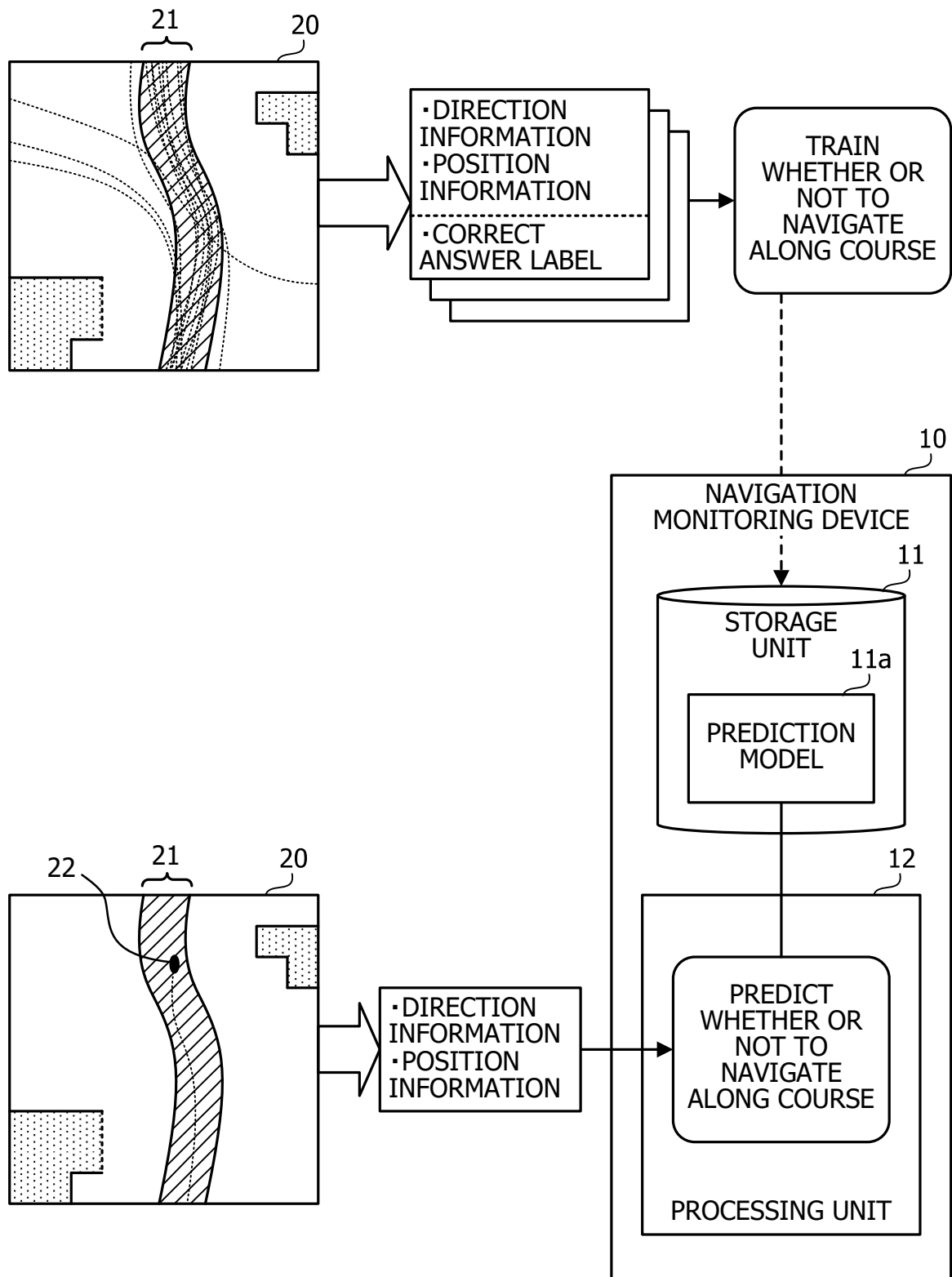
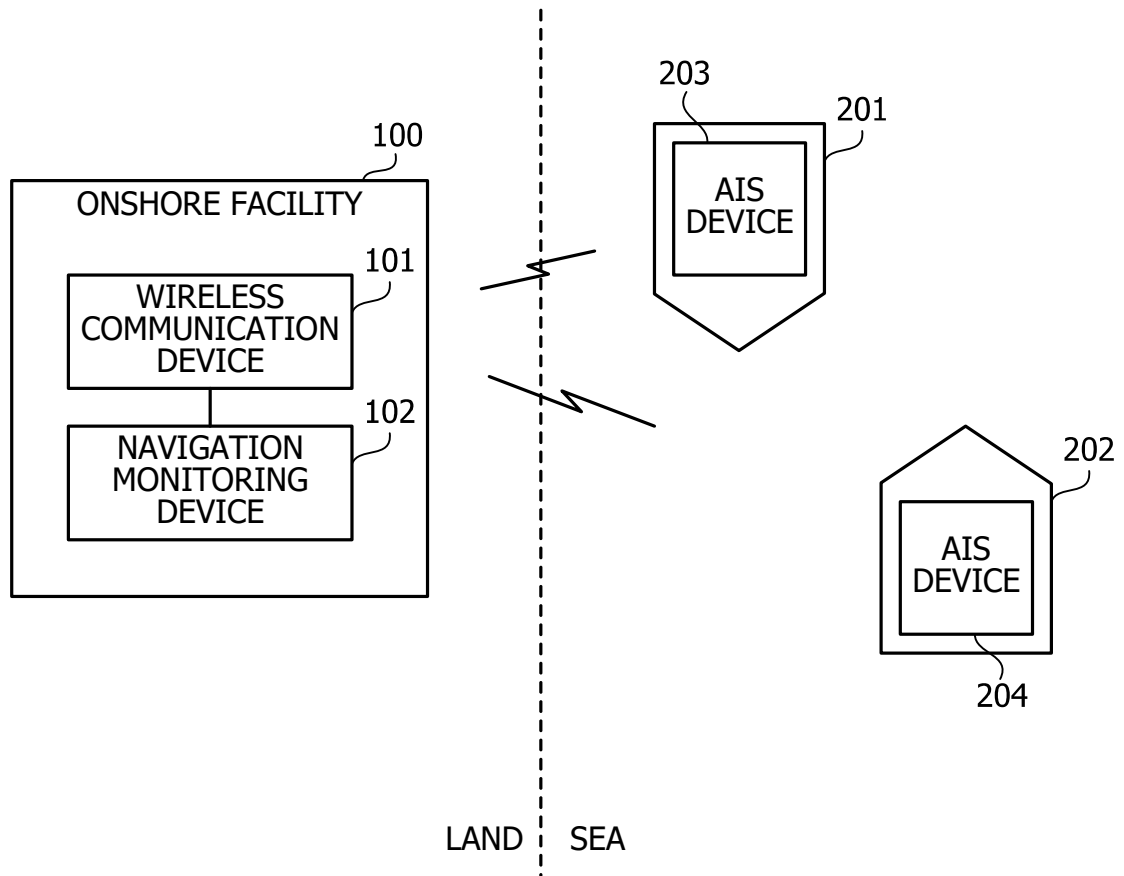


