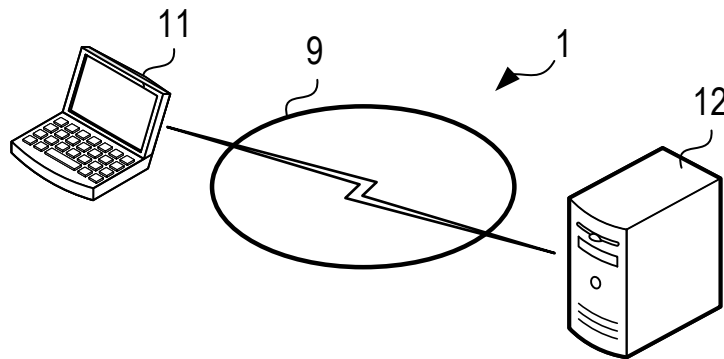
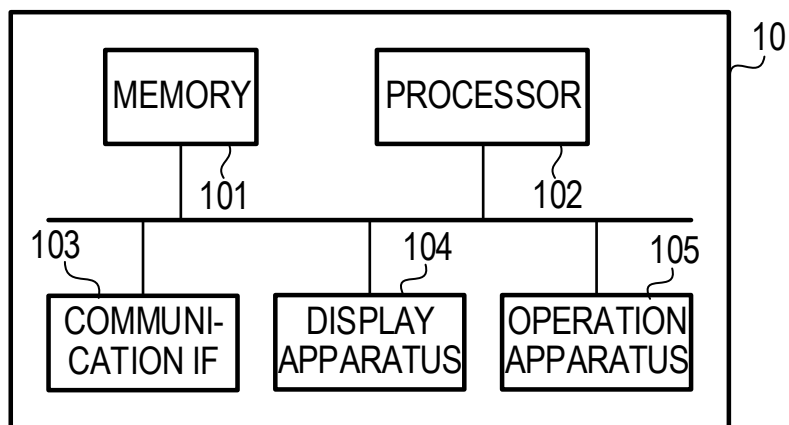


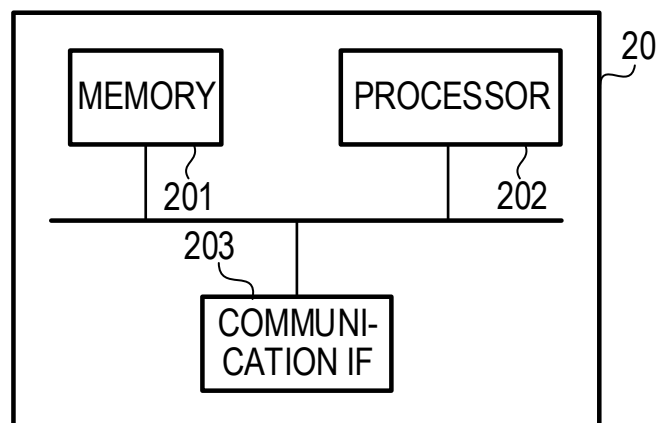
[FIG. 1]



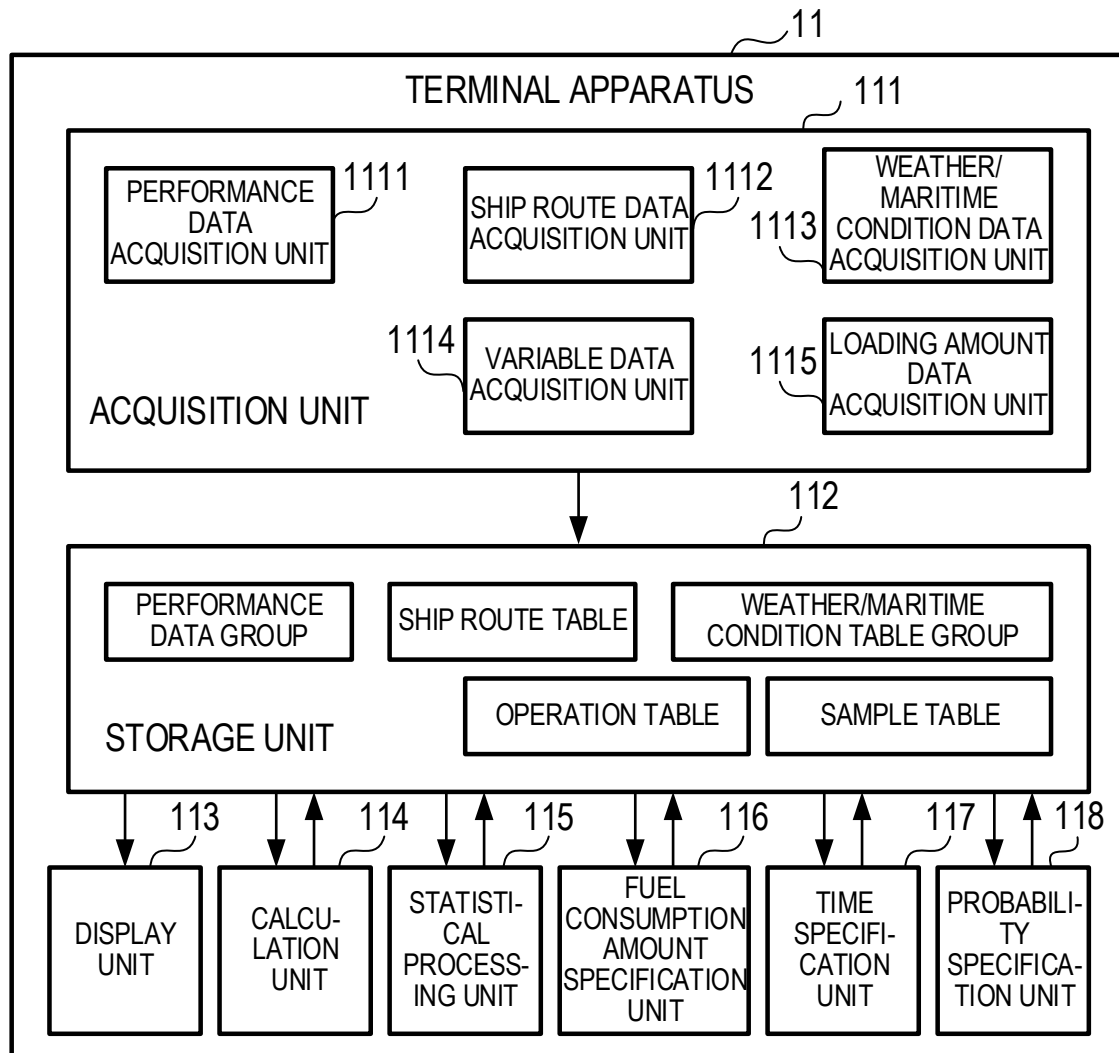
[FIG. 2]



