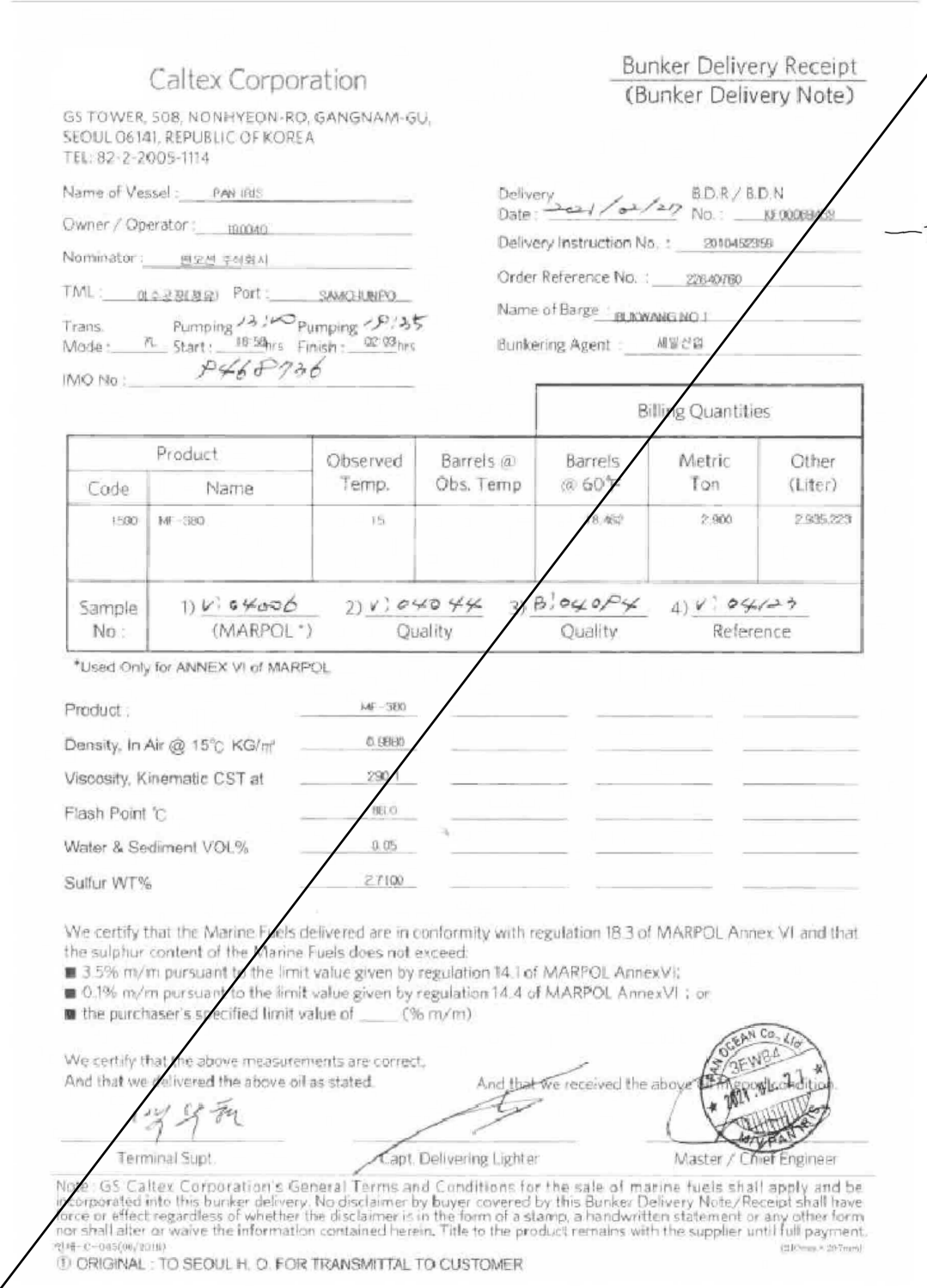
FIG. 1



Caltex Corporation

GS TOWER, 508, NONHYEON-RO, GANGNAM-GU,
SEOUL 06141, REPUBLIC OF KOREA
TEL: 82-2-2005-1114

Bunker Delivery Receipt
(Bunker Delivery Note)

Name of Vessel : PAN IRIS
Owner / Operator : 100040
Nominator : 현오션 주식회사
TML : 여수공장(현물) Port : SAMCHUNPO
Trans. Mode : PL Pumping Start : 18:50 hrs Pumping Finish : 02:03 hrs
IMO No : P468736

Delivery Date : 2021/02/27
B.D.R / B.D.N No. :
Delivery Instruction No. : 2010452359
Order Reference No. : 226407B0
Name of Barge : BUKWANG NO.1
Bunkering Agent : 세일산업

110

Product Code	Product Name	Observed Temp.	Barrels @ Obs. Temp	Billing Quantities: Barrels @ 60°F	Billing Quantities: Metric Ton	Billing Quantities: Other (Liter)
1500	MF-380	15		8,462	2.900	2,935,223

Sample No :	1) V: 64036 (MARPOL*)	2) V: 04044 Quality	3) B: 04054 Quality	4) V: 04123 Reference

*Used Only for ANNEX VI of MARPOL

Product :	MF-380			
Density, In Air @ 15°C KG/m³	0.9880			
Viscosity, Kinematic CST at	290.1			
Flash Point °C	80.0			
Water & Sediment VOL%	0.05			
Sulfur WT%	2.7100			

We certify that the Marine Fuels delivered are in conformity with regulation 18.3 of MARPOL Annex VI and that the sulphur content of the Marine Fuels does not exceed:
■ 3.5% m/m pursuant to the limit value given by regulation 14.1 of MARPOL AnnexVI;
■ 0.1% m/m pursuant to the limit value given by regulation 14.4 of MARPOL AnnexVI ; or
■ the purchaser's specified limit value of ____ (% m/m)

We certify that the above measurements are correct.
And that we delivered the above oil as stated.

And that we received the above oil as stated.

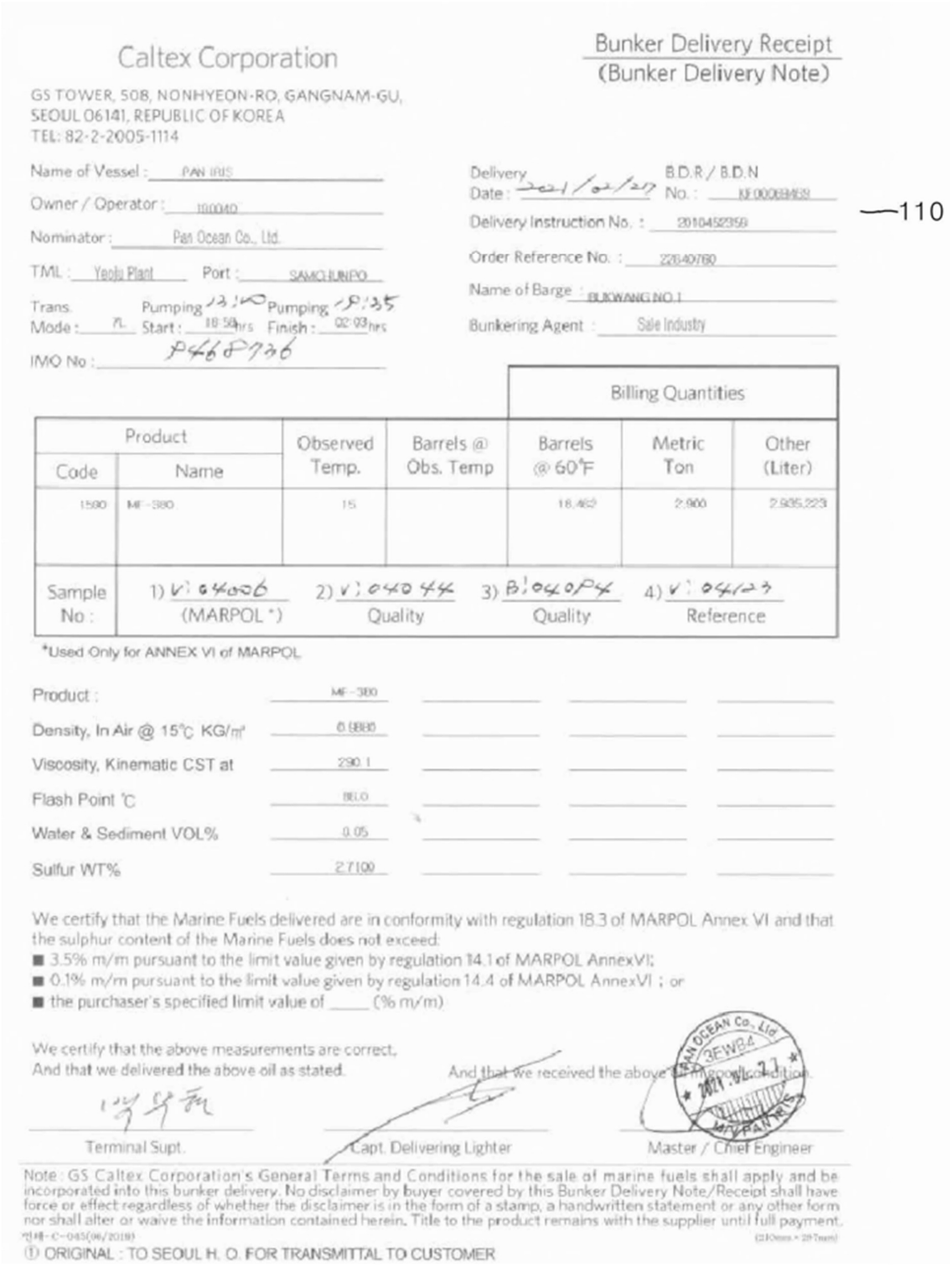
PAN OCEAN Co., Ltd. 3F-W2.4 2021.02.27 PAN IRIS