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FIG. 1



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FIG. 2



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FIG. 3

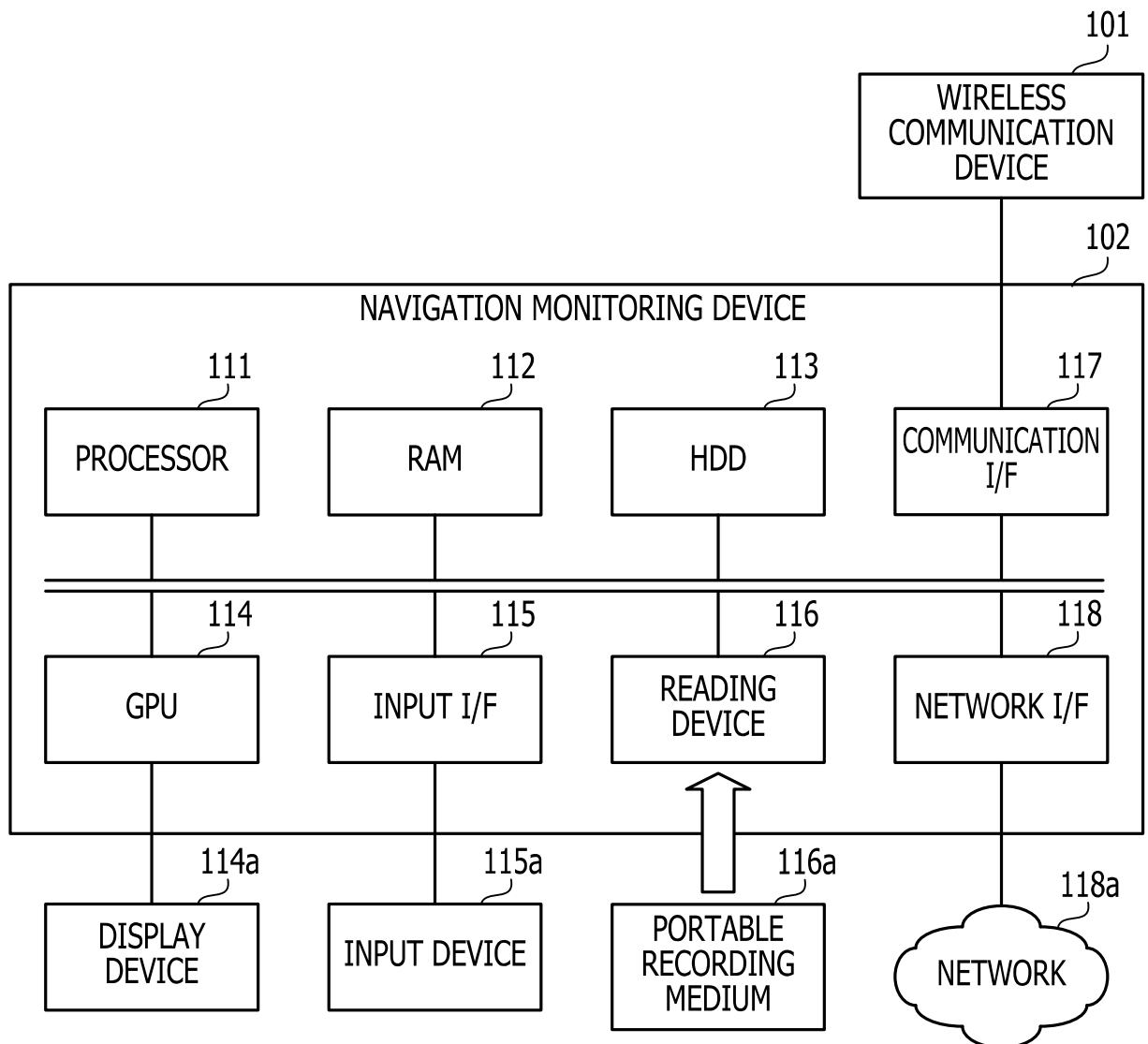
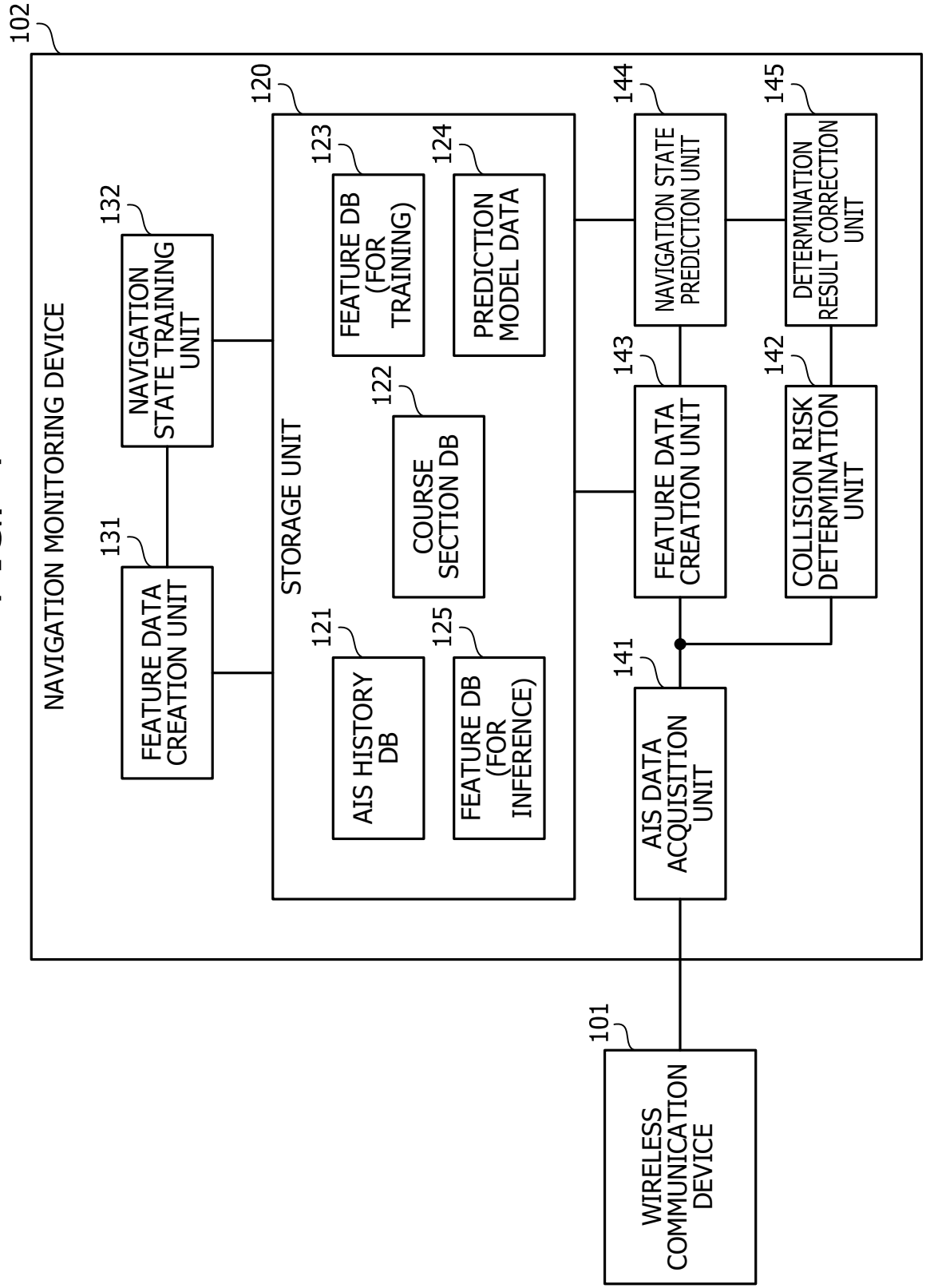
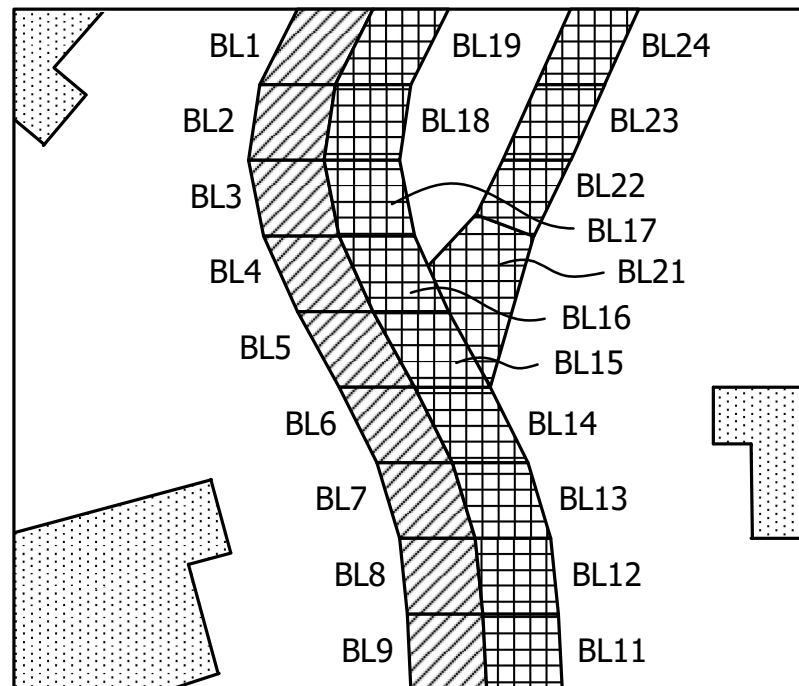
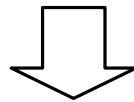
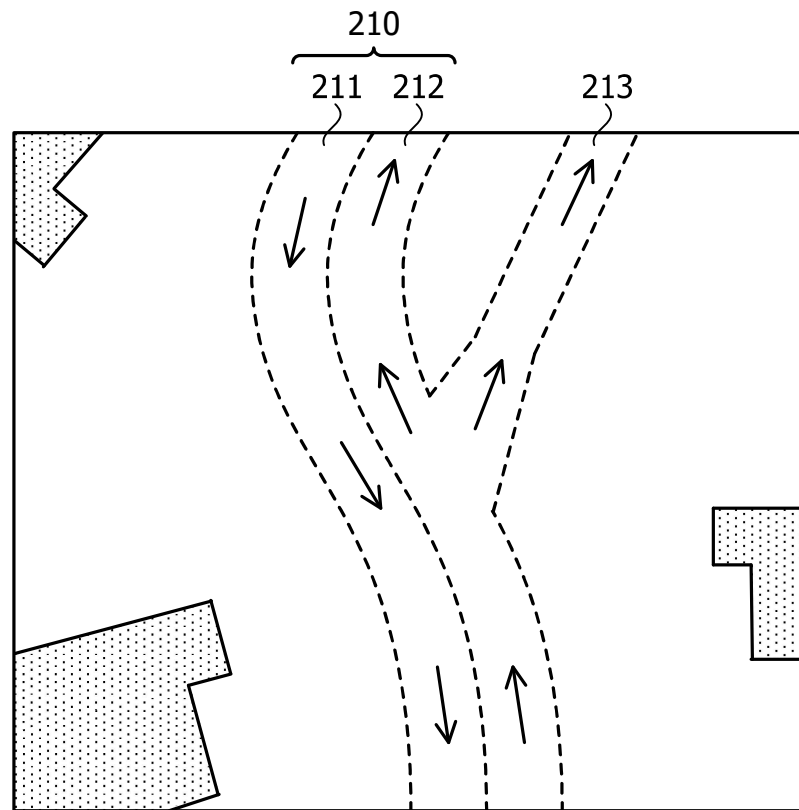