[FIG. 3]



[FIG. 4]



[FIG. 5]

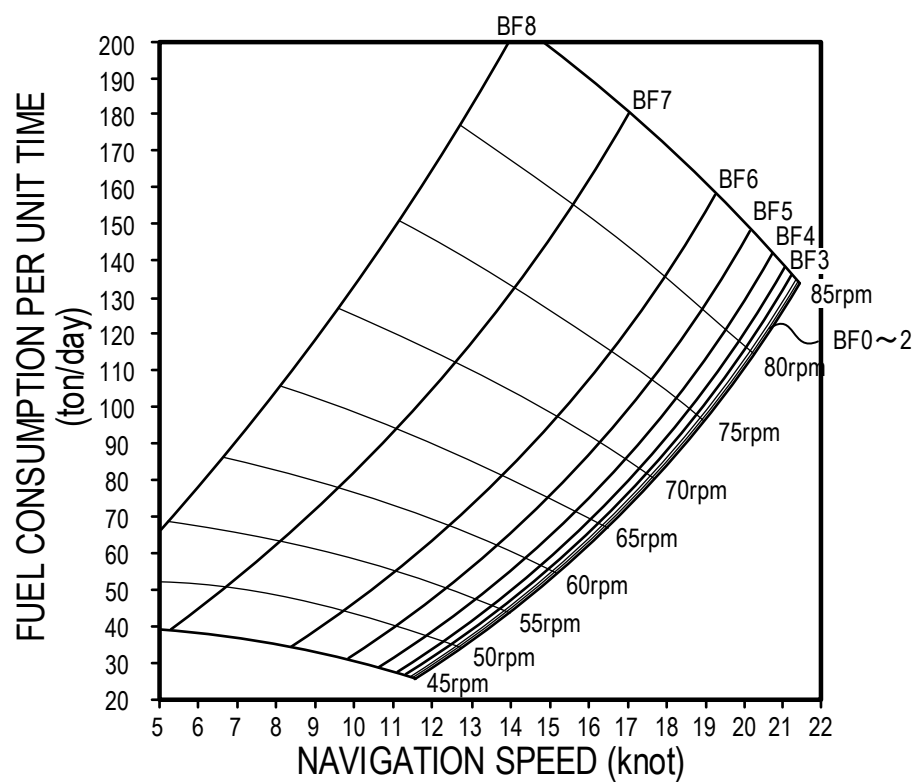
SHIP NAME: NYK001

LOADING AMOUNT: (%)

WIND DIRECTION: NW, WIND SPEED: 0(m/sec),
WAVE PERIOD: 0(sec), . . .

NAVIGATION SPEED (knot)	FUEL CONSUMPTION PER UNIT TIME (ton/day)
12.0	56.3
13.0	58.6
. . .	. . .
. . .	. . .
. . .	. . .

[FIG. 6]



[FIG. 7]

SHIP ROUTE NAME	PORT NAME	BERTHING PERIOD (h)	SEA AREA NAME	DISTANCE (mile)
TYO-SYD	TYO	—	SA001	213
			SA003	176
			• • •	• • •
	HKG	15.0	• • •	• • •
	JKT	10.0	• • •	• • •
	FRE	10.0	• • •	• • •
	SYD	—	—	—
• • • • • • • • •	• • • • • • • • •	• • • • • • • • •	• • • • • • • • •	• • • • • • • • •

[FIG. 8]

SEA AREA NAME: SA001							
TIME PERIOD	WIND SPEED (m/sec)	WIND DIRECTION	WAVE HEIGHT (m)	WAVE DIRECTION	WAVE PERIOD (sec)	CURRENT SPEED (m/sec)	CURRENT DIRECTION
2005/2/1 0:00-0:30	0.81	N	0.12	N	3.6	0.45	NNW
.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.

[FIG. 9]