Terminal Supt. | Capt. Delivering Lighter | Master / Chief Engineer

Note : GS Caltex Corporation's General Terms and Conditions for the sale of marine fuels shall apply and be incorporated into this bunker delivery. No disclaimer by buyer covered by this Bunker Delivery Note/Receipt shall have force or effect regardless of whether the disclaimer is in the form of a stamp, a handwritten statement or any other form nor shall alter or waive the information contained herein. Title to the product remains with the supplier until full payment.

① ORIGINAL : TO SEOUL H. O. FOR TRANSMITTAL TO CUSTOMER

FIG. 1



Caltex Corporation

GS TOWER, 508, NONHYEON-RO, GANGNAM-GU,
SEOUL 06141, REPUBLIC OF KOREA
TEL: 82-2-2005-1114

Bunker Delivery Receipt
(Bunker Delivery Note)

Name of Vessel : PAN IRIS
Owner / Operator : PANOCEAN
Nominator : Pan Ocean Co., Ltd.
TML : Yeosu Plant Port : SAMCHUNPO
Trans. Mode : PL Pumping Start : 18:50 hrs Pumping Finish : 02:03 hrs
IMO No : 9468736

Delivery Date : 2021/02/27
B.D.R / B.D.N No. : KF00088659
Delivery Instruction No. : 2010452359
Order Reference No. : 226407B0
Name of Barge : BUKWANG NO.1
Bunkering Agent : Sale Industry

110

Product		Observed Temp.	Barrels @ Obs. Temp	Billing Quantities: Barrels @ 60°F	Billing Quantities: Metric Ton	Billing Quantities: Other (Liter)
Code	Name					
1580	ME-380	15		18,462	2,900	2,935,223
Sample No :	1) V: 04006 (MARPOL *)	2) V: 04044 Quality	3) B: 04044 Quality	4) V: 04123 Reference		

*Used Only for ANNEX VI of MARPOL

Product :	ME-380			
Density, In Air @ 15℃ KG/㎥	0.9880			
Viscosity, Kinematic CST at	290.1			
Flash Point ℃	80.0			
Water & Sediment VOL%	0.05			
Sulfur WT%	2.7100			

We certify that the Marine Fuels delivered are in conformity with regulation 18.3 of MARPOL Annex VI and that the sulphur content of the Marine Fuels does not exceed:
- 3.5% m/m pursuant to the limit value given by regulation 14.1 of MARPOL AnnexVI;
- 0.1% m/m pursuant to the limit value given by regulation 14.4 of MARPOL AnnexVI ; or
- the purchaser's specified limit value of ____ (% m/m)

We certify that the above measurements are correct,
And that we delivered the above oil as stated.

And that we received the above oil in apparent condition.

PAN OCEAN Co., Ltd. 3F W24 2021.02.27 MV PAN IRIS

Terminal Supt. | Capt. Delivering Lighter | Master / Chief Engineer

Note : GS Caltex Corporation's General Terms and Conditions for the sale of marine fuels shall apply and be incorporated into this bunker delivery. No disclaimer by buyer covered by this Bunker Delivery Note/Receipt shall have force or effect regardless of whether the disclaimer is in the form of a stamp, a handwritten statement or any other form nor shall alter or waive the information contained herein. Title to the product remains with the supplier until full payment.

제ME-C-045(06/2019) (210mm × 297mm)

