

FIG. 1

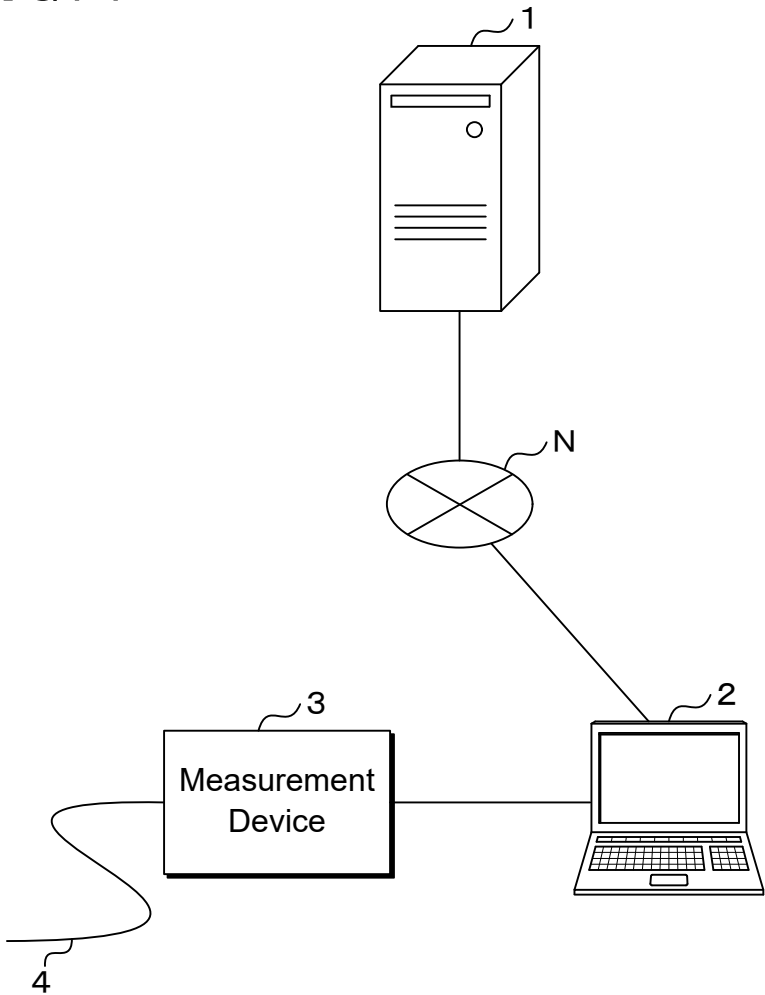


FIG. 2A

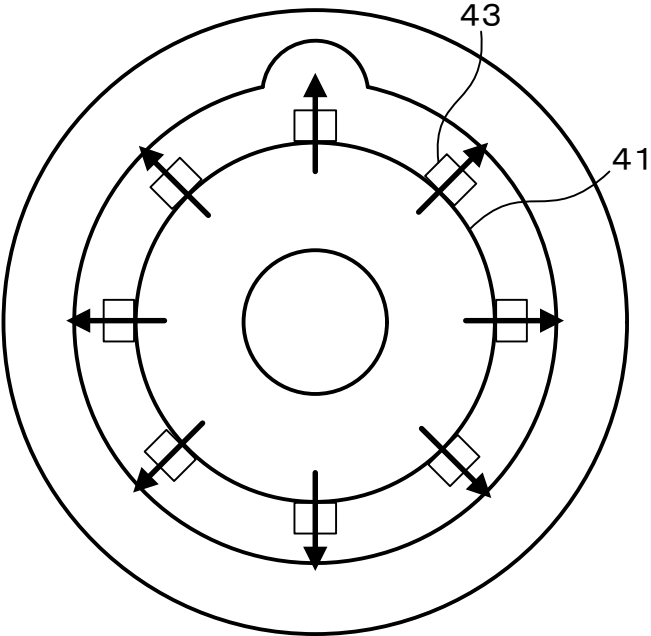


FIG. 2B

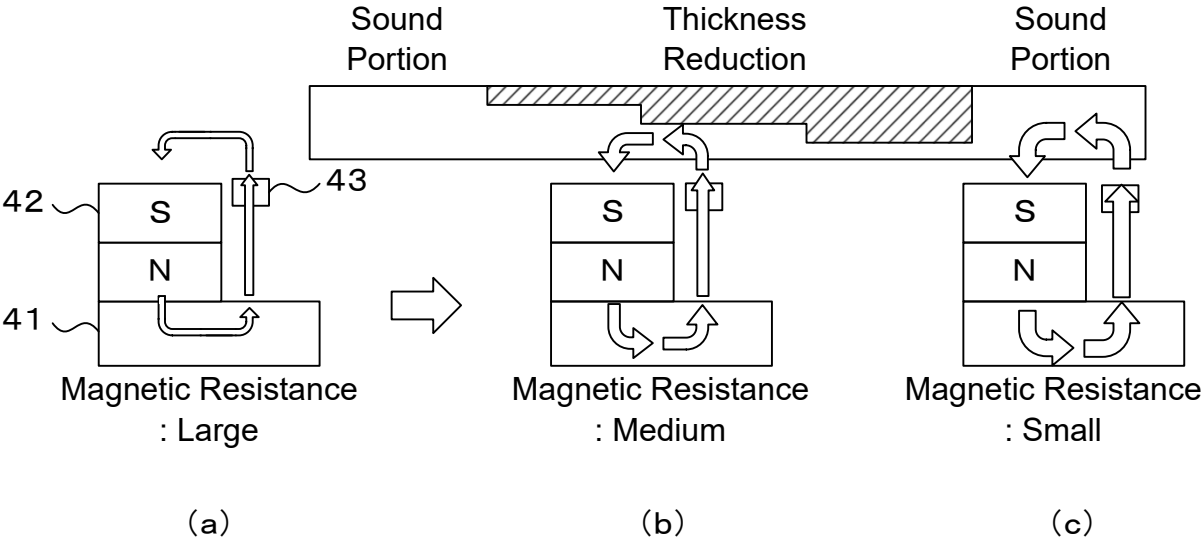


FIG. 3

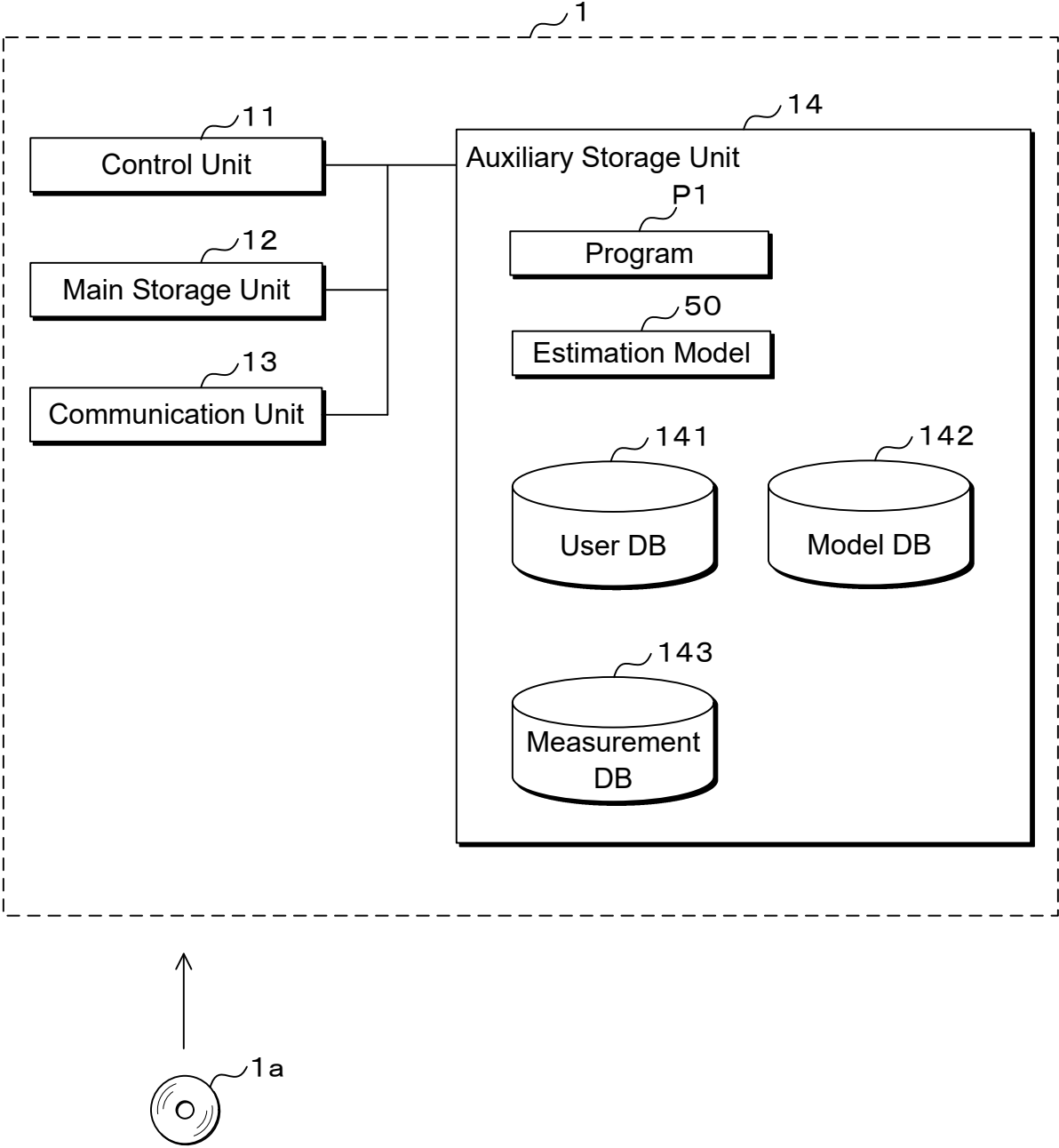