SHIP NAME

NYK001

▽

☒ CONSTANT NAVIGATION SPEED MODE

15.5

knot

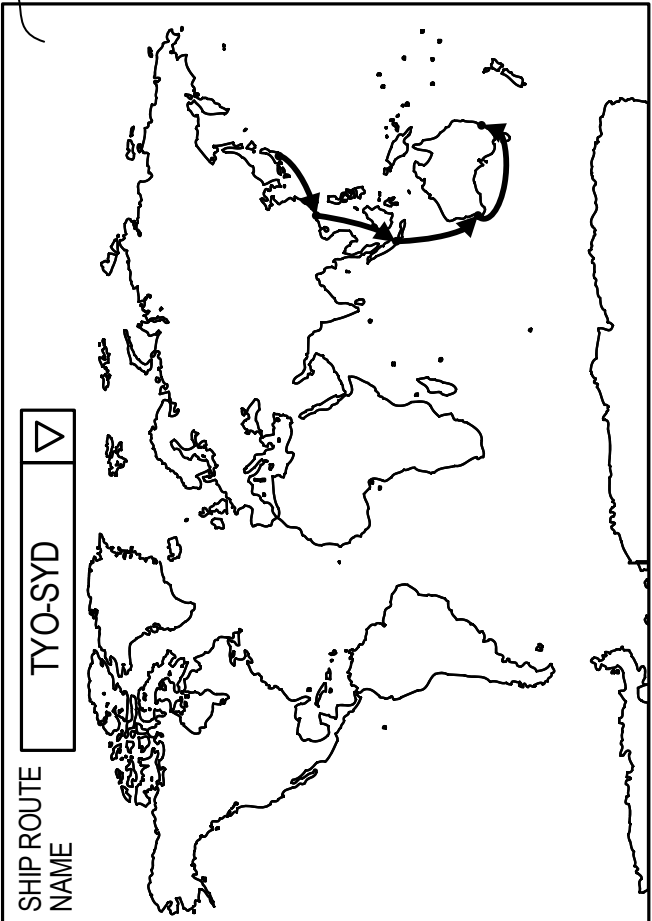
☐ CONSTANT FUEL CONSUMPTION AMOUNT MODE

ton/day

SHIP ROUTE NAME

TYO-SYD

▽



YEAR

ALL

2005

2006

2007

2008

2009

2010

2011

2012

2013

2014

2015

2016

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MONTH

ALL

JAN

FEB

MAR

APR

MAY

JUN

JUL

AUG

SEP

OCT

NOV

DEC

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LOADING AMOUNT

TYO-HKG	50 %
HKG-JKT	50 %
JKT-FRE	50 %
FRE-SYD	50 %

DEPARTURE PORT

TYO

▽

DEPARTURE TIME

2016/9/15 12:00

DESTINATION PORT

TYO

▽

ARRIVAL TIME

2016/10/10 15:15

OK

CANCEL

5/15

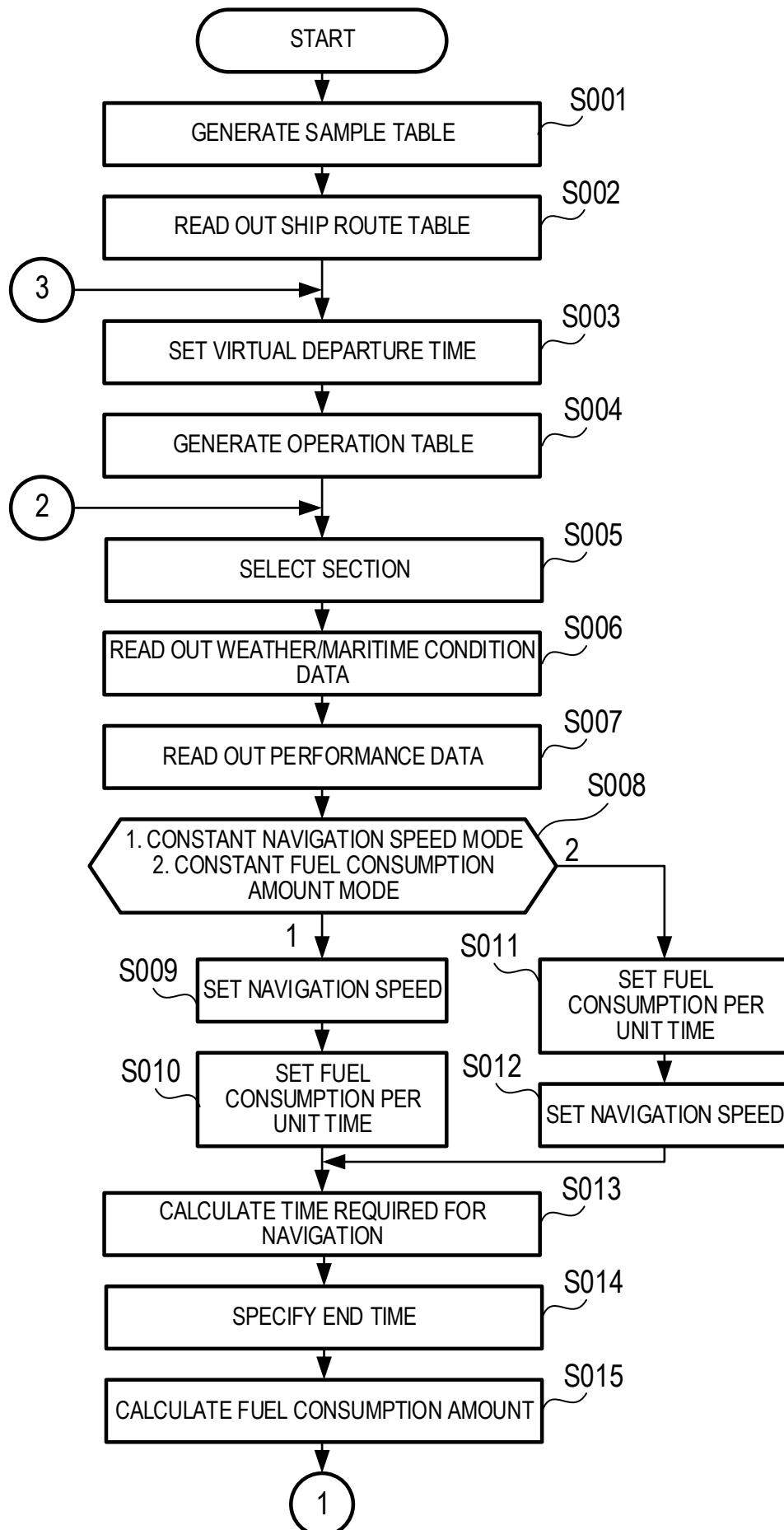
[FIG. 10]