① ORIGINAL : TO SEOUL H. O. FOR TRANSMITTAL TO CUSTOMER

FIG. 2

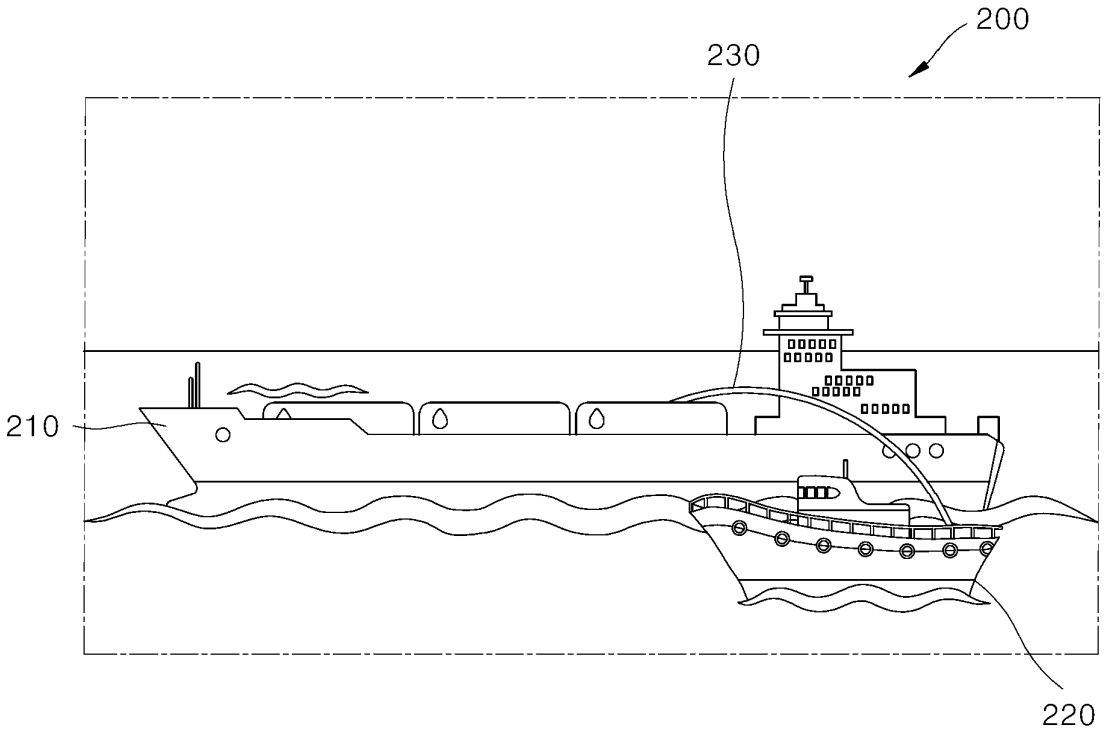

200
230
210
220

FIG. 3

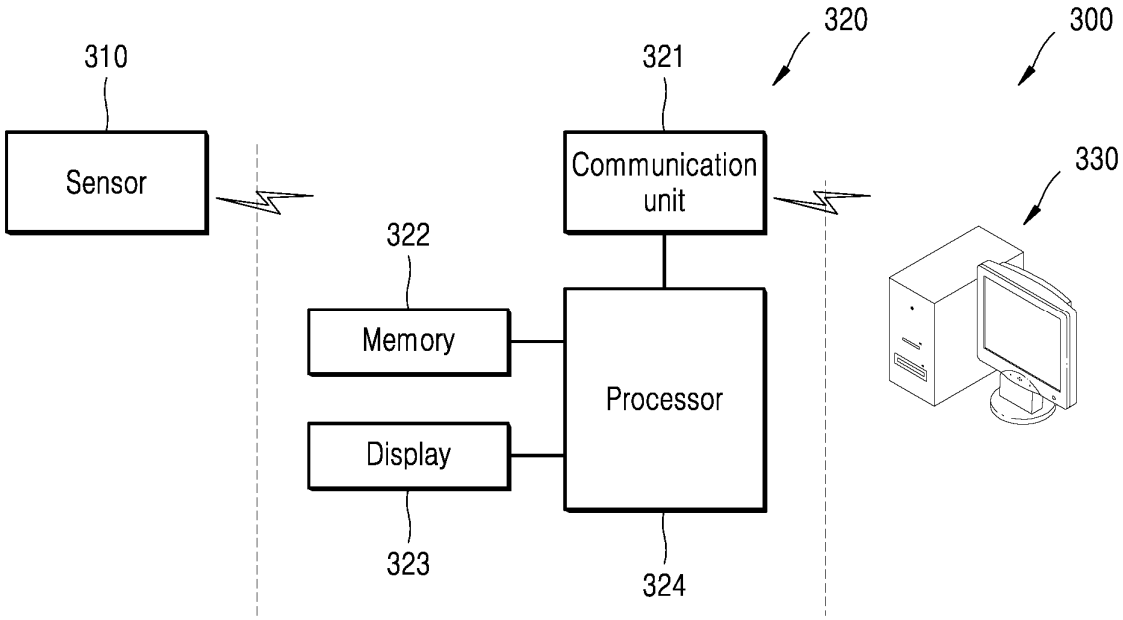

310
Sensor
320
321
Communication unit
300
330
322
Memory
Processor
Display
323
324

FIG. 4

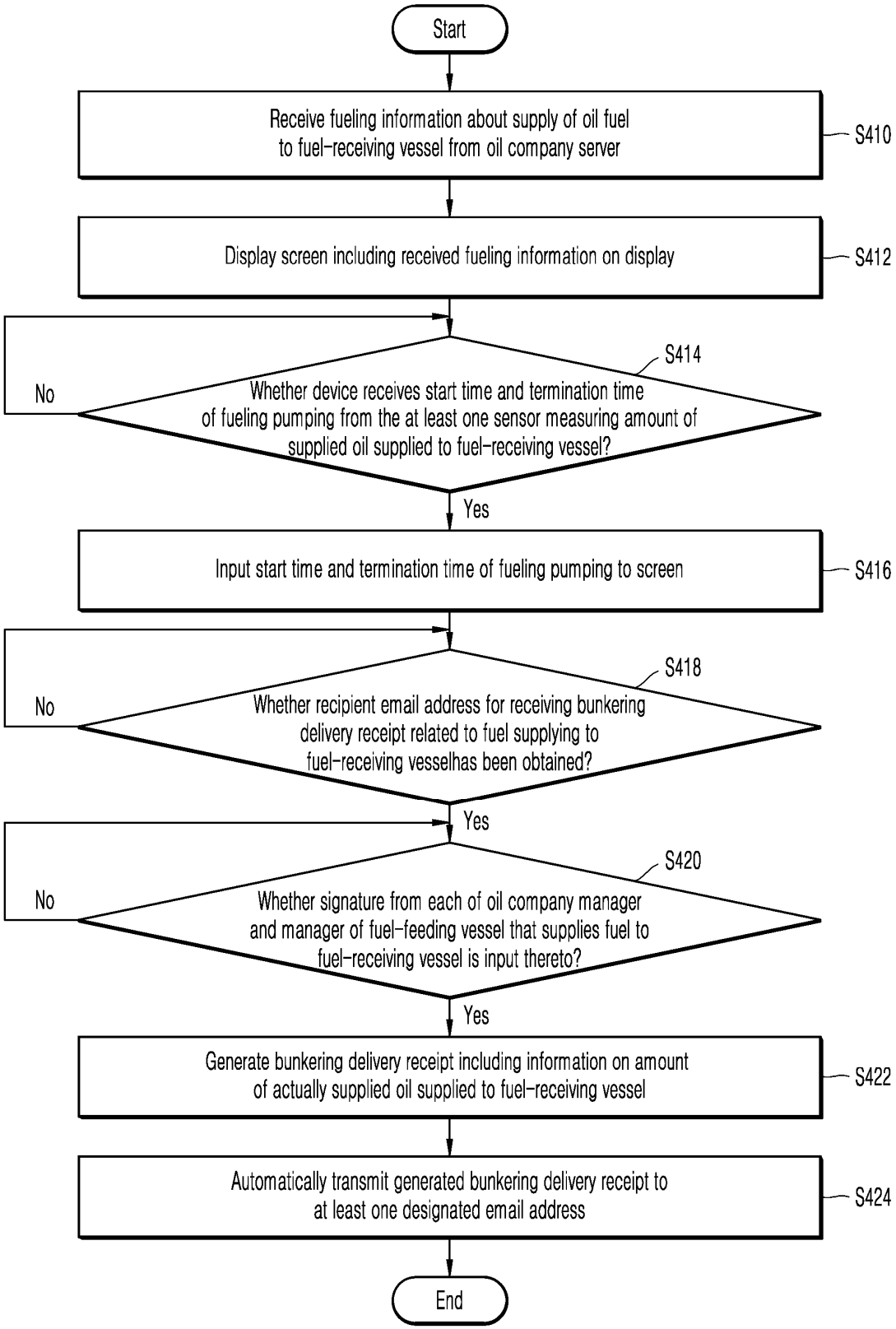

Start
Receive fueling information about supply of oil fuel to fuel-receiving vessel from oil company server
S410
Display screen including received fueling information on display
S412
S414
No
Whether device receives start time and termination time of fueling pumping from the at least one sensor measuring amount of supplied oil supplied to fuel-receiving vessel?
Yes
Input start time and termination time of fueling pumping to screen
S416
S418
No
Whether recipient email address for receiving bunkering delivery receipt related to fuel supplying to fuel-receiving vesselhas been obtained?
Yes
S420
No
Whether signature from each of oil company manager and manager of fuel-feeding vessel that supplies fuel to fuel-receiving vessel is input thereto?
Yes
Generate bunkering delivery receipt including information on amount of actually supplied oil supplied to fuel-receiving vessel
S422
Automatically transmit generated bunkering delivery receipt to at least one designated email address
S424
End

FIG. 5A

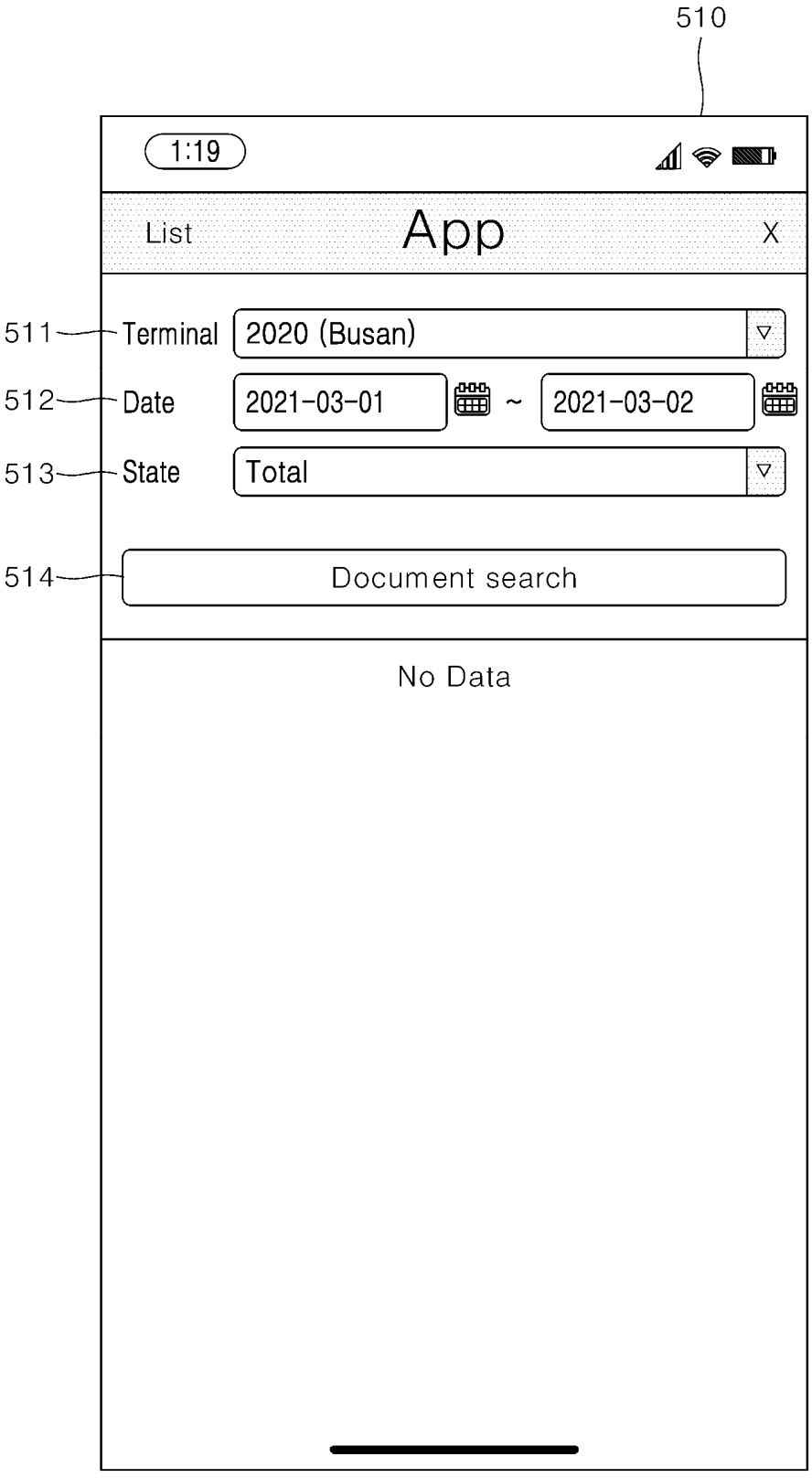

510
1:19
List
App
X
511
Terminal
2020 (Busan)
512
Date
2021-03-01
~
2021-03-02
513
State
Total
514
Document search
No Data