FIG. 4

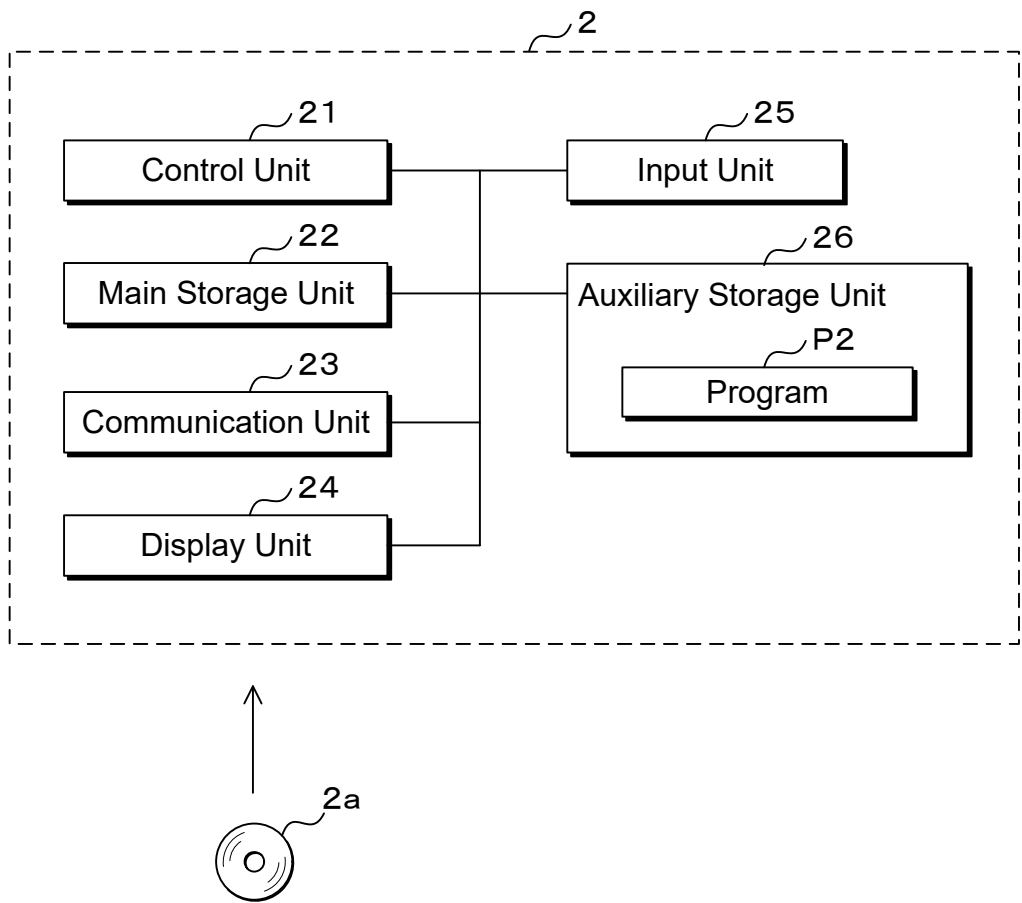


FIG . 5

User ID	User name	Use history		Usage fee
		Date	Usage model	
		2021/4/1 15:00-18:00 ...	Model A ...	
10001	AAA			***
...	...	...	...	...