PORT-TO-PORT ROUTE	SEA AREA NAME	SEC- TION NUM- BER	DISTAN- -CE (mile)	START TIME	NAVIGATION SPEED (knot)	FUEL CONSUMPTION PER UNIT TIME (ton/day)	END TIME	FUEL CONSUMP- TION AMOUNT (ton)
TYO-HKG	SA001	1	10	2005/2/1 12:00	15.5	68.3	2005/2/1 12:21	0.949
		• • • • • • • • •	• • • • • • • • •	• • • • • • • • •	• • • • • • • • •	• • • • • • • • •	• • • • • • • • •	• • • • • • • • •
	• • • • • • • • •	• • • • • • • • •	• • • • • • • • •	• • • • • • • • •	• • • • • • • • •	• • • • • • • • •	• • • • • • • • •	• • • • • • • • •
	• • • • • • • • •	• • • • • • • • •	• • • • • • • • •	• • • • • • • • •	• • • • • • • • •	• • • • • • • • •	• • • • • • • • •	• • • • • • • • •

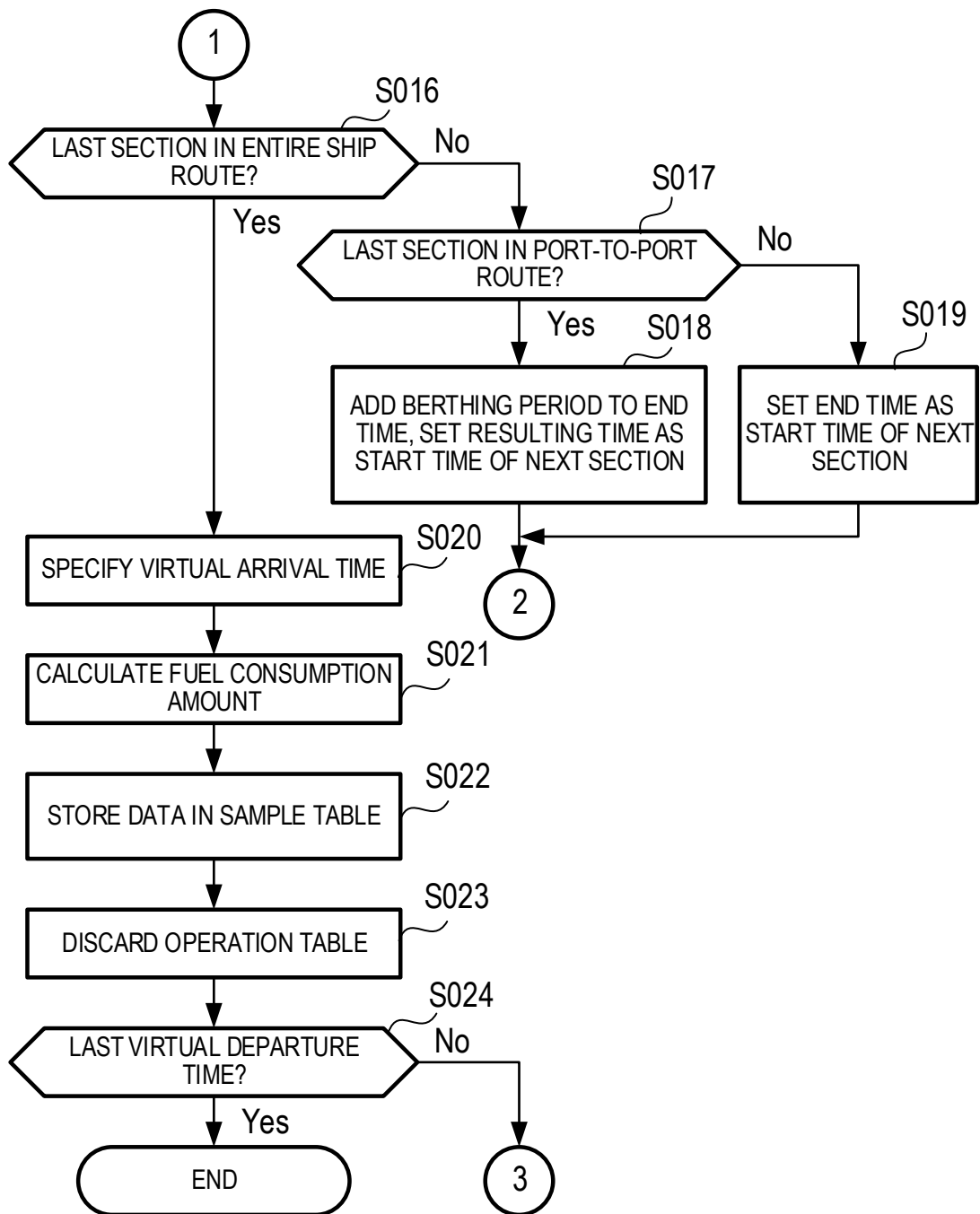
[FIG. 11]

VIRTUAL DEPARTURE TIME	VIRTUAL ARRIVAL TIME	FUEL CONSUMPTION AMOUNT (ton)
2005/2/1 12:00	2005/2/21 16:45	1432.8
• • • • • • • • •	• • • • • • • • •	• • • • • • • • •