FIG. 4

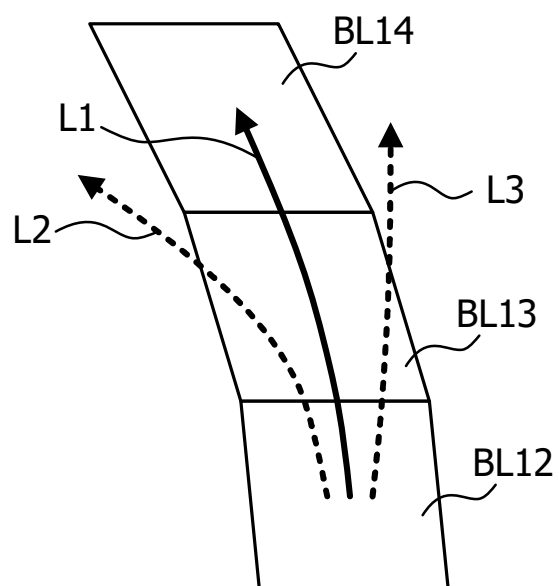


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FIG. 5

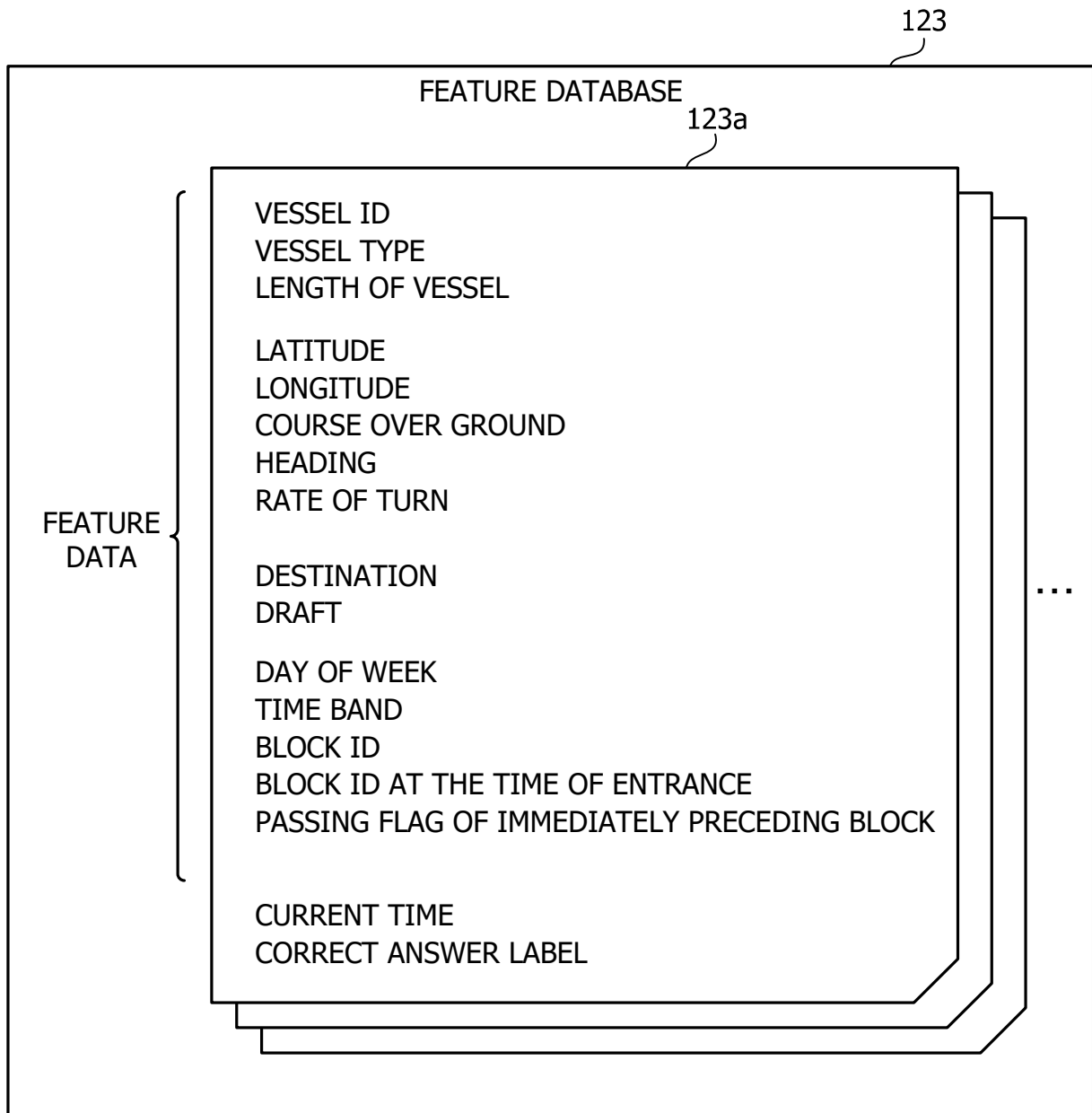


 : BLOCK (SOUTH DIRECTION)  : BLOCK (NORTH DIRECTION)