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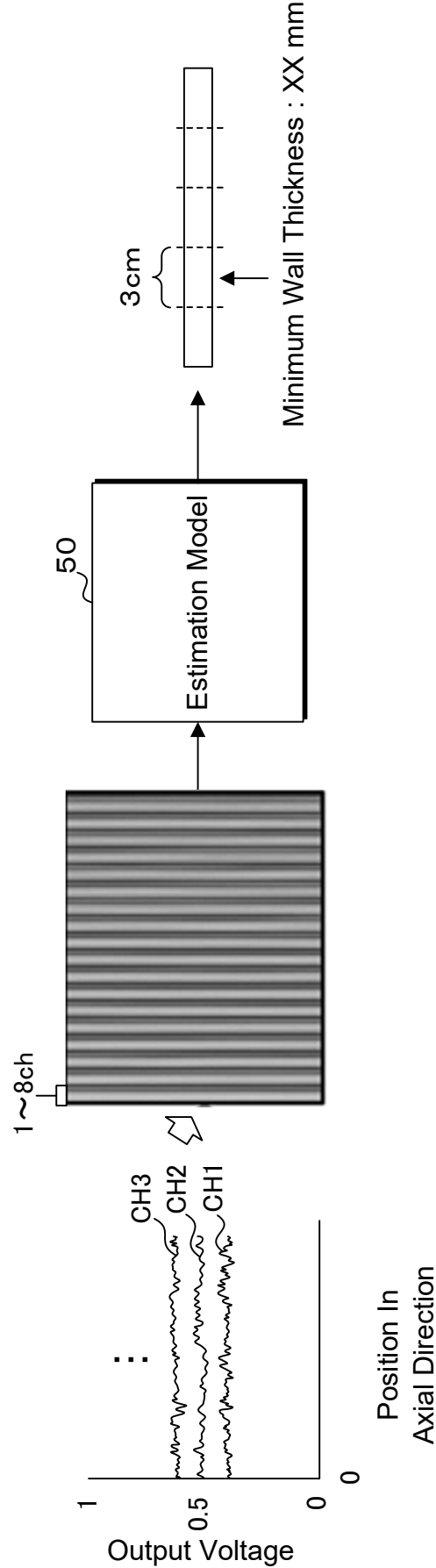
Model ID	Model name	Target		
		Thickness reduction aspect	Dimension	Material
		Local thickness reduction	φ 19 × 2.0t	Carbon steel
20001	Model A			
...	...	...	...	...

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Data ID	Date	Provider user	Target		Measurement data	Second measurement data
			Thickness reduction aspect	Dimension		
			Local thickness reduction	φ 19 × 2.0t		
30001	2021/4/1 15:00	User A	...	...	***	***
...	...	...	...	...	...	...

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FIG . 6



(a)

Position (mm)	Measurement value (raw data)								10-Point moving average			20-Point moving average			...
	CH1	CH2	...	CH8	Average	Standard deviation	Distortion	Kurtosis	CH1	CH2	...	CH1	CH2	...	
***	***	***	...	***	***	***	***	***	***	***	...	***	***	...	...

+

Measurement value (normalization)								10-Point moving average			20-Point moving average			...
CH1	CH2	...	CH8	Average	Standard deviation	Distortion	Kurtosis	CH1	CH2	...	CH1	CH2	...	
***	***	...	***	***	***	***	***	***	***	...	***	***	...	...

+

Measurement value (correction)								10-Point moving average			20-Point moving average			...
CH1	CH2	...	CH8	Average	Standard deviation	Distortion	Kurtosis	CH1	CH2	...	CH1	CH2	...	
***	***	...	***	***	***	***	***	***	***	...	***	***	...	...

↓ 8 Times

(b)

CH1(CH7)	CH2(CH8)	CH3(CH1)	...	CH8(CH6)
CH1(CH8)	CH2(CH1)	CH3(CH2)	...	CH8(CH7)
CH1	CH2	CH3	...	CH8
***	***	***	...	***
***	***	***	...	***

↓ 10 Times

(c)

CH1	CH2	CH3	...	CH8
CH1	CH2	CH3	...	CH8
CH1	CH2	CH3	...	CH8
***	***	***	...	***
***	***	***	...	***

↓ 6 Times

(d)

CH1	CH2	CH3	...	CH8
CH1	CH2	CH3	...	CH8
CH1	CH2	CH3	...	CH8
***	***	***	...	***
***	***	***	...	***

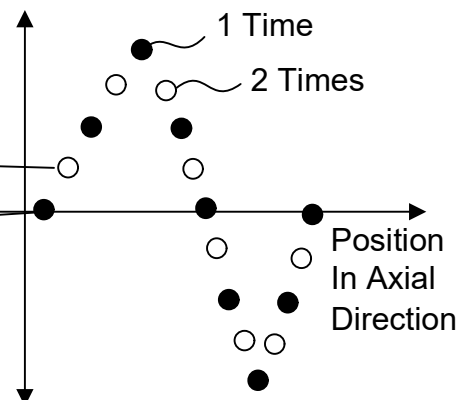
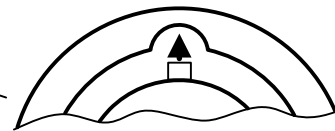