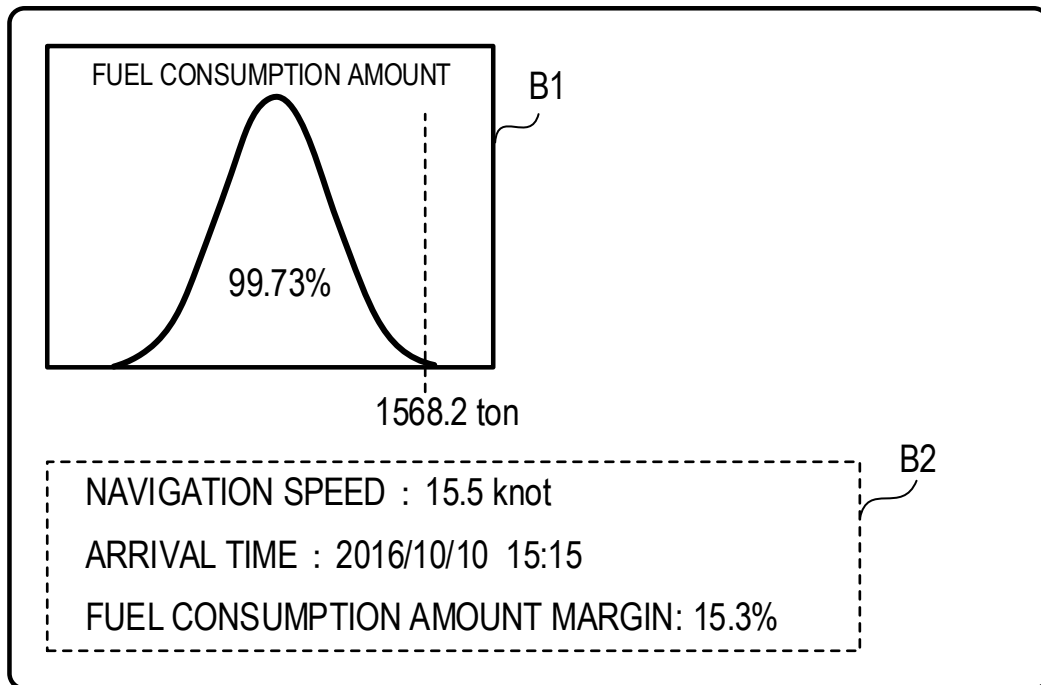
[FIG. 12A]



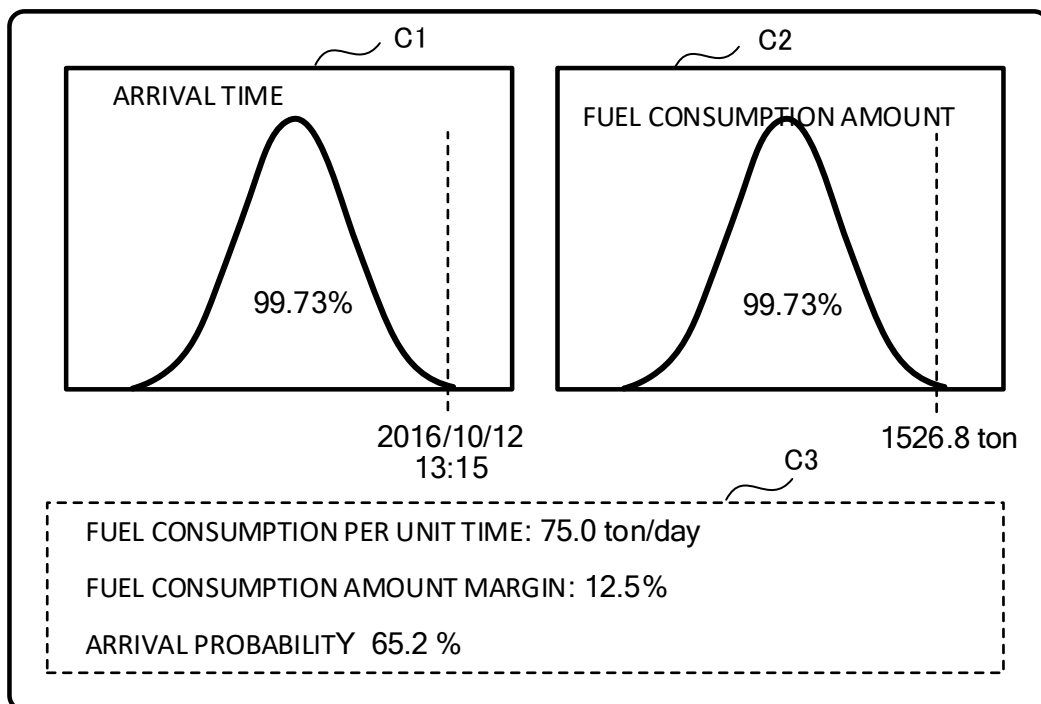
[FIG. 12B]



[FIG. 13]



[FIG. 14]



[FIG. 15]

The form contains the following fields and controls:

- D1 (Input Fields):**
 - SHIP NAME:
 - DEPARTURE PORT:
 - DEPARTURE TIME:
 - FUEL CONSUMPTION PER UNIT TIME: ton/day
 - LOADING AMOUNT: %
- D2 (Buttons):**
 -
 -
- D3 (Table):**

ARRIVAL TIME WITH 99.73% PROBABILITY

PUS	2016/9/17 18:00	Δ
SHA	2016/9/20 11:00	
. . .	. . .	
. . .	. . .	v

[FIG. 16]

FUEL CONSUMPTION PER UNIT TIME: 50 (ton/day)