FIG. 5B

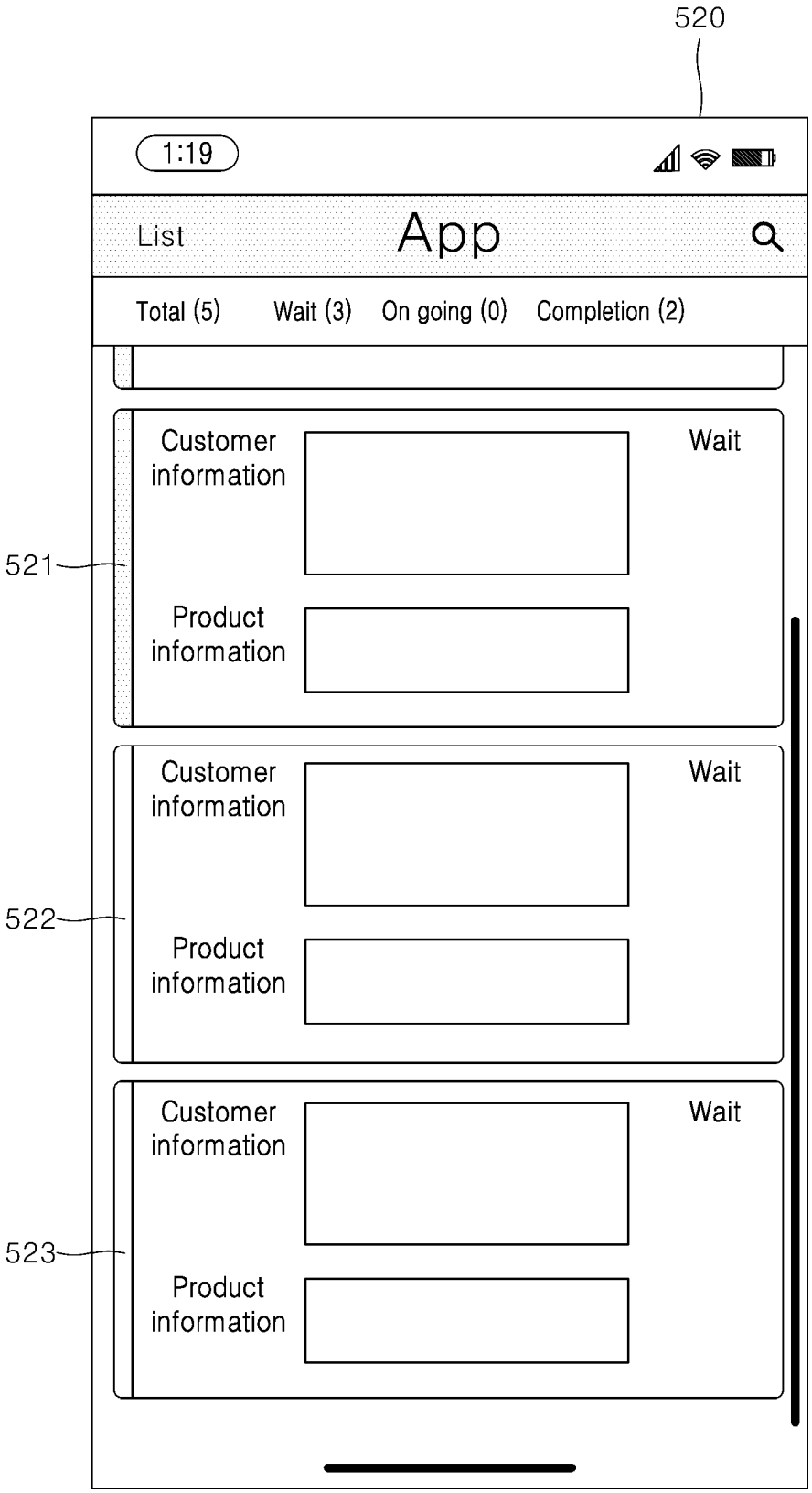

520
1:19
List
App
Total (5)
Wait (3)
On going (0)
Completion (2)
Customer information
Wait
Product information
521
Customer information
Wait
Product information
522
Customer information
Wait
Product information
523

FIG. 5C

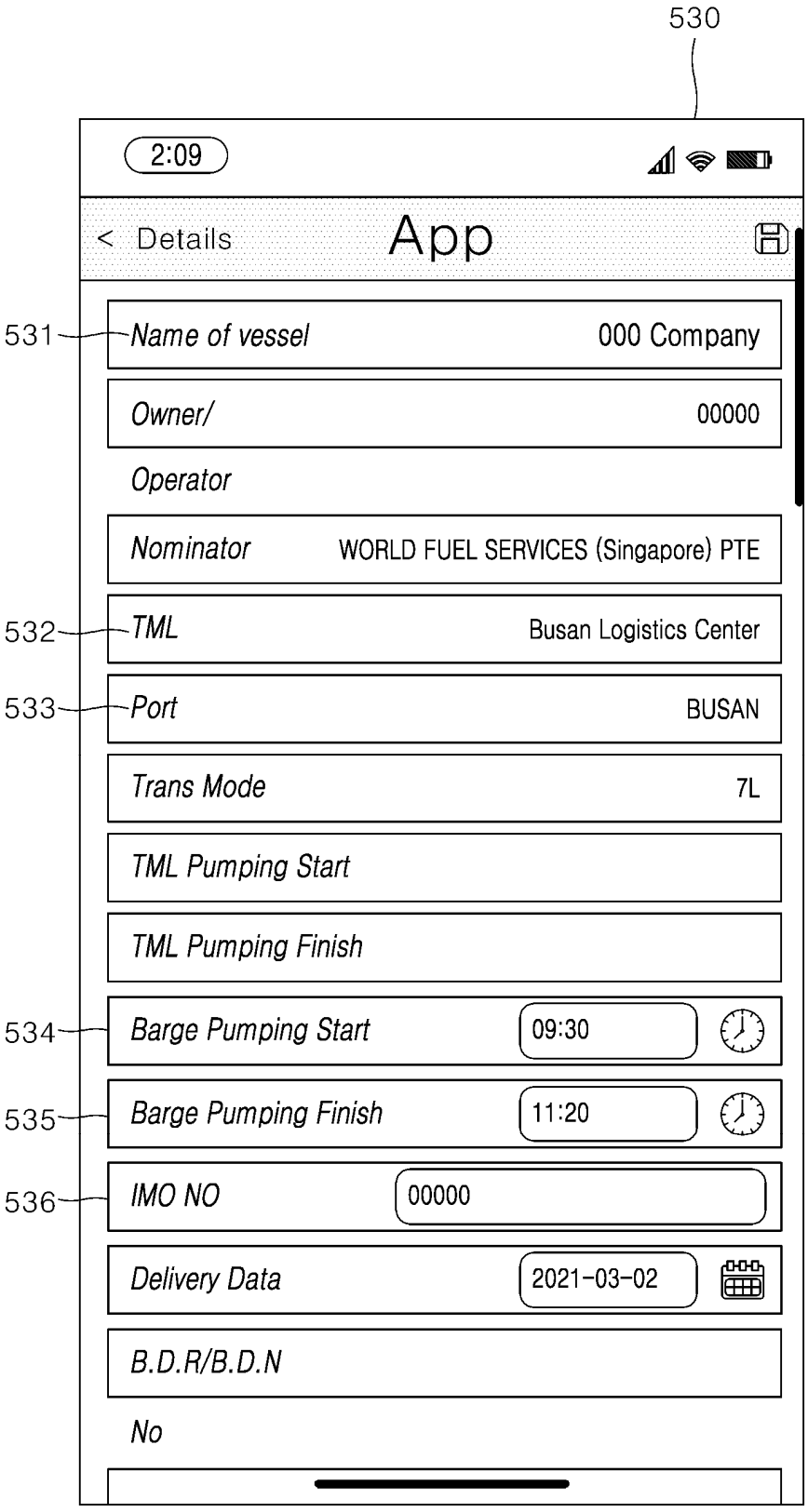

530
2:09
< Details
App
531
Name of vessel
000 Company
Owner/
00000
Operator
Nominator
WORLD FUEL SERVICES (Singapore) PTE
532
TML
Busan Logistics Center
533
Port
BUSAN
Trans Mode
7L
TML Pumping Start
TML Pumping Finish
534
Barge Pumping Start
09:30
535
Barge Pumping Finish
11:20
536
IMO NO
00000
Delivery Data
2021-03-02
B.D.R/B.D.N
No

