box Size	Box Type	Release Number	Export Customer	Job Type	Cut Off Date	Cut Off Time	Box Grade	Commodity		Select
All	All	All									Search / Reset
COSCO Shipping Lines (SLA)	20	GP	8166806810	Deacon Seeds	Drop-off	31/01/2018	12:00	General Car	SCRAP - PAPER/PLAS		
MAERSK Australia (Instant Approval)	40	HC	963574845	USG BORAL	Drop-off	31/01/2018	12:00	General Car	SCRAP - PAPER/PLAS	Copy From Above	
MAERSK Australia (Instant Approval)	40	HC	963574845	USG BORAL	Drop-off	31/01/2018	12:00	General Car	SCRAP - PAPER/PLAS	Copy From Above	
MAERSK Australia (Instant Approval)	40	HC	963574845	USG BORAL	Drop-off	31/01/2018	12:00	General Car	SCRAP - PAPER/PLAS	Copy From Above	
MAERSK Australia (Instant Approval)	40	HC	963574845	USG BORAL	--- Please Se			--- Please Se	--- Please Select ---	Copy From Above	
MAERSK Australia (Instant Approval)	40	HC	963574845	USG BORAL	--- Please Se			--- Please Se	--- Please Select ---	Copy From Above	

170

Figure 18

Home > Dashboard

Found total 60 records

Line	Export Customer	Box Size	Box Type	Release Number	Status	Service type	Location	Delivery Date	Import Id	Booking Id	File Name
COSCO Shipping Lines (SLA)	Deacon Seeds	20	GP	6166606600	Booked	Trailer	10 Knight ST, Dalby, QLD 4405	29/01/2018			sesh-ti-export-2601181402
COSCO Shipping Lines (SLA)	GENUINE RECYCLING	40	HC	6166611320	Booked	Side Loader	120 GOSPORT STREET, Hemmant, QLD 4174	29/01/2018			sesh-ti-export-2601181402
MAERSK Australia (Instant Approval)	Visscom plastics	40	HC	963753276	Booked	Side Loader	188 COBALT STREET, Carole Park, QLD 4300	29/01/2018			sesh-ti-export-2601181402
MAERSK Australia (Instant Approval)	USG BORAL	40	HC	963574849	Booked	Side Loader	22 KIRRA ST, Pinkenba, QLD 4008	29/01/2018			sesh-ti-export-2601181402
MAERSK Australia (Instant Approval)	USG BORAL	40	HC	963574845	Booked	Side Loader	22 KIRRA ST, Pinkenba, QLD 4008	29/01/2018			sesh-ti-export-2601181402
MAERSK Australia (Instant Approval)	USG BORAL	40	HC	963574846	Booked	Side Loader	22 KIRRA ST, Pinkenba, QLD 4008	29/01/2018			sesh-ti-export-2601181402
MAERSK Australia (Instant Approval)	USG BORAL	40	HC	963574835	Booked	Side Loader	22 KIRRA ST, Pinkenba, QLD 4008	29/01/2018			sesh-ti-export-2601181402

Figure 19

172

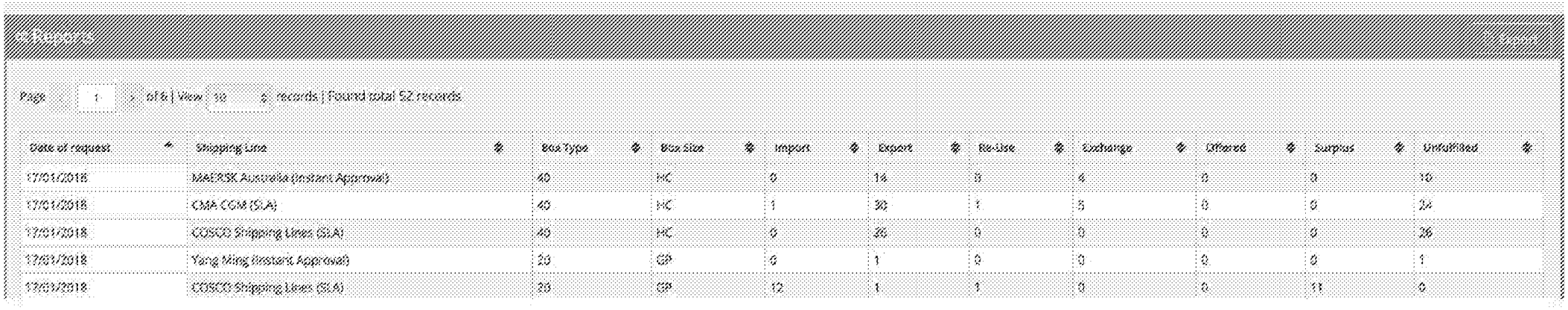
Home > Dashboard

Found total 29 records

Company	Import Customer	Box Size	Box Type	Box Number	Status	Service type	Location	Delivery Date	Export id	Booking id	File Name
ANL (SLA)	ETS 2	20	GP	CMAU1993365	MT Yard	Trailer	40 MOORE ROAD, Toowoomba, QLD 4350	21/12/2017			seqh-d-import-2601181401
COSCO Shipping Lines (SLA)	SOUTHSIDE FITNESS	20	GP	TCLU6878640	At Customer	Trailer	U7, 429 CREEK ROAD, Mount Gravatt, QLD 4122	29/01/2018			seqh-d-import-2601181401
COSCO Shipping Lines (SLA)	Lloyds Auctions	40	HC	YMLU8080747	At Customer	Side Loader	CNR RIVERBEND AVE & NERANG RD, Carrara, QLD 4211	16/01/2018			seqh-d-import-2601181401
COSCO Shipping Lines (SLA)	LIGENTIA	40	HC	CCLU4694690	MT Yard	Side Loader	925 RUDGEE ROAD, Banyo, QLD 4014	29/01/2018			seqh-d-import-2601181401
MAERSK Australia (Instant Approval)	FENCEWRIGHT	20	GP	MSKU4397442	At Customer	Trailer	21 KINGTEL PLACE, Geebung, QLD 4034	29/01/2018			seqh-d-import-2601181401
MAERSK Australia (Instant Approval)	SUPERIOR ENGINEERING	40	GP	MSKU2336710	MT Customer	Trailer	498 UHLMANN ROAD, Burpengary, QLD 4505	29/01/2018			seqh-d-import-2601181401

174

Figure 20



Page 1 of 6 | View 10 records | Found total 52 records

Date of request	Shipping Line	Box Type	Box Size	Import	Export	Re-Use	Exchange	Offered	Surplus	Unfulfilled
17/01/2018	MAERSK Australia (Instant Approval)	40	HC	0	14	0	4	0	0	10
17/01/2018	CMA CGM (SLA)	40	HC	1	30	1	5	0	0	24
17/01/2018	COSCO Shipping Lines (SLA)	40	HC	0	26	0	0	0	0	26
17/01/2018	Yang Ming (Instant Approval)	20	GP	0	1	0	0	0	0	1
17/01/2018	COSCO Shipping Lines (SLA)	20	GP	12	1	1	0	0	11	0

176

Figure 21