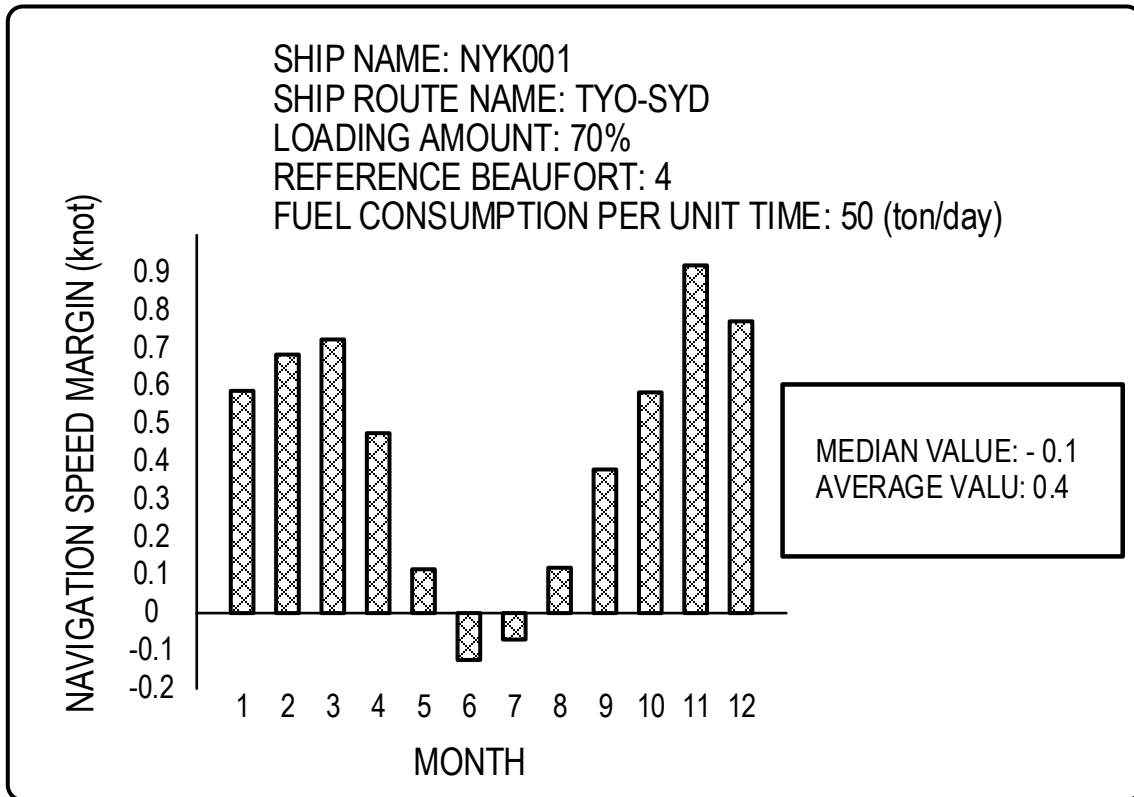
TIME PERIOD	SECTION START POINT	SECTION END POINT	NAVIGATION SPEED (knot)
2010/1/1 12:00-15:00	N. LAT 35° 0' 59" E. LONG 139° 30' 37"	N. LAT 34° 33' 22" E. LONG 139° 4' 15"	17.8
. . .	. . .	. . .	. . .

[FIG. 17]

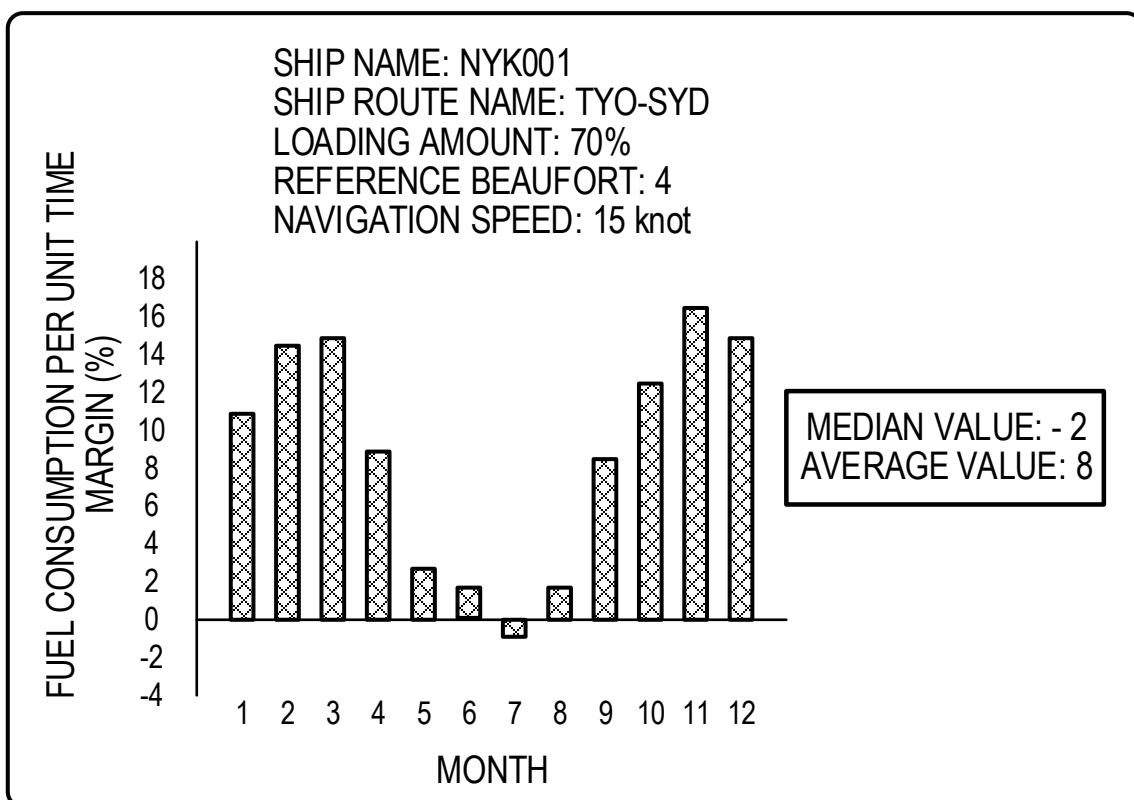
NAVIGATION SPEED: 15 (knot)

TIME PERIOD	SECTION START POINT	SECTION END POINT	FUEL CONSUMPTION PER UNIT TIME (ton/day)
2010/1/1 12:00-15:00	N. LAT 35° 0' 59" E. LONG 139° 30' 37"	N. LAT 34° 38' 15" E. LONG 139° 17' 26"	55.7
. . .	. . .	. . .	. . .