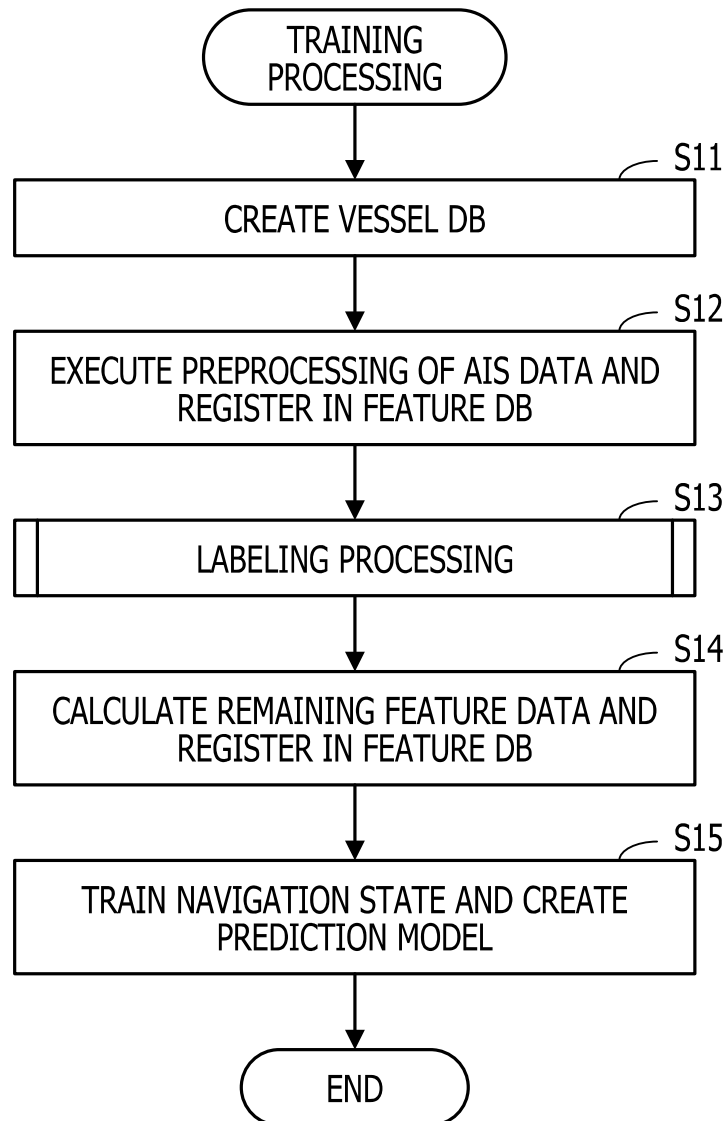
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FIG. 6



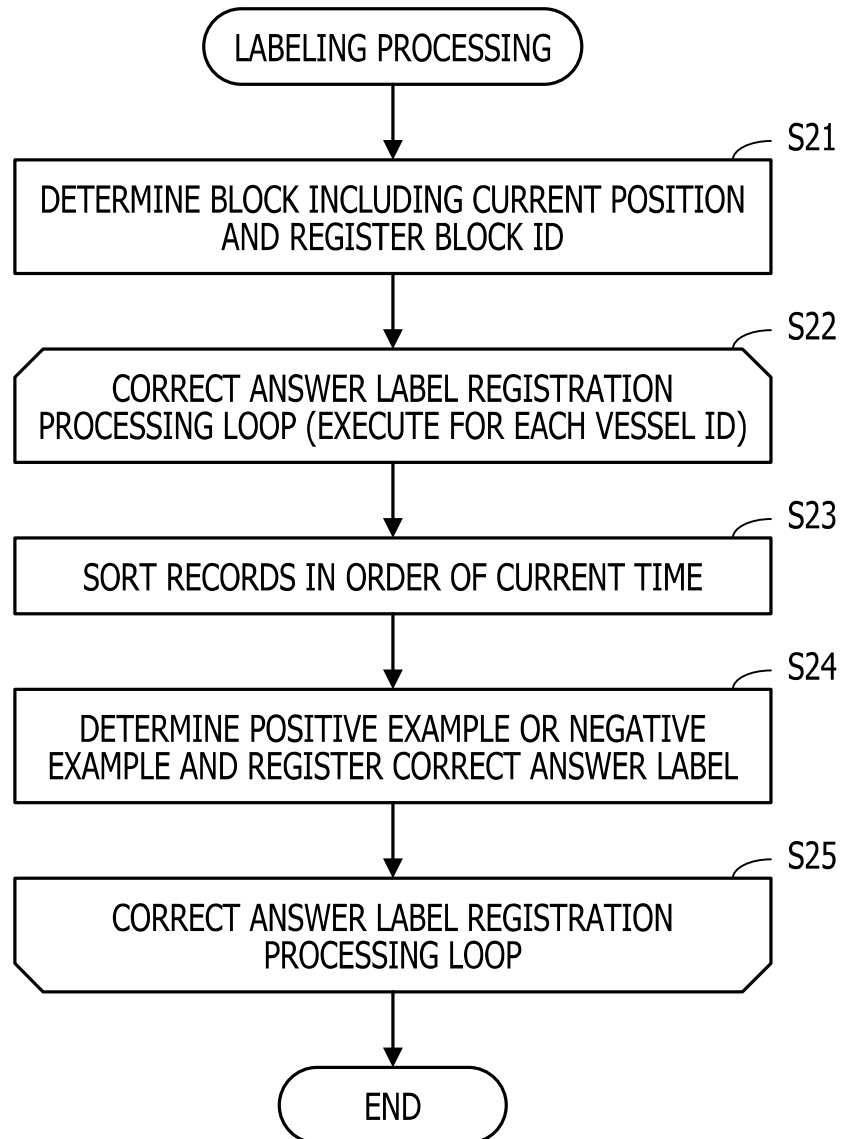
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FIG. 7