FIG. 7

FIG. 8

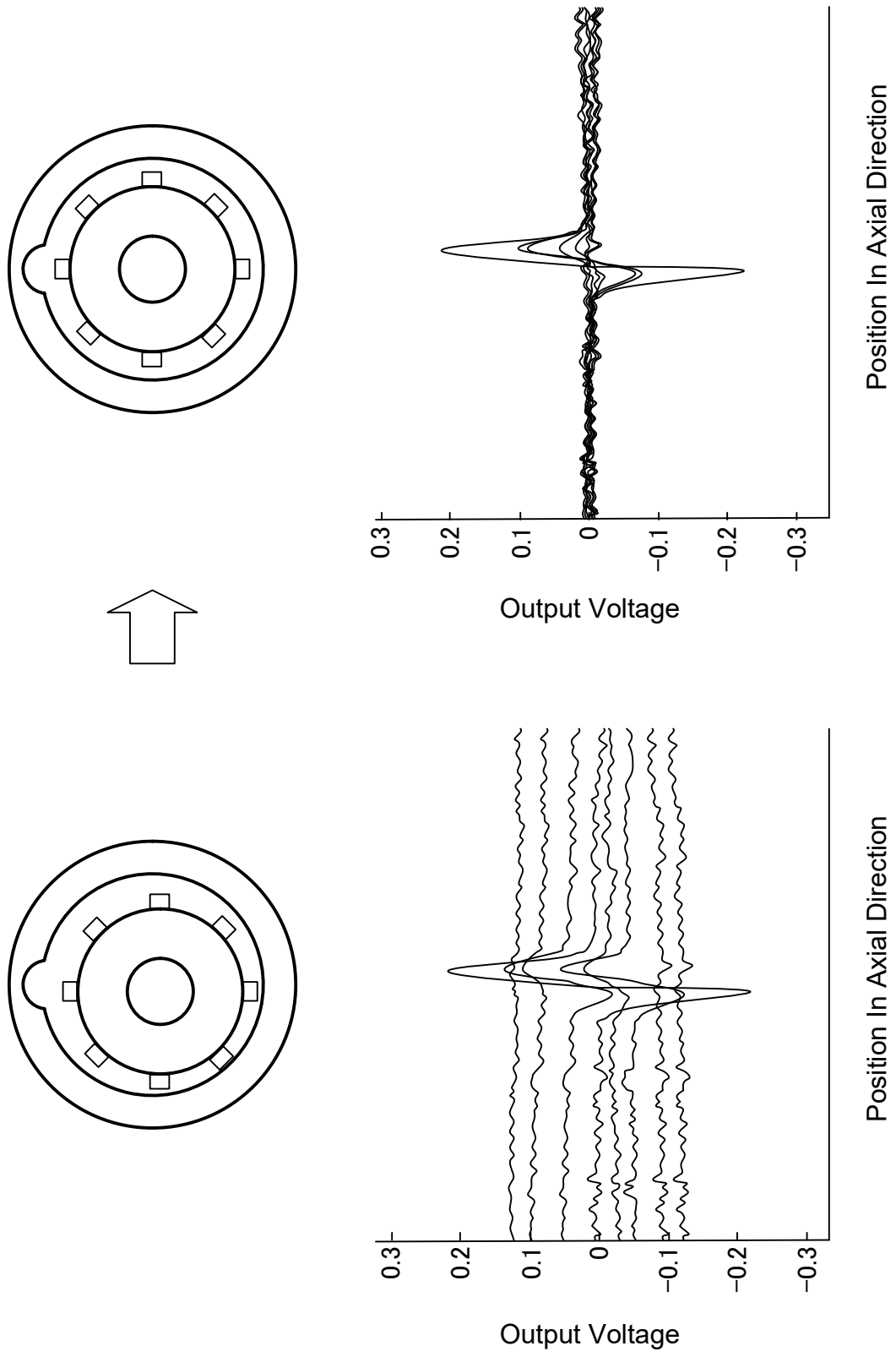


FIG . 9

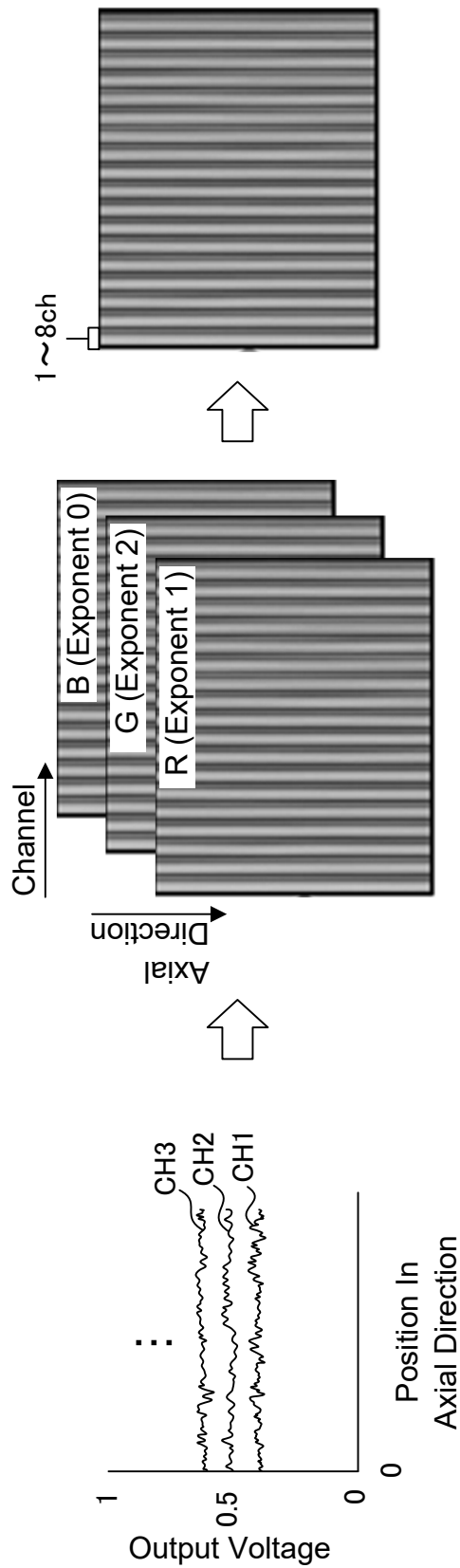


FIG. 10

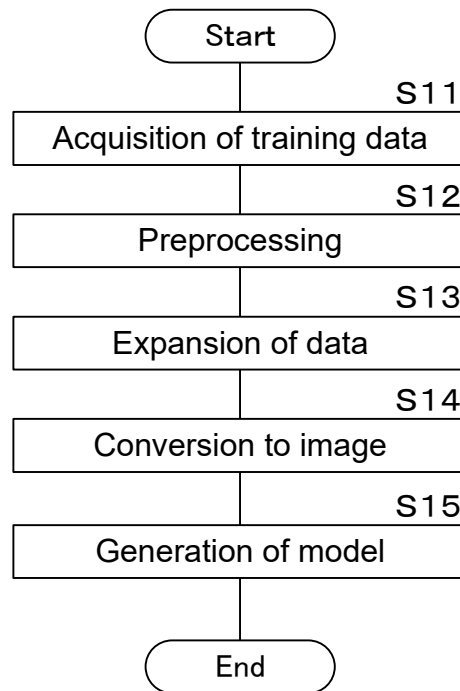


FIG. 11