FIG. 5D

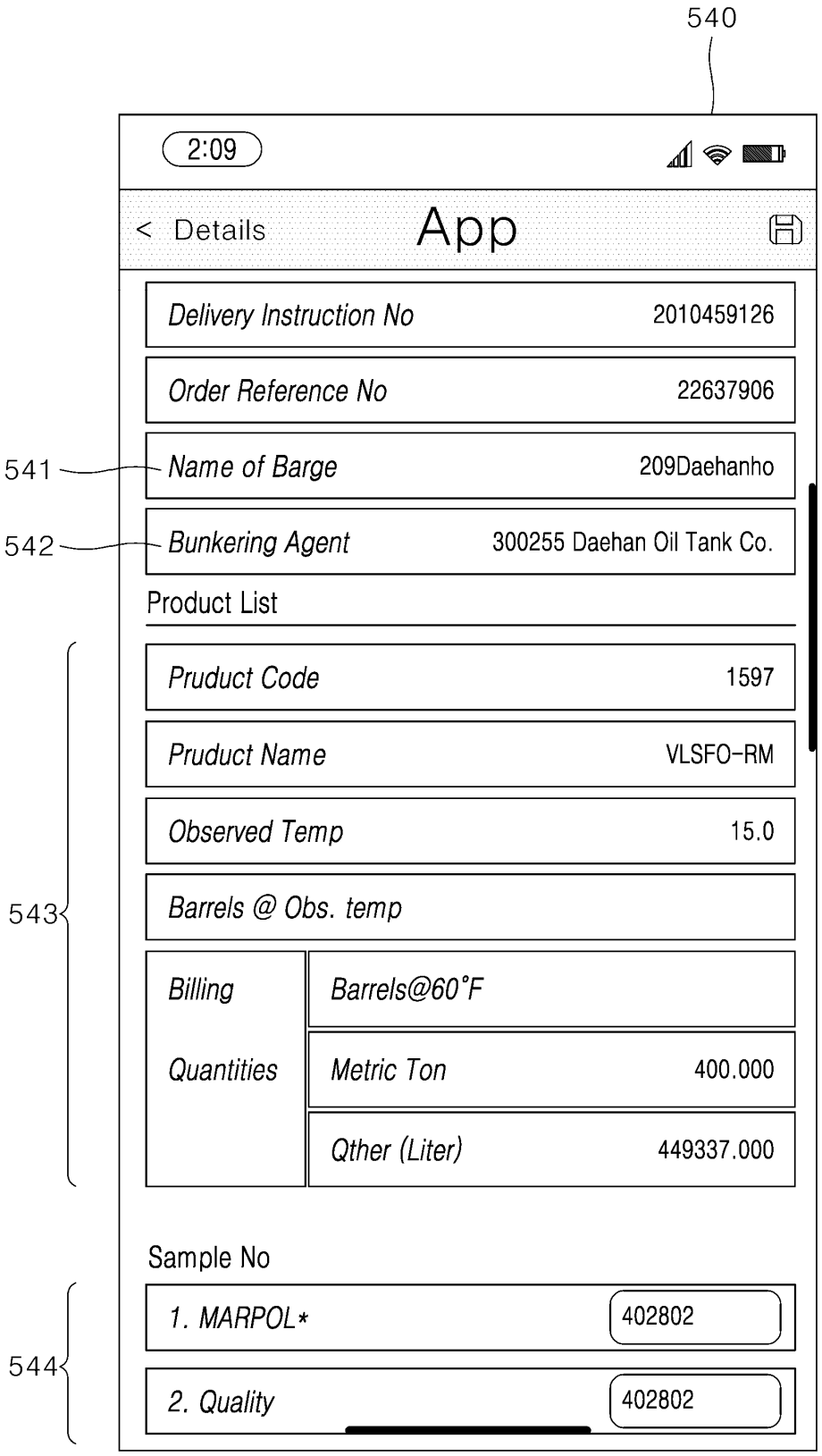

540
2:09
< Details
App
Delivery Instruction No
2010459126
Order Reference No
22637906
541
Name of Barge
209Daehanho
542
Bunkering Agent
300255 Daehan Oil Tank Co.
Product List
543
Pruduct Code
1597
Pruduct Name
VLSFO-RM
Observed Temp
15.0
Barrels @ Obs. temp
Billing Quantities
Barrels@60°F
Metric Ton
400.000
Qther (Liter)
449337.000
Sample No
544
1. MARPOL*
402802
2. Quality
402802

FIG. 5E

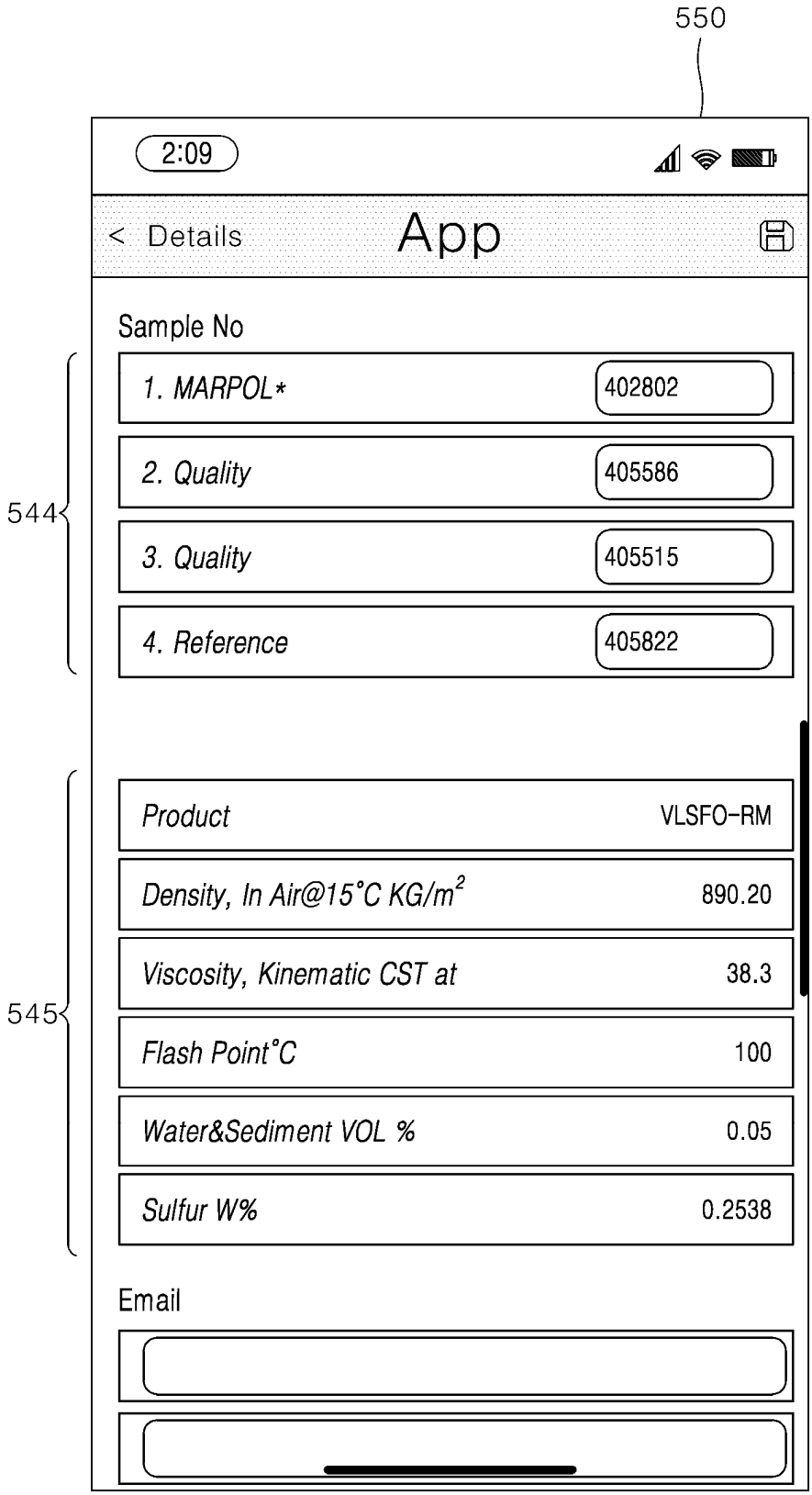

550
2:09
< Details
App
Sample No
1. MARPOL*
402802
2. Quality
405586
3. Quality
405515
4. Reference
405822
544
Product
VLSFO-RM
Density, In Air@15°C KG/m2
890.20
Viscosity, Kinematic CST at
38.3
Flash Point°C
100
Water&Sediment VOL %
0.05
Sulfur W%
0.2538
545
Email