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FIG. 8



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FIG. 9

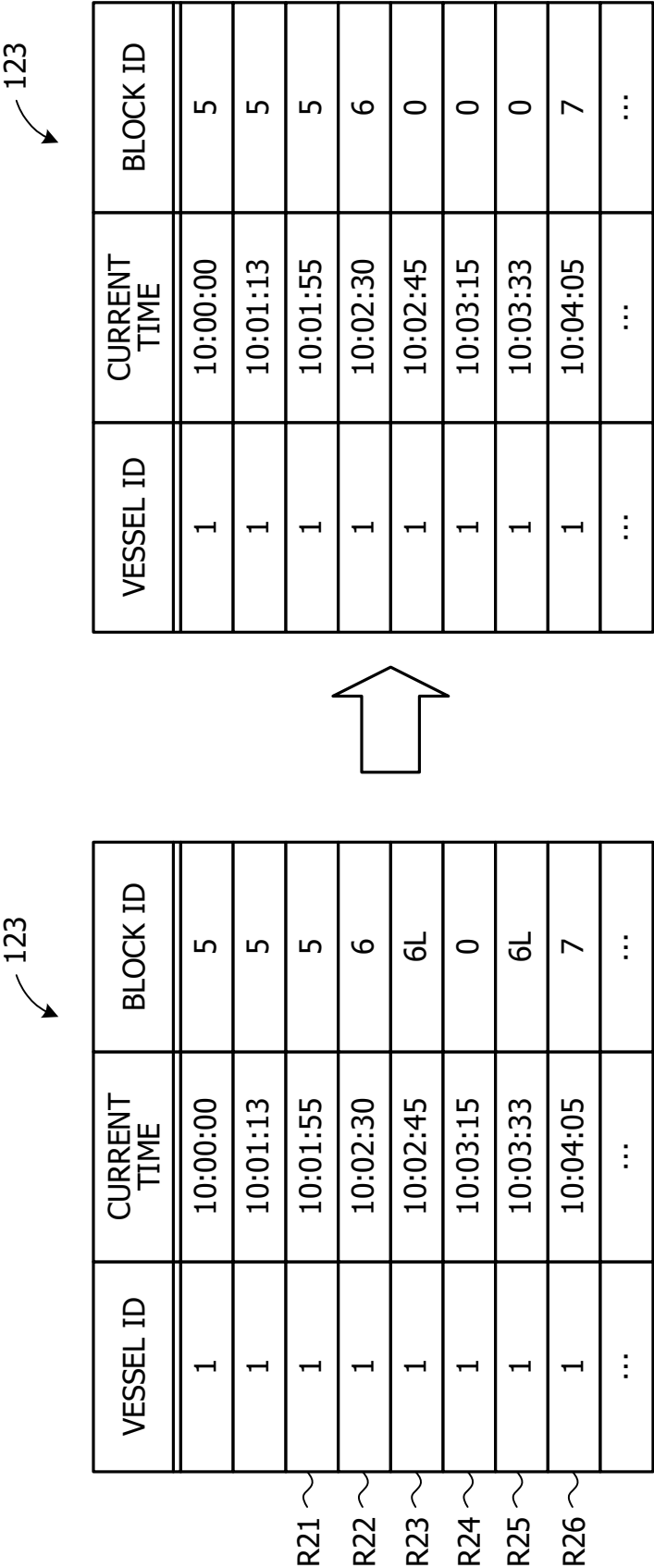


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FIG. 10

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↙

	VESSEL ID	CURRENT TIME	BLOCK ID	CORRECT ANSWER LABEL
R1 ~	1	10:00:00	5	1
	1	10:01:13	5	1
	1	10:01:55	5	1
R2 ~	1	10:02:30	6	0
	1	10:02:45	6	0
	1	10:03:15	6	0
R3 ~	1	10:03:33	7	0
R4 ~	1	10:04:05	49	-
	1	10:04:50	49	-
	1	10:05:25	49	-
R5 ~	1	10:05:55	8	...
	...	...	...	...