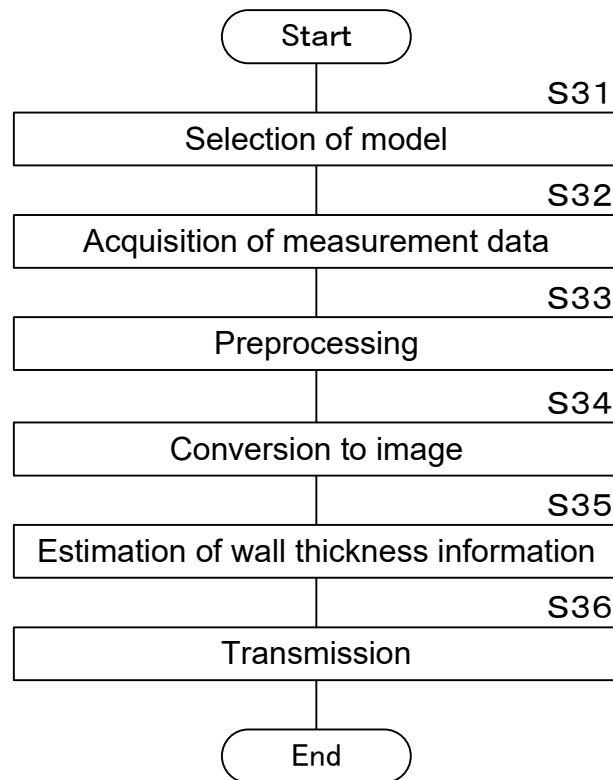


FIG. 12

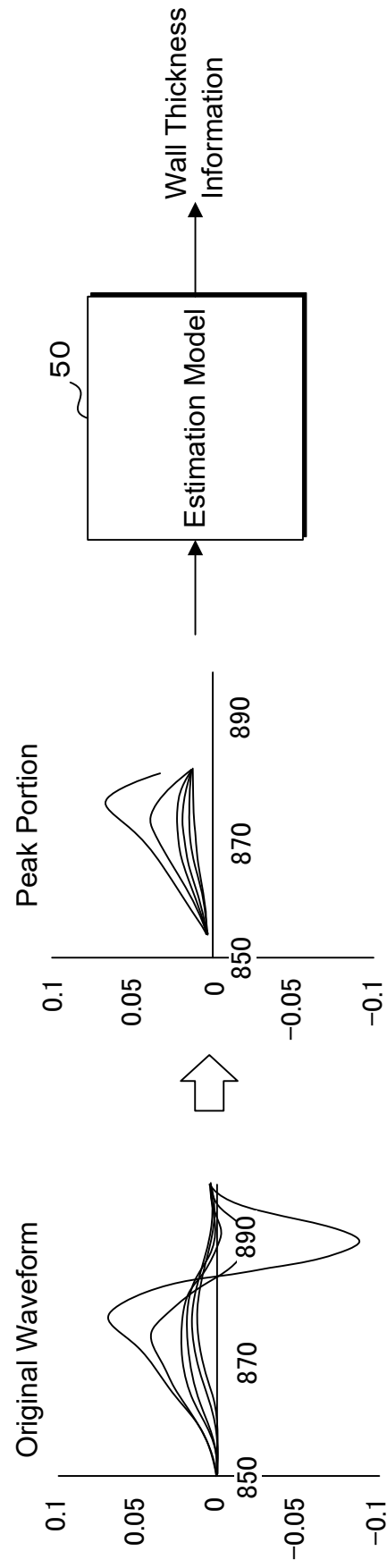


FIG. 13

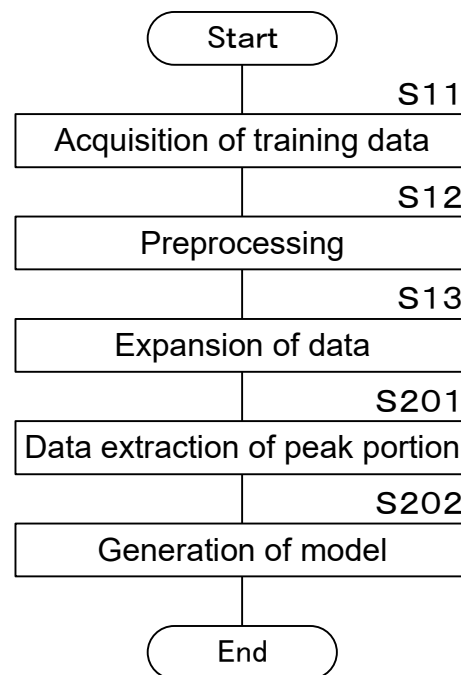


FIG. 14

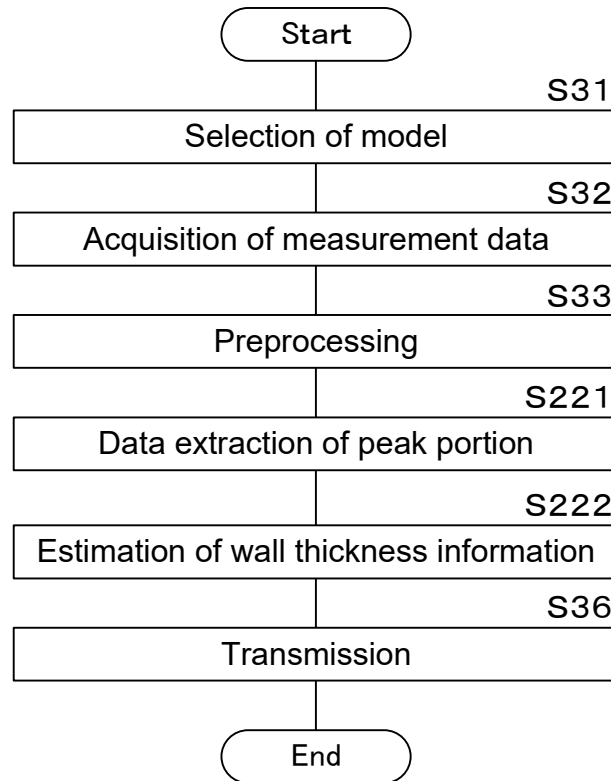


FIG. 15

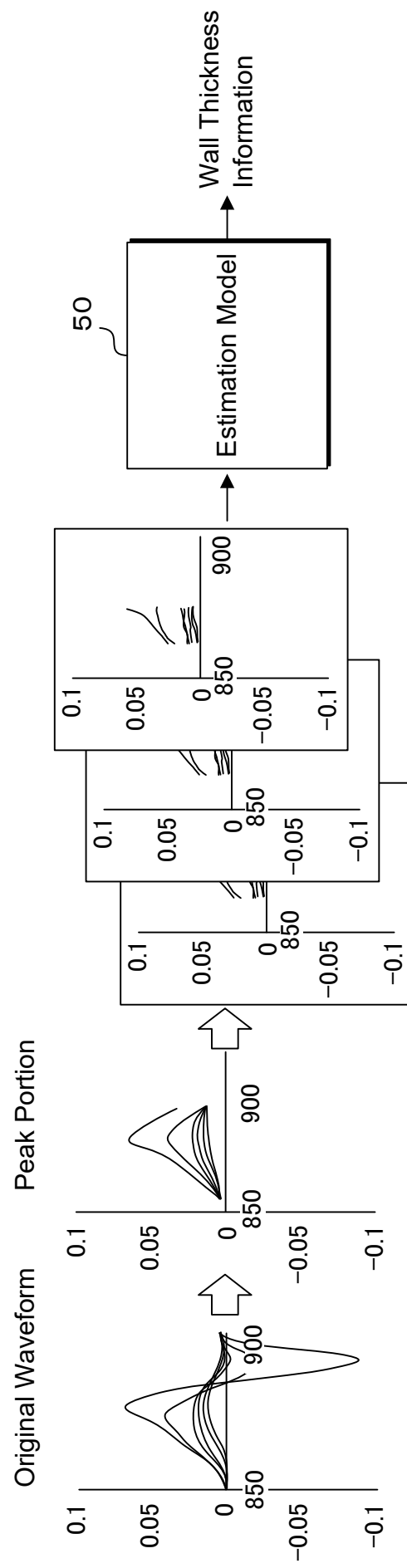


FIG. 16

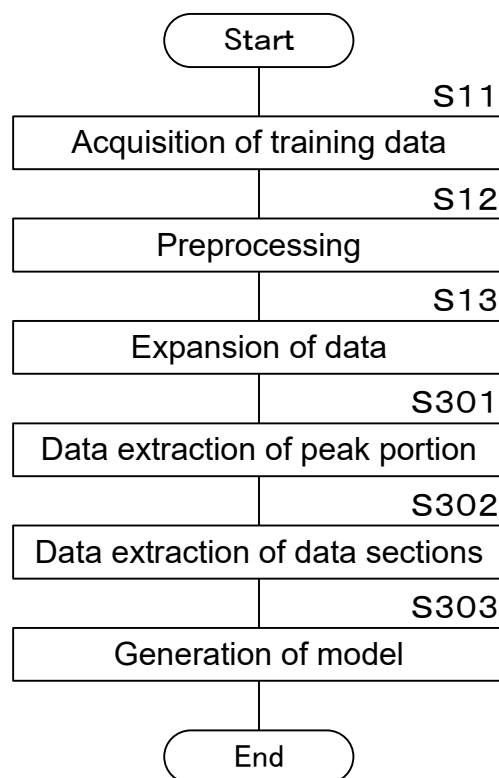


FIG. 17

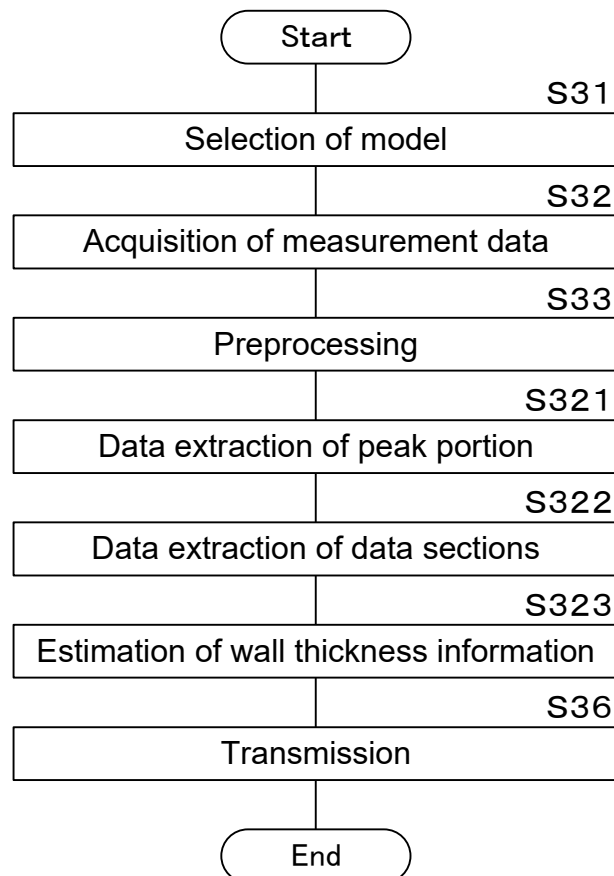


FIG. 18