FIG. 5F

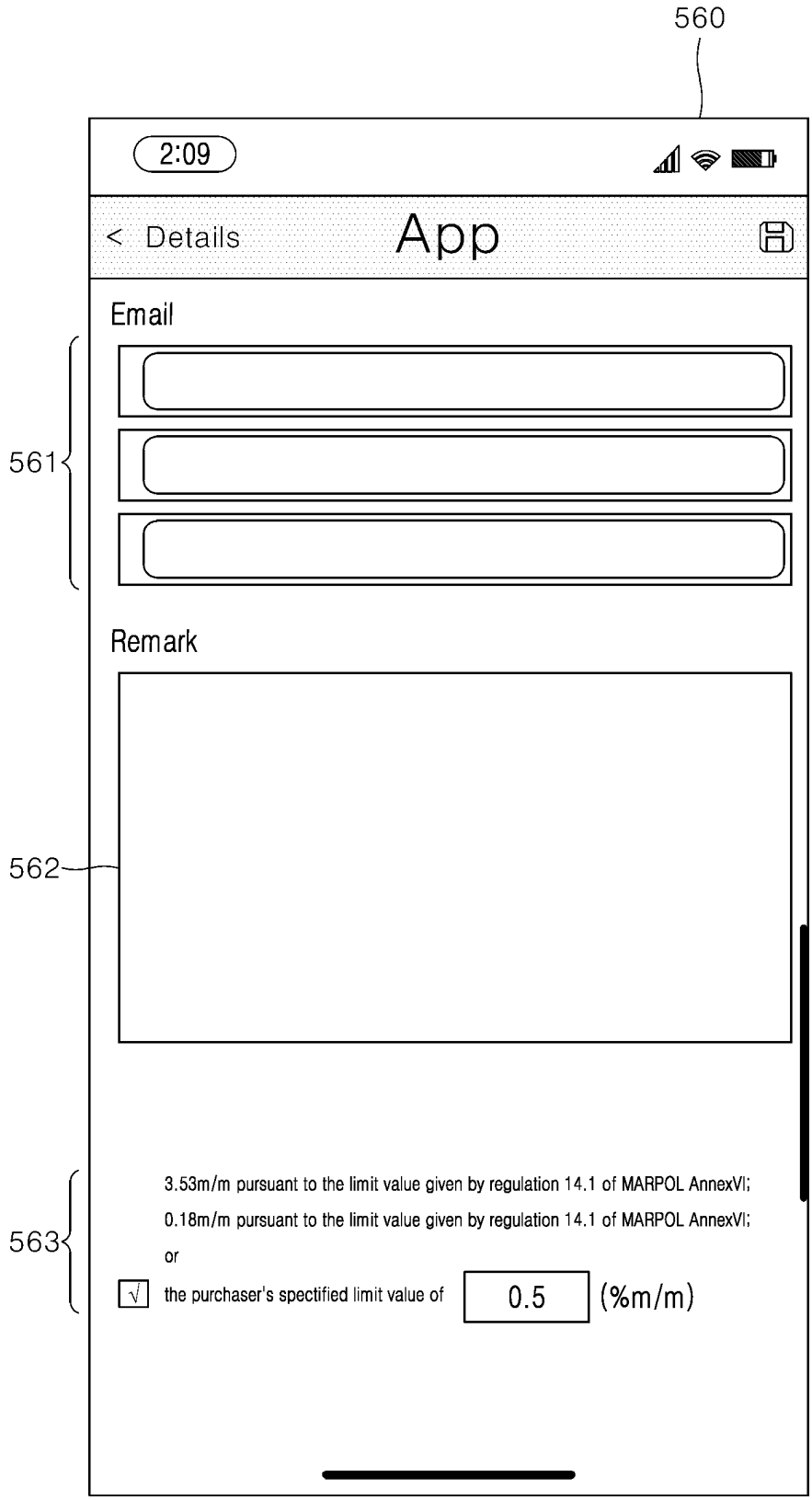

560
2:09
< Details
App
Email
561
Remark
562
563
3.53m/m pursuant to the limit value given by regulation 14.1 of MARPOL AnnexVI;
0.18m/m pursuant to the limit value given by regulation 14.1 of MARPOL AnnexVI;
or
√
the purchaser's spectified limit value of
0.5
(%m/m)

FIG. 5G

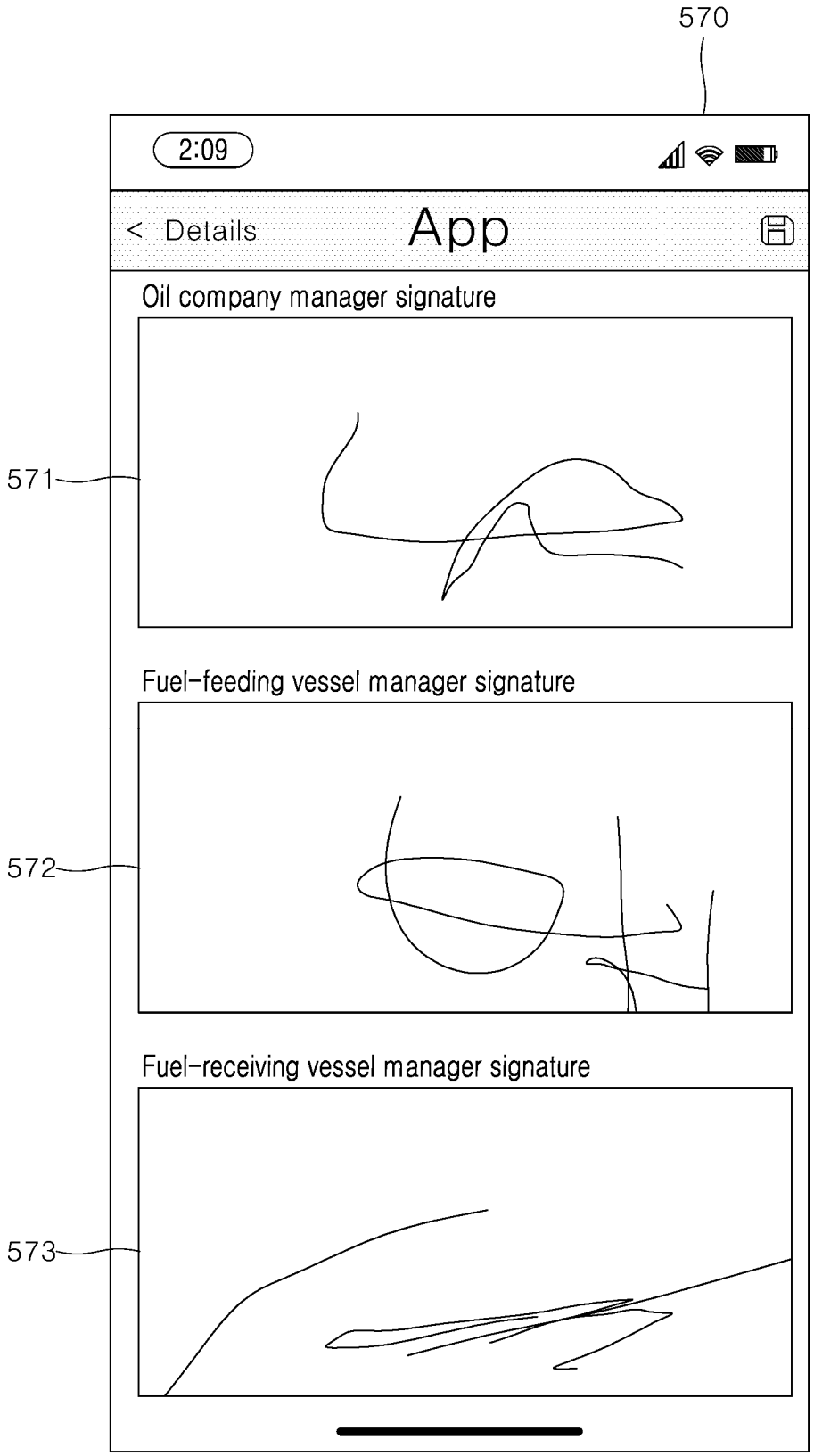
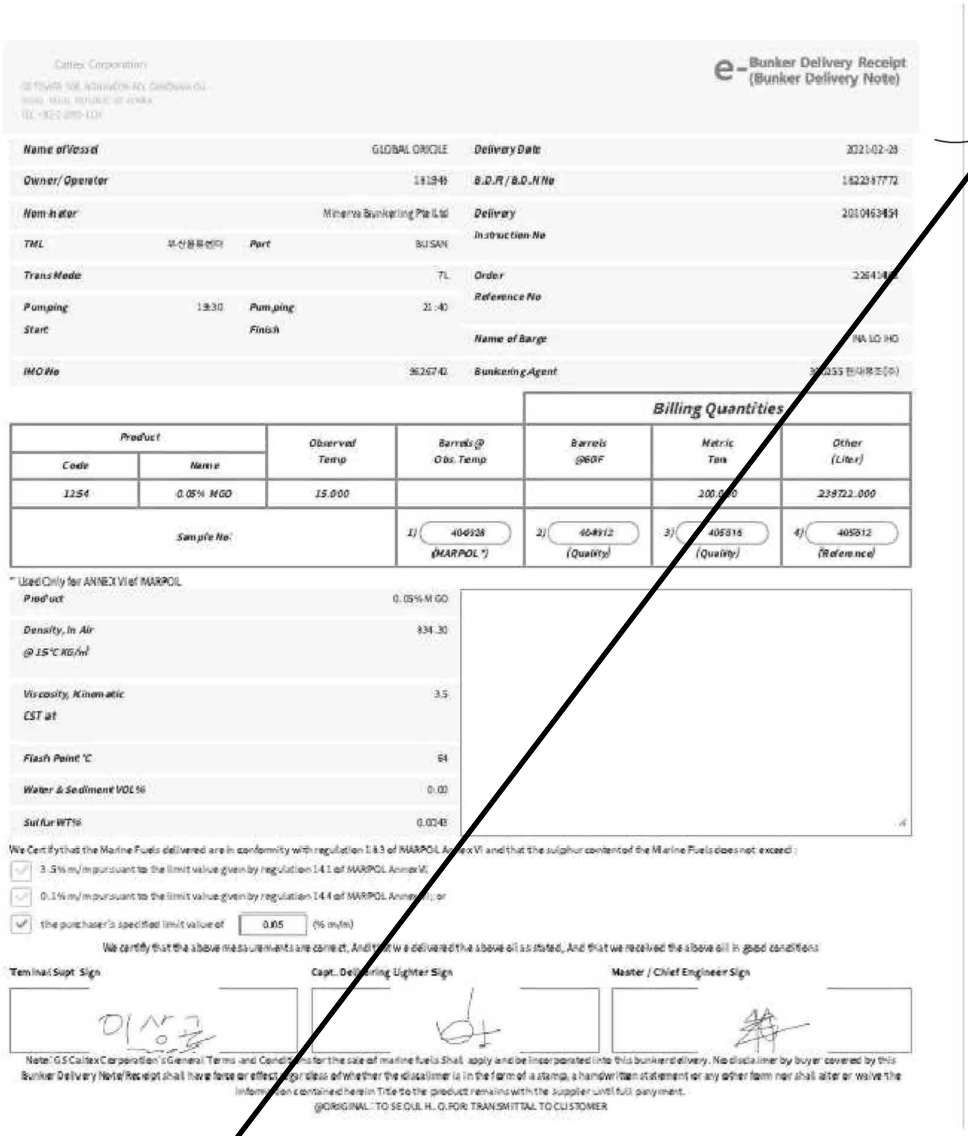