FIG. 12



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FIG. 13

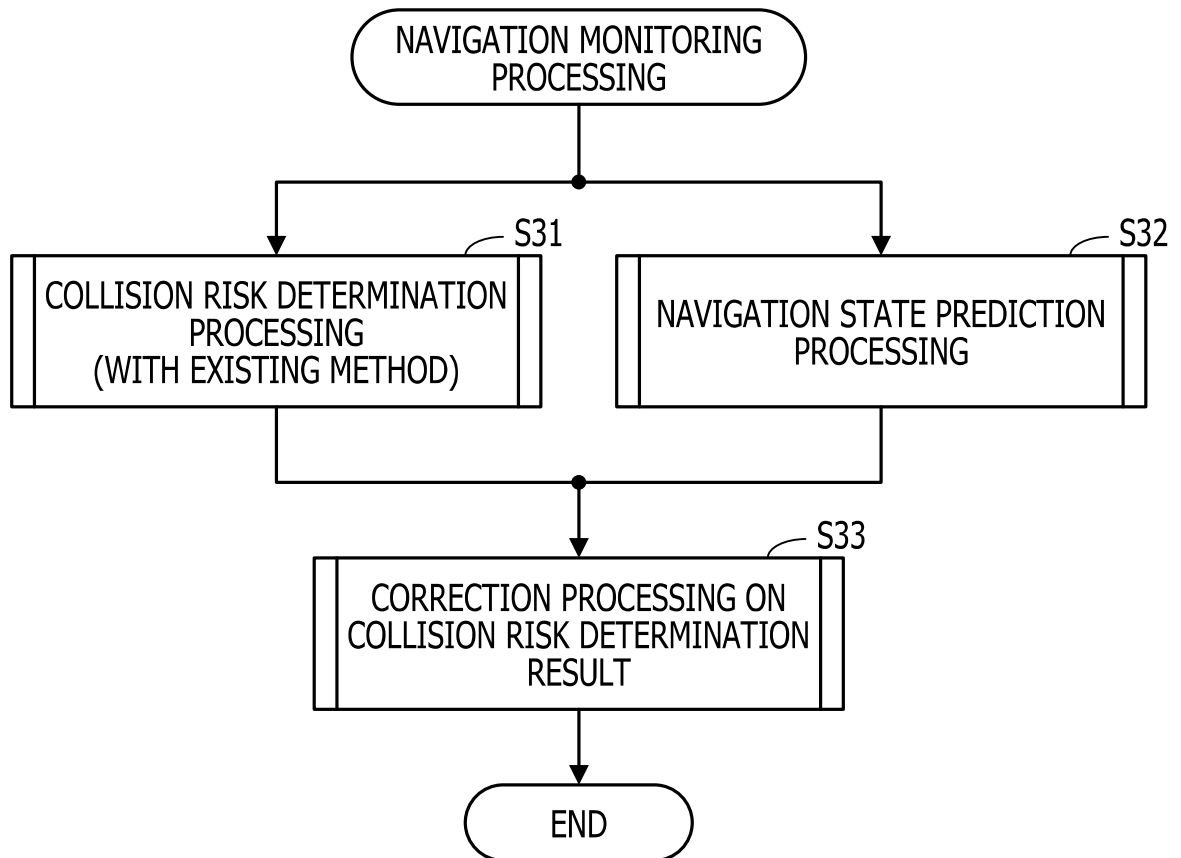


FIG. 14A

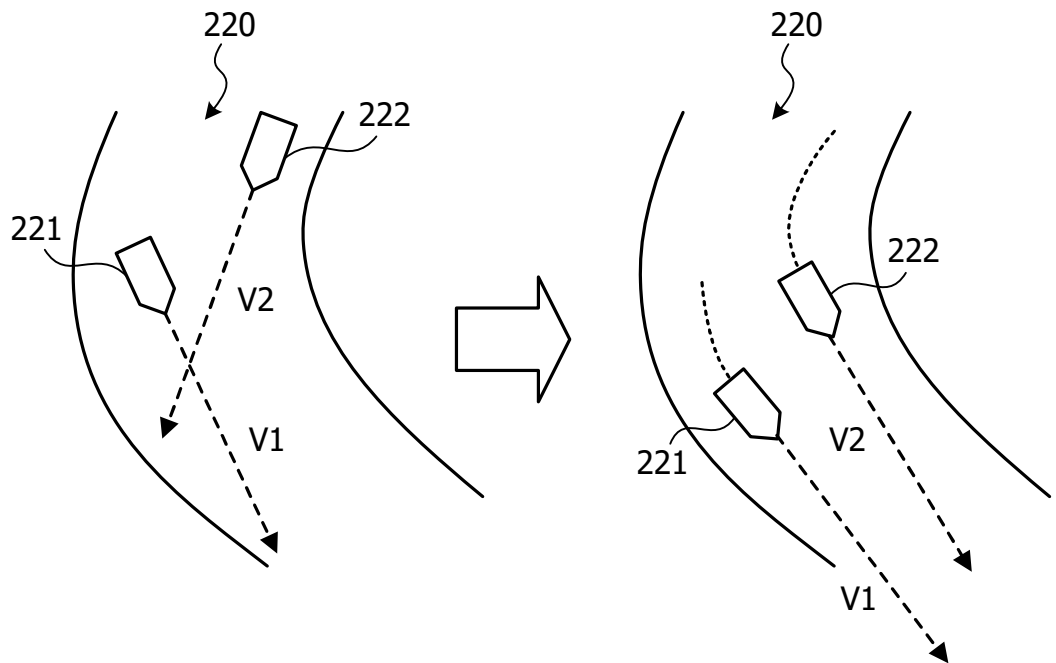
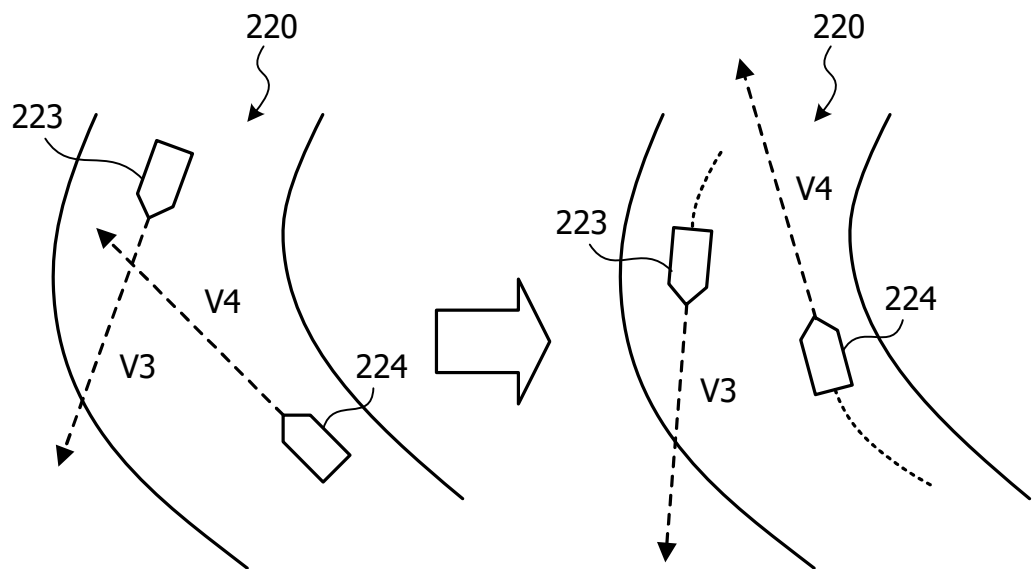
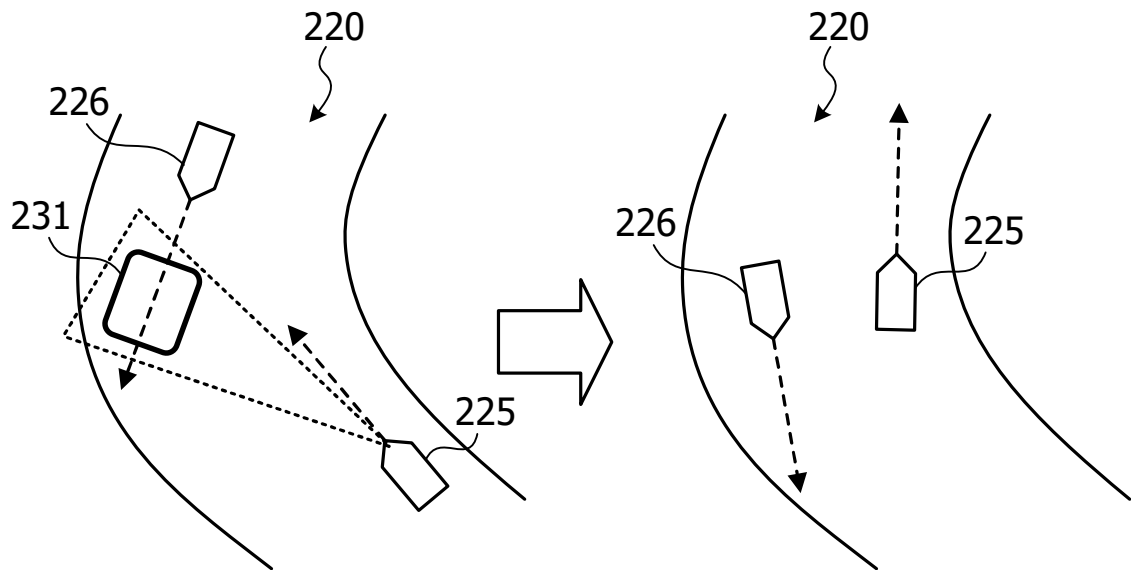