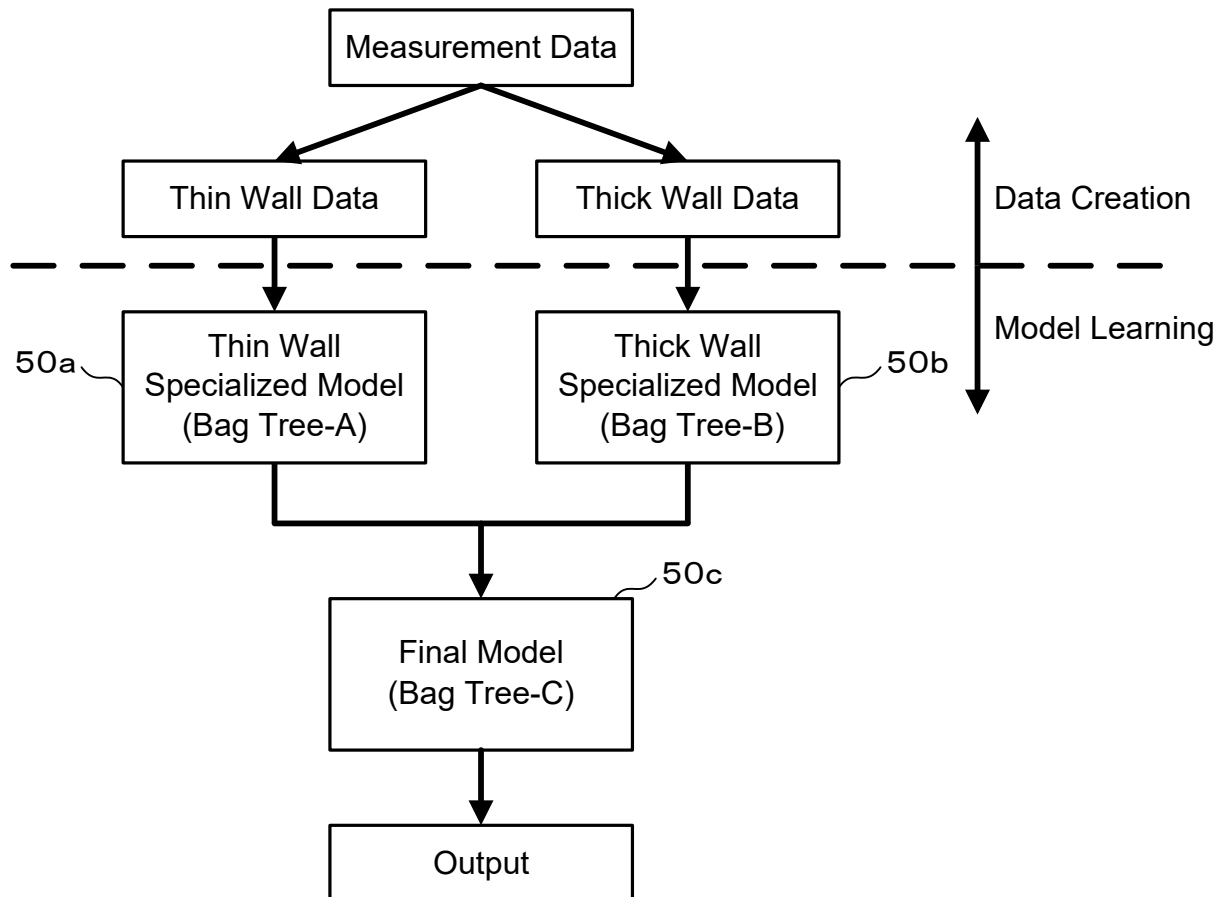


FIG. 19

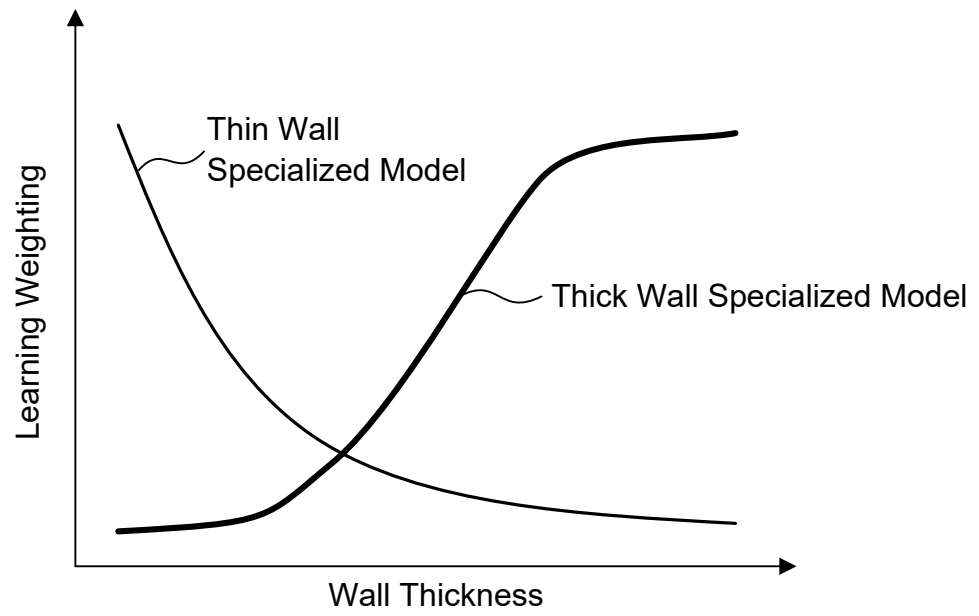


FIG . 20

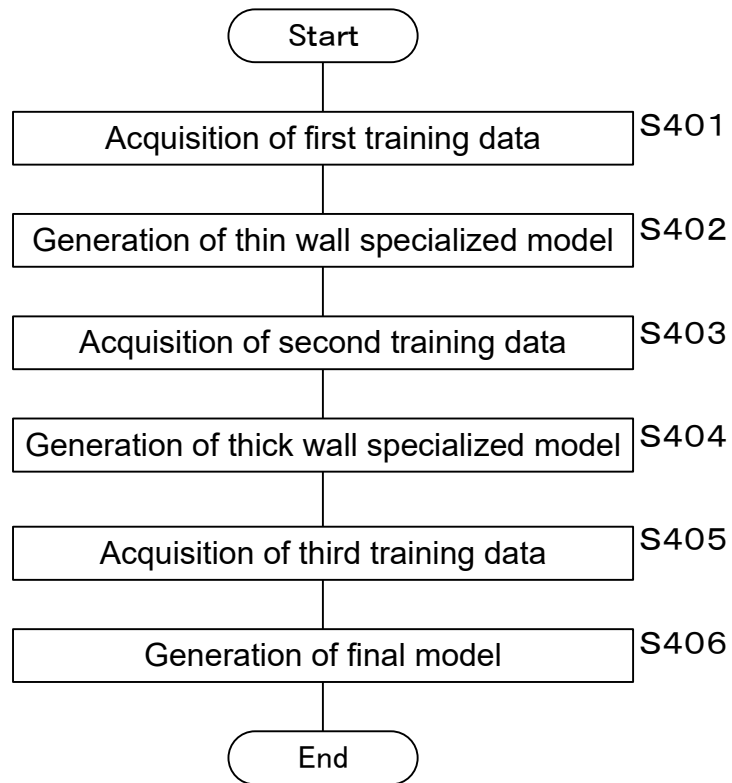


FIG. 21

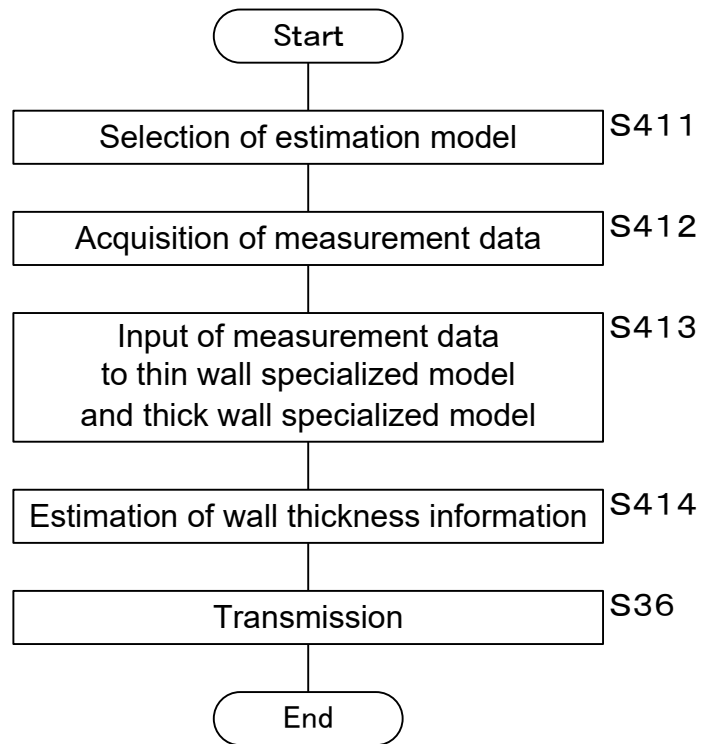