570
2:09
< Details
App
Oil company manager signature
571
Fuel-feeding vessel manager signature
572
Fuel-receiving vessel manager signature
573

FIG. 6



e-Bunker Delivery Receipt (Bunker Delivery Note)

610

Name of Vessel	GLOBAL ORICLE	Delivery Date	2021-02-28
Owner/ Operator	181848	B.D.R / B.D.N No	1822387772
Nom Inter	Minerva Bunkering Pte Ltd	Delivery Instruction No	2010463491
TML	Port	BUSAN	
Trans Mode	TL	Order Reference No	2264340
Pumping Start	19:30	Pumping Finish	21:40
		Name of Barge	
IMO No	9626740	Bunkering Agent	

Product Code	Product Name	Observed Temp	Barrels @ Obs. Temp	Billing Quantities: Barrels @60F	Billing Quantities: Metric Ton	Billing Quantities: Other (Liter)
1254	0.05% MGO	15.000			200.000	239722.000
Sample No:			1) 404928 (MARPOL *)	2) 404912 (Quality)	3) 405316 (Quality)	4) 405312 (Reference)

* Used Only for ANNEX VI of MARPOL

Product	0.05% M GO
Density, In Air @ 15°C KG/㎥	834.30
Viscosity, Kinematic CST at	3.5
Flash Point °C	64
Water & Sediment VOL%	0.00
Sulfur WT%	0.0248

We Certify that the Marine Fuels delivered are in conformity with regulation 18.3 of MARPOL Annex VI and that the sulphur content of the Marine Fuels does not exceed :

- [ ] 3.5% m/m pursuant to the limit value given by regulation 14.1 of MARPOL Annex VI;
- [ ] 0.1% m/m pursuant to the limit value given by regulation 14.4 of MARPOL Annex VI ; or
- [x] the purchaser's specified limit value of 0.05 (% m/m)

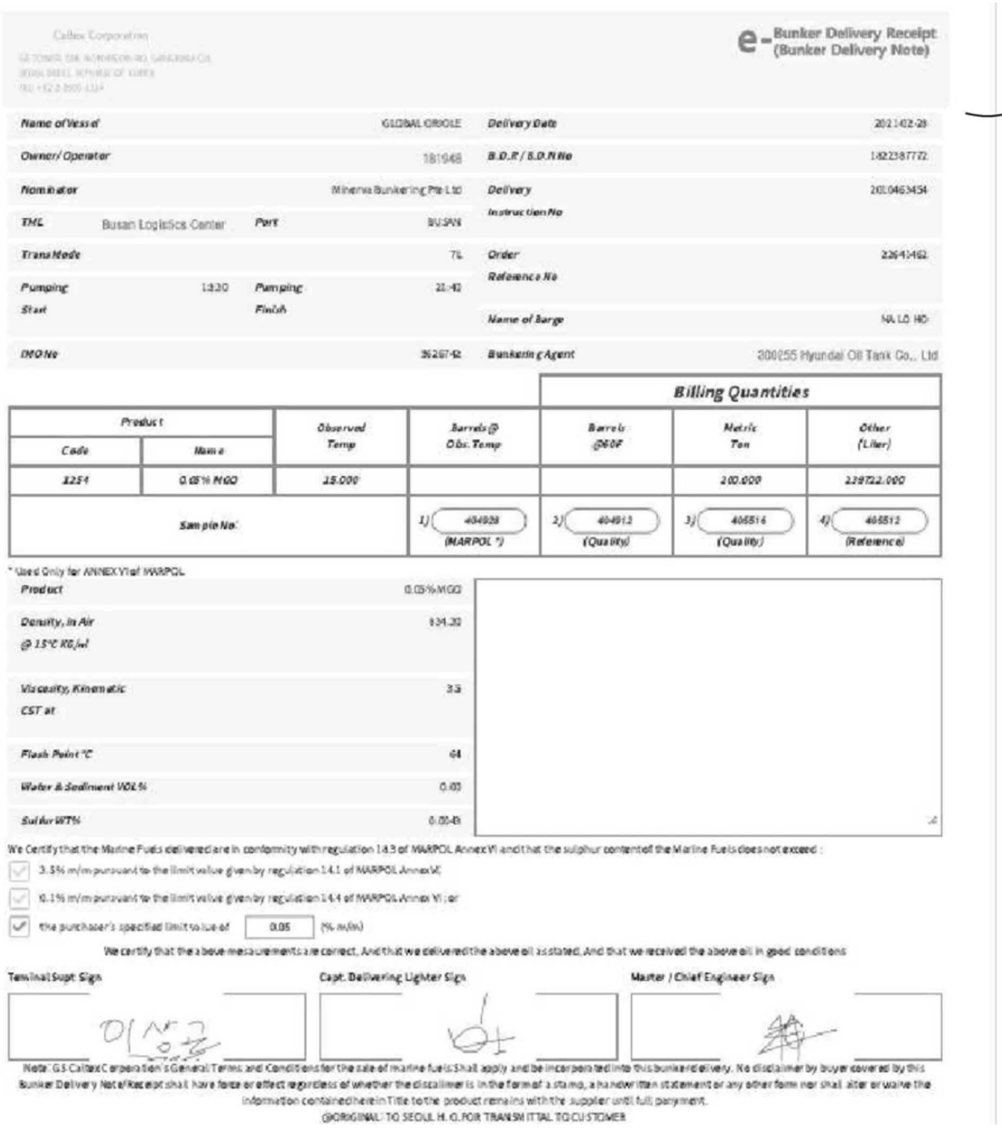
We certify that the above measurements are correct, And that we delivered the above oil as stated, And that we received the above oil in good condition

Terminal Supt Sign	Capt. Delivering Lighter Sign	Master / Chief Engineer Sign

Note: GS Caltex Corporation's General Terms and Conditions for the sale of marine fuels Shall apply and be incorporated into this bunkering delivery. No disclaimer by buyer covered by this Bunker Delivery Note/Receipt shall have force or effect, regardless of whether the disclaimer is in the form of a stamp, a handwritten statement or any other form nor shall alter or waive the information contained herein Title to the product remains with the supplier until full payment.