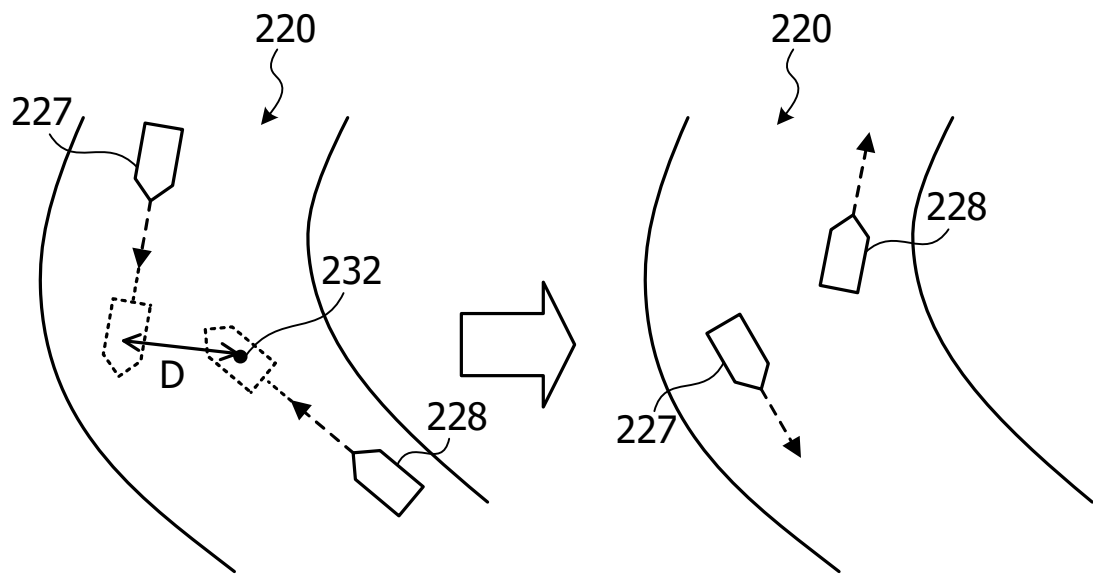
FIG. 14B



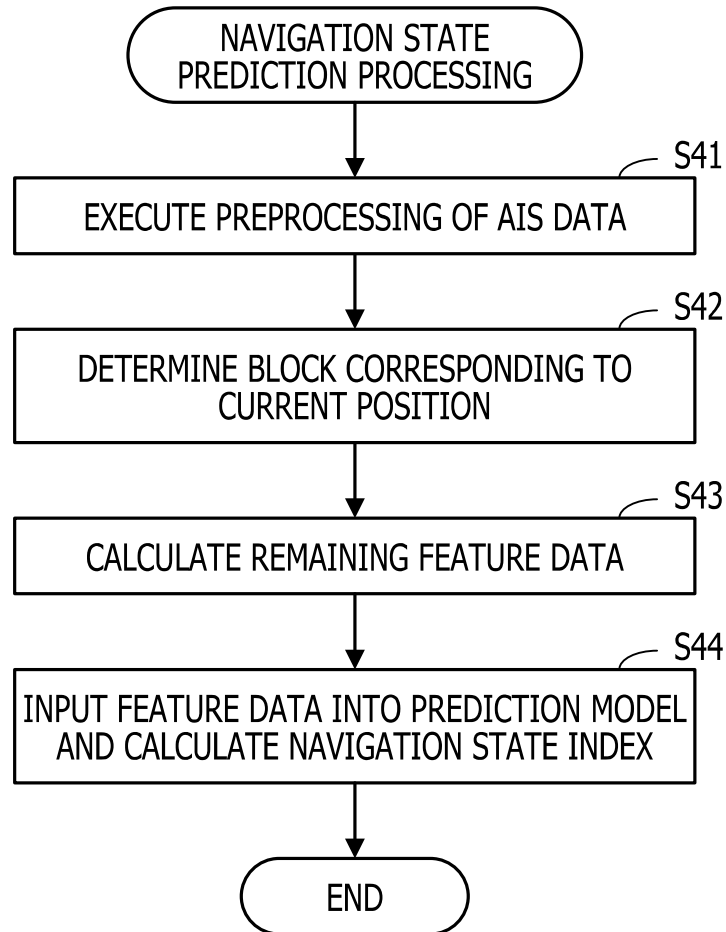
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FIG. 15



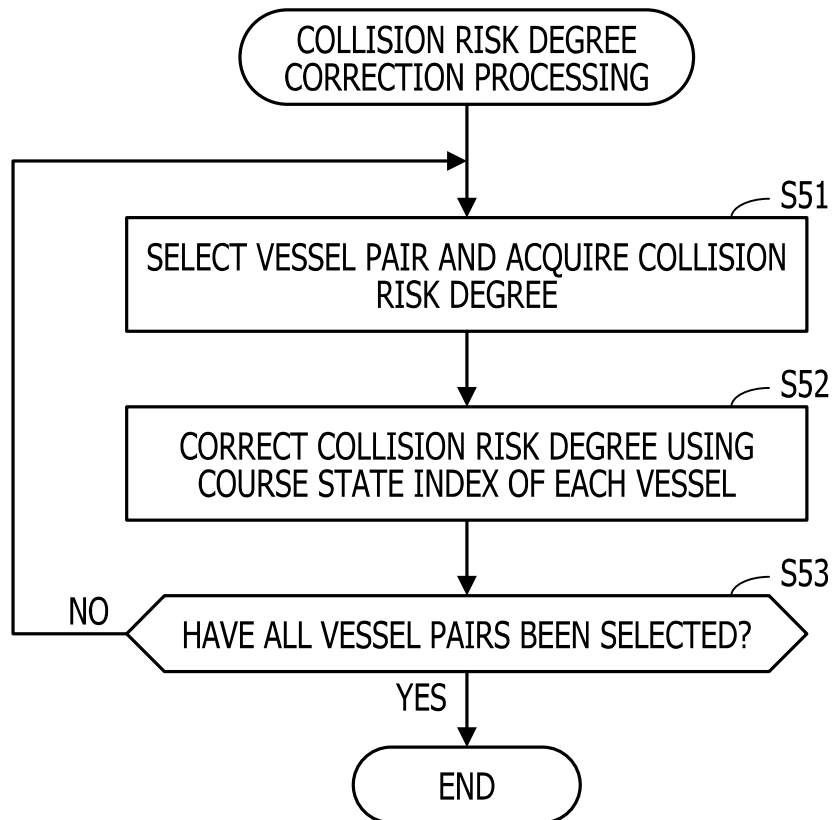
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FIG. 16



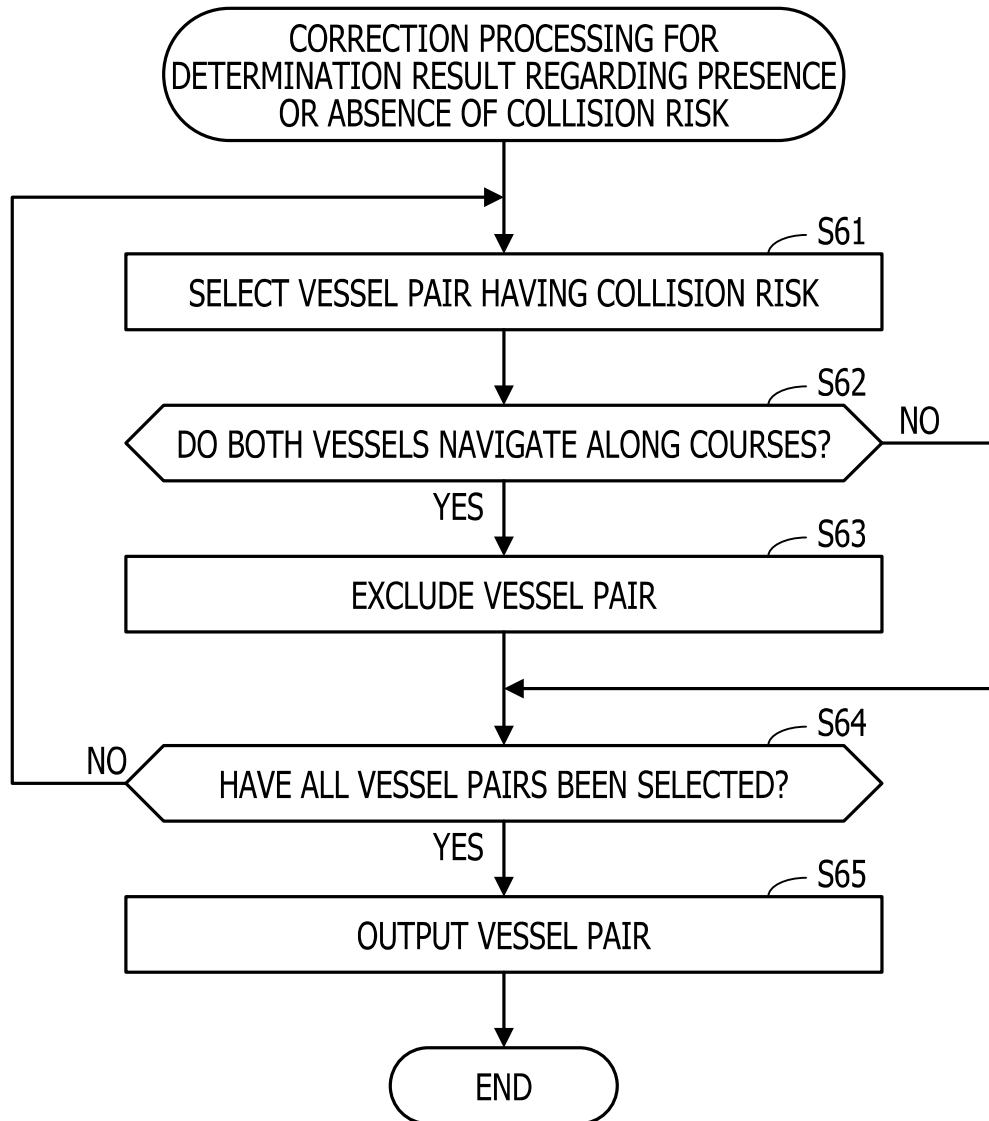
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FIG. 17