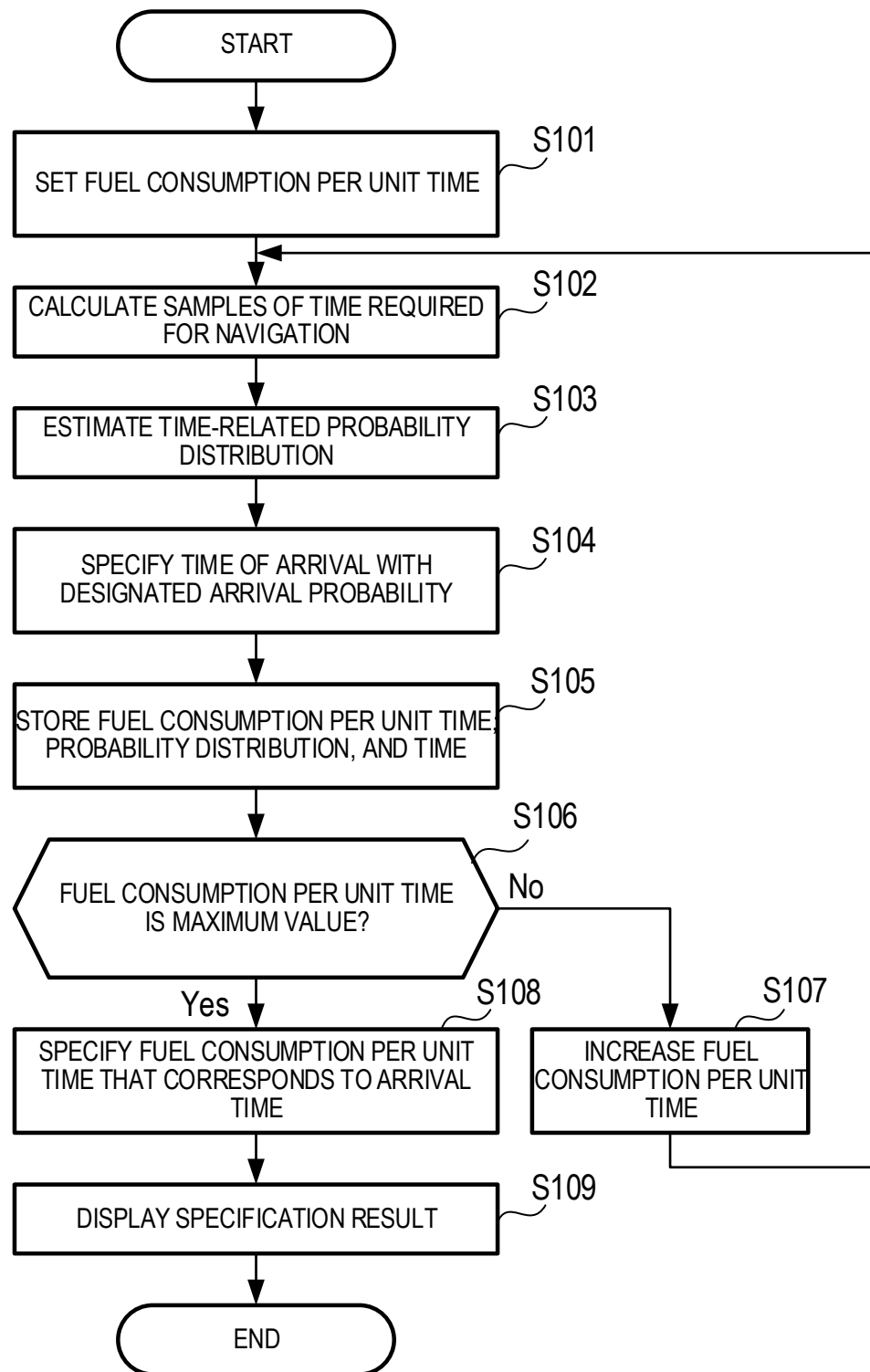
[FIG. 18]