@ORIGINAL : TO SEOUL H. O. FOR TRANSMITTAL TO CUSTOMER

FIG. 6



Caltex Corporation

e-Bunker Delivery Receipt (Bunker Delivery Note)

610

Name of Vessel	GLOBAL ORIOLE	Delivery Date	2021-02-28
Owner / Operator	181948	B.D.R / S.D.N No	1422387772
Nominator	Minerva Bunkering Pte Ltd	Delivery Instruction No	2010463454
TML Busan Logistics Center	Port BUSAN		
Trans Mode	TK	Order Reference No	22641462
Pumping Start 13:20	Pumping Finish 21:42	Name of Barge	NA LO HO
IMO No	9226742	Bunkering Agent	200055 Hyundai Oil Tank Co., Ltd

Product Code	Product Name	Observed Temp	Barrels @ Obs. Temp	Billing Quantities: Barrels @60F	Metric Ton	Other (Liter)
3251	0.05% MGO	15.000			200.000	229722.000
Sample No:			1) 404928 (MARPOL *)	2) 404913 (Quality)	3) 406514 (Quality)	4) 406512 (Reference)

* Used Only for ANNEX VI of MARPOL

Product	0.05% MGO
Density, In Air @ 15°C Kg/ℓ	834.20
Viscosity, Kinematic CST at	3.5
Flash Point °C	64
Water & Sediment VOL%	0.00
Sulfur WT%	0.0049

We Certify that the Marine Fuels delivered are in conformity with regulation 14.3 of MARPOL Annex VI and that the sulphur content of the Marine Fuels does not exceed :

- [ ] 3.5% m/m pursuant to the limit value given by regulation 14.1 of MARPOL Annex VI;
- [ ] 0.1% m/m pursuant to the limit value given by regulation 14.4 of MARPOL Annex VI ; or
- [x] the purchaser's specified limit value of 0.05 (% m/m)

We certify that the above measurements are correct, And that we delivered the above oil as stated. And that we received the above oil in good conditions

Terminal Supt. Sign	Capt. Delivering Lighter Sign	Master / Chief Engineer Sign

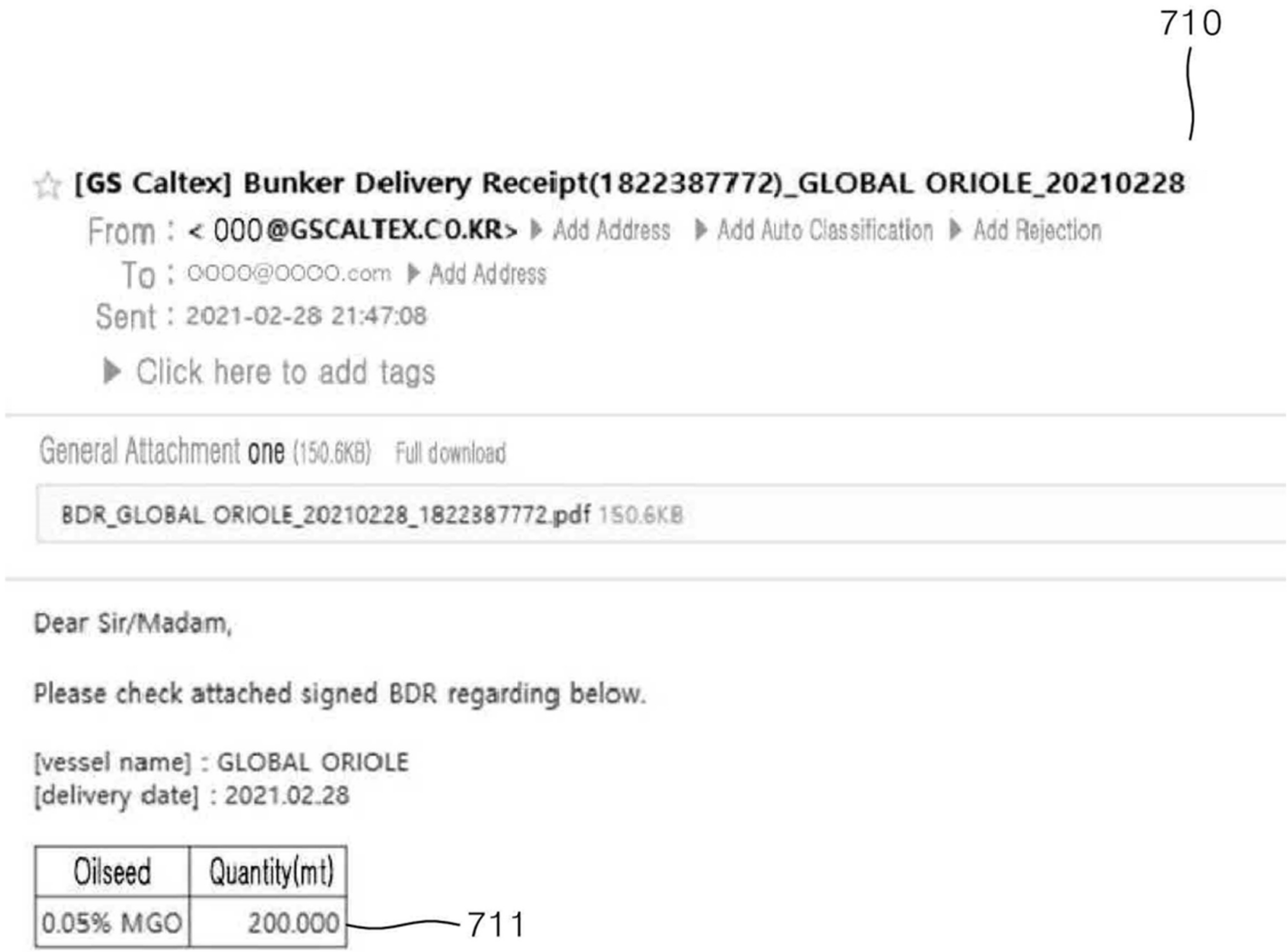
Note: GS Caltex Corporation's General Terms and Conditions for the sale of marine fuels shall apply and be incorporated into this bunker delivery. No disclaimer by buyer covered by this Bunker Delivery Note/Receipt shall have force or effect regardless of whether the disclaimer is in the form of a stamp, a handwritten statement or any other form nor shall alter or waive the information contained herein. Title to the product remains with the supplier until full payment.

@ORIGINAL : TO SEOUL H. O. FOR TRANSMITTAL TO CUSTOMER

FIG. 7

710
[GS Caltex] Bunker Delivery Receipt(1822387772)_GLOBAL ORIOLE_20210228
보낸사람: < 000@GSCALTEX.CO.KR> 주소추가 자동분류 추가 수신거부
받는사람: 0000@0000.com 주소추가
보낸날짜: 2021-02-28 21:47:08
태그를 추가하려면 여기를 클릭하세요.
일반 첨부 1개 (150.6KB) 전체다운로드
BDR_GLOBAL ORIOLE_20210228_1822387772.pdf 150.6KB
Dear Sir/Madam,
Please check attached signed BDR regarding below.
[vessel name] : GLOBAL ORIOLE
[delivery date] : 2021.02.28
유종
수량(mt)
0.05% MGO
200.000
711
[BDR No] : 1822387772

FIG. 7


710
[GS Caltex] Bunker Delivery Receipt(1822387772)_GLOBAL ORIOLE_20210228
From : < 000@GSCALTEX.CO.KR> ▶ Add Address ▶ Add Auto Classification ▶ Add Rejection
To : OOOO@OOOO.com ▶ Add Address
Sent : 2021-02-28 21:47:08
▶ Click here to add tags
General Attachment one (150.6KB) Full download
BDR_GLOBAL ORIOLE_20210228_1822387772.pdf 150.6KB
Dear Sir/Madam,
Please check attached signed BDR regarding below.
[vessel name] : GLOBAL ORIOLE
[delivery date] : 2021.02.28
Oilseed
Quantity(mt)
0.05% MGO
200.000
711
[BDR No] : 1822387772