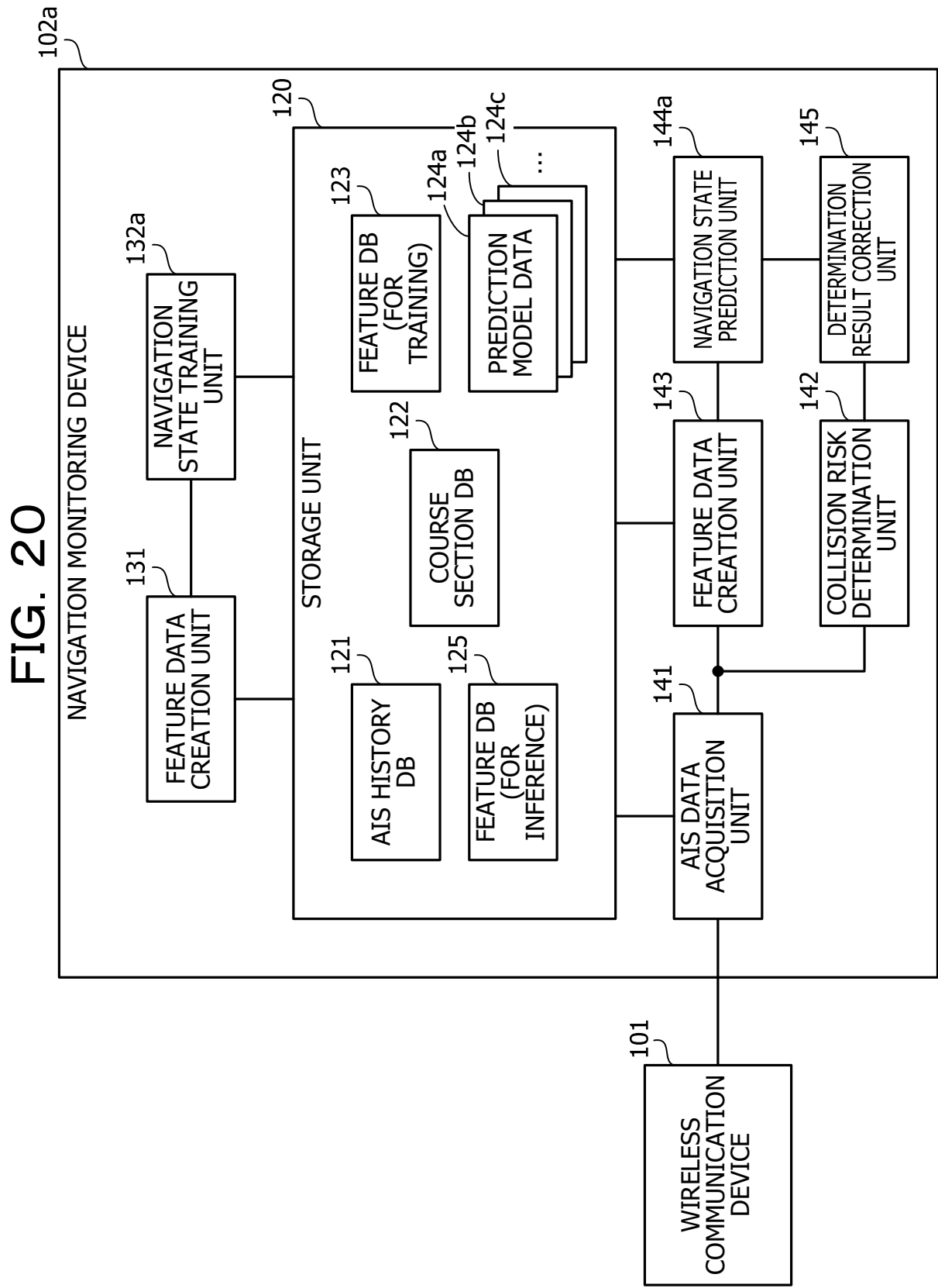


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FIG. 18



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FIG. 19

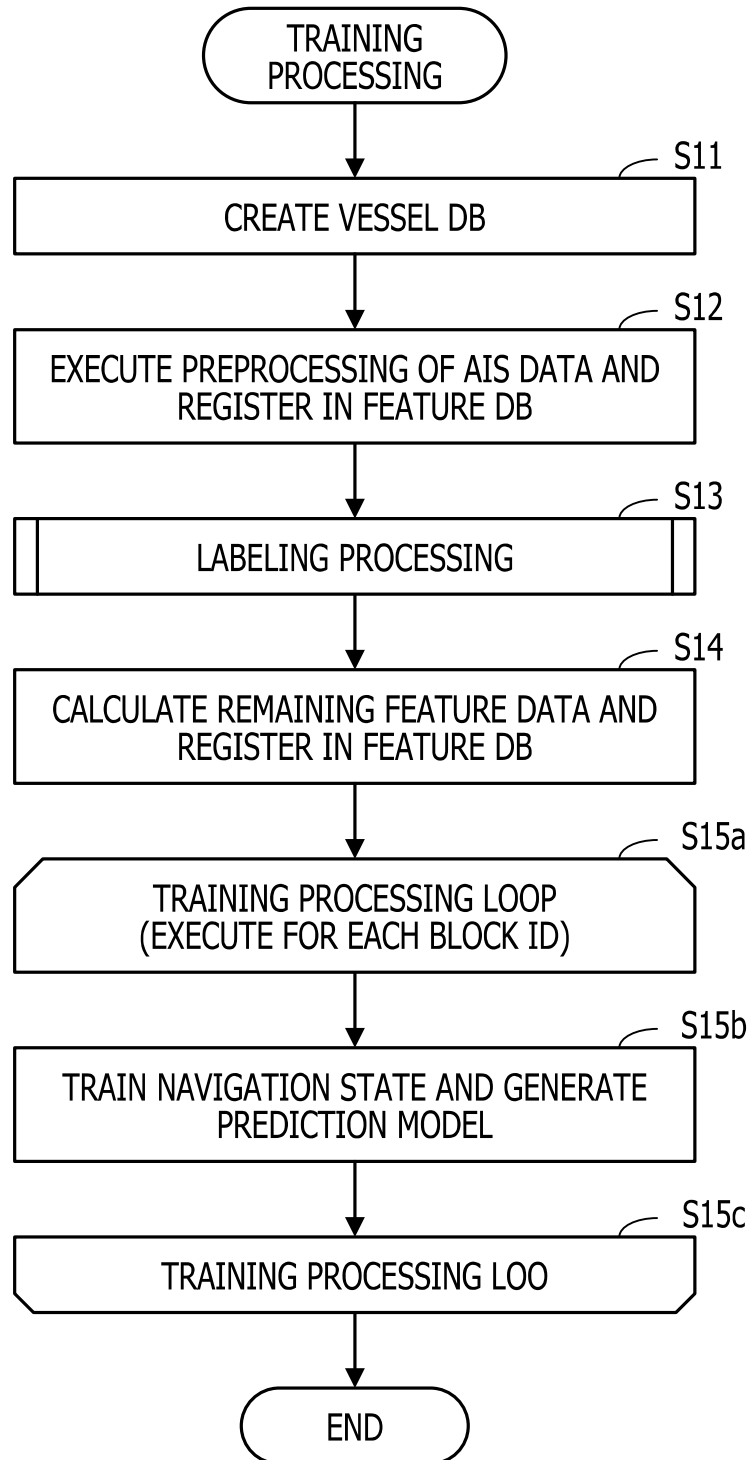




102a

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FIG. 21



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FIG. 22