FIG . 22

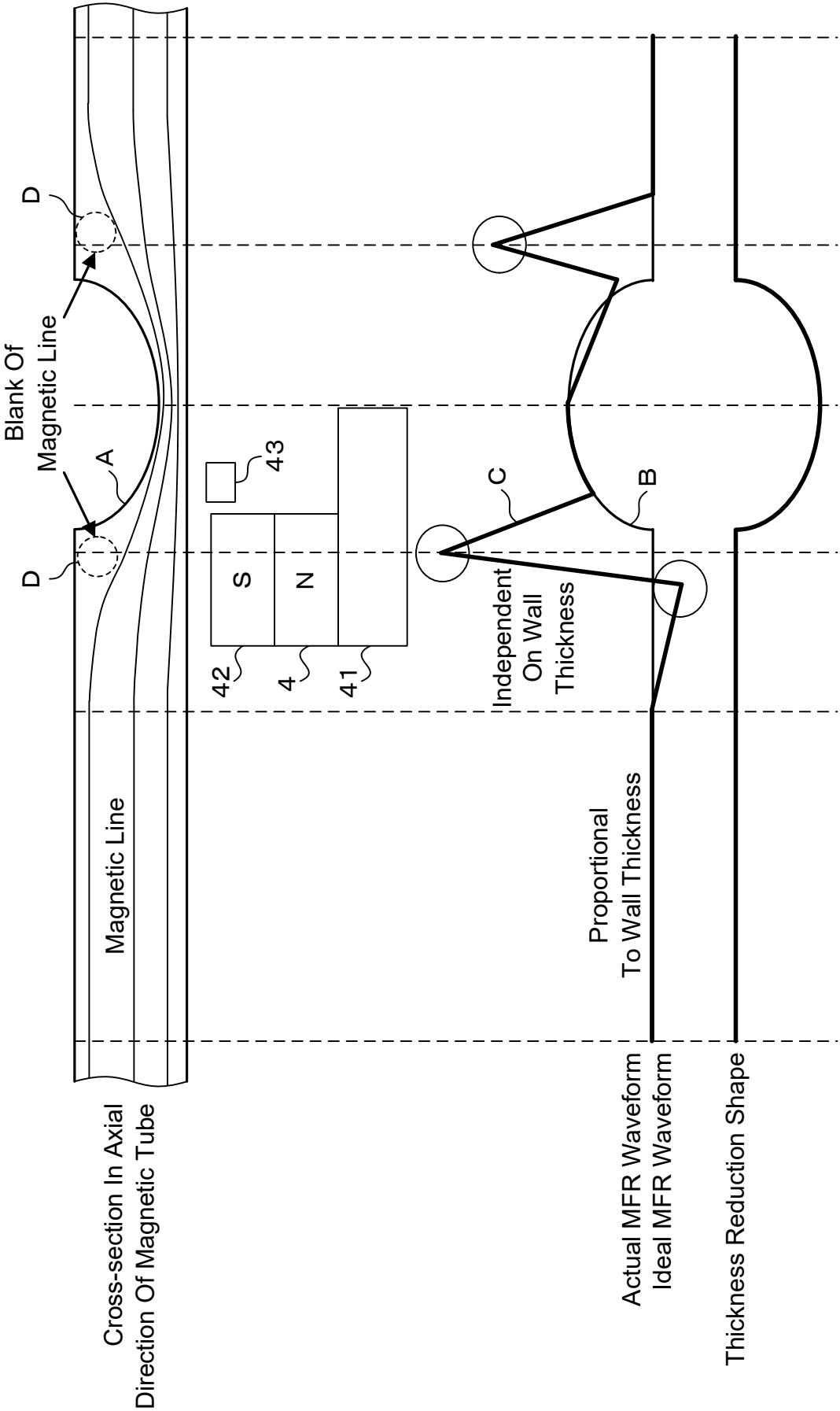


FIG . 23A

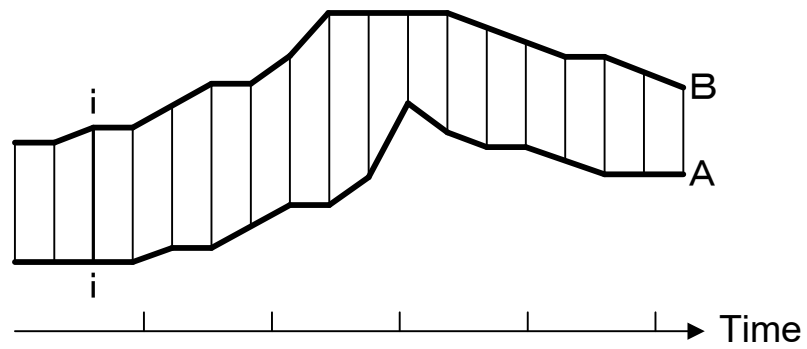


FIG . 23B

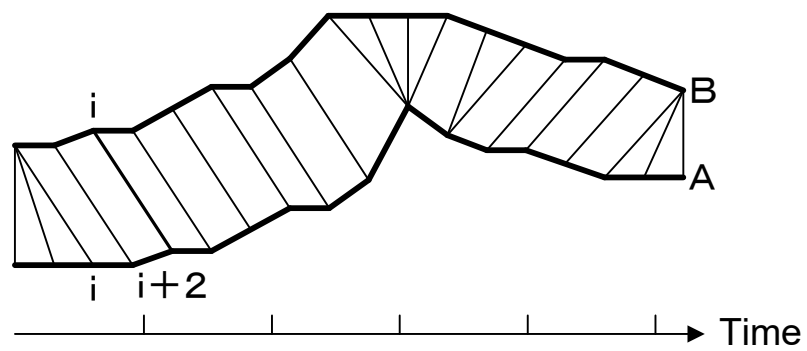