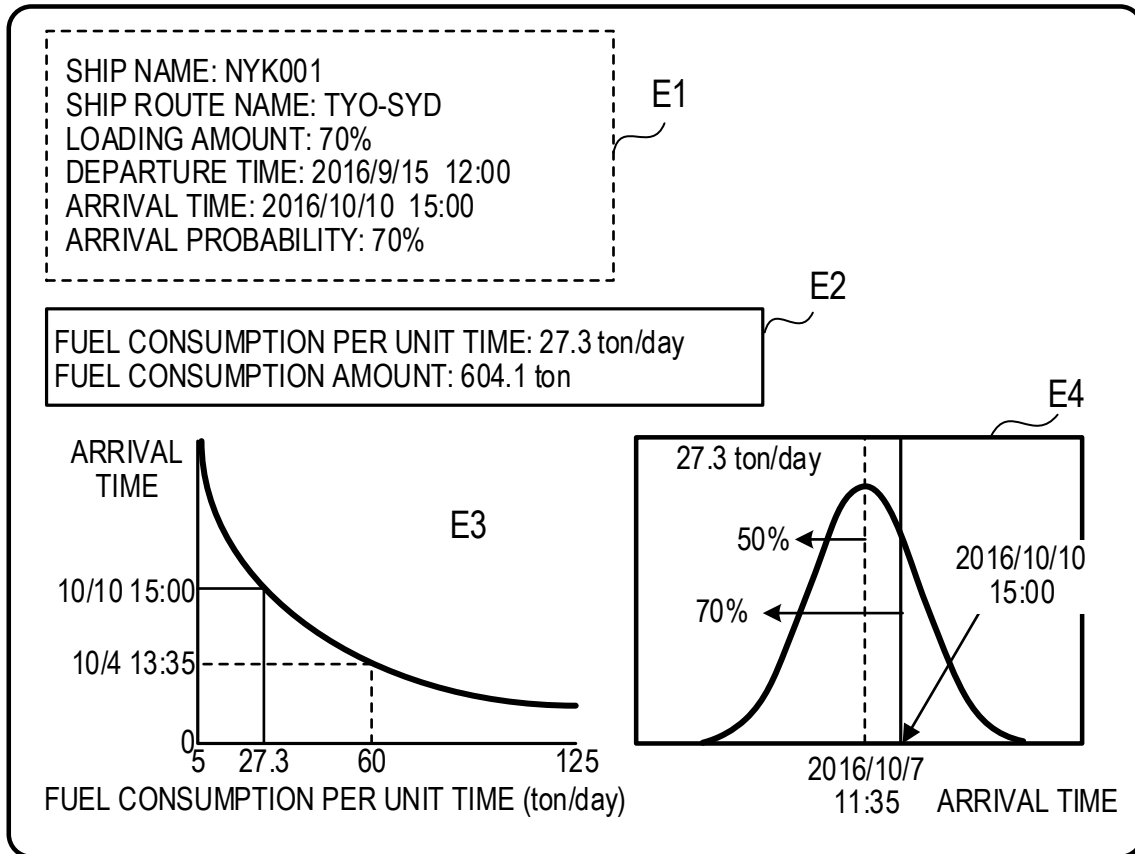
[FIG. 19]



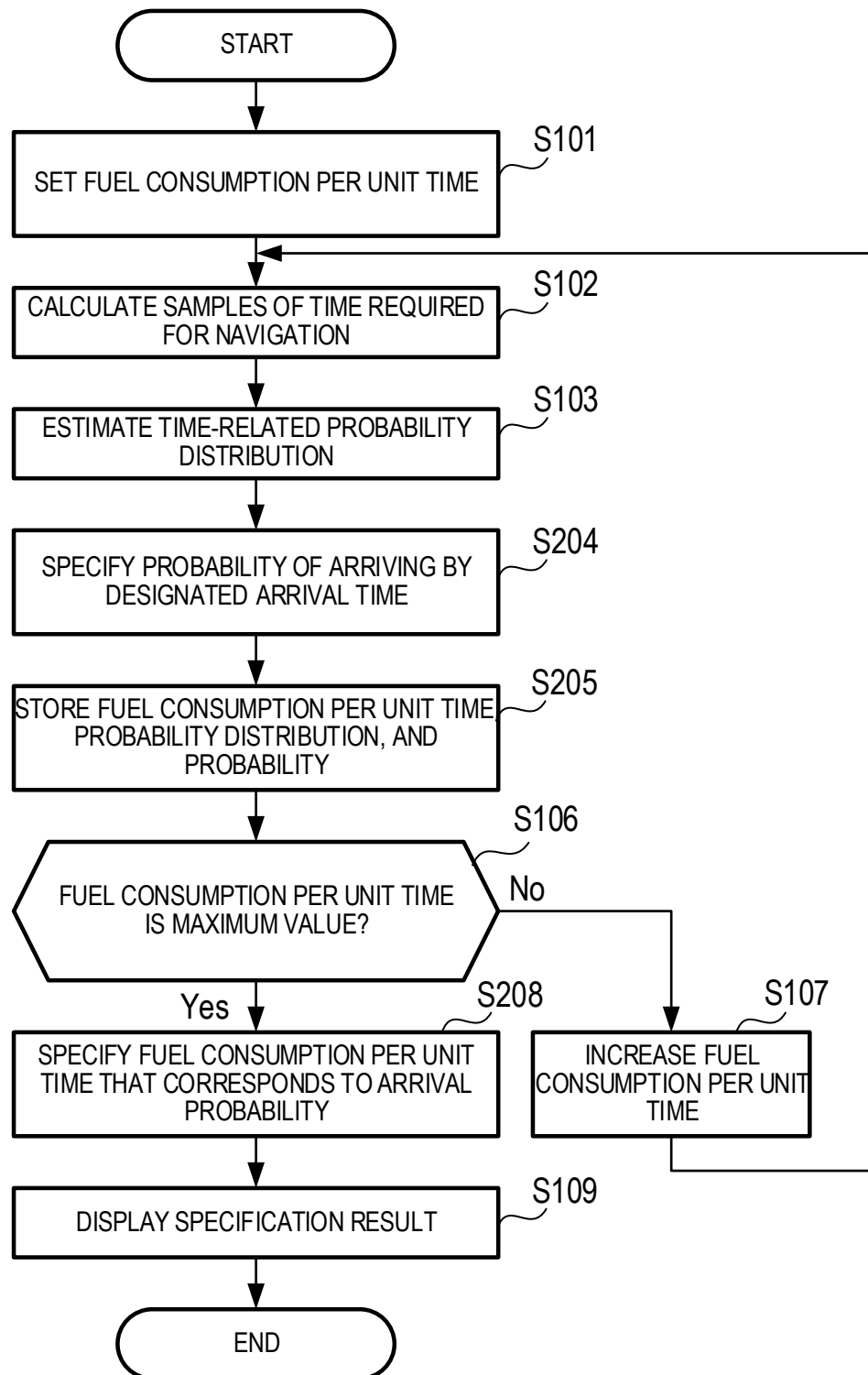
[FIG. 20]



[FIG. 21]



[FIG. 22]



[FIG. 23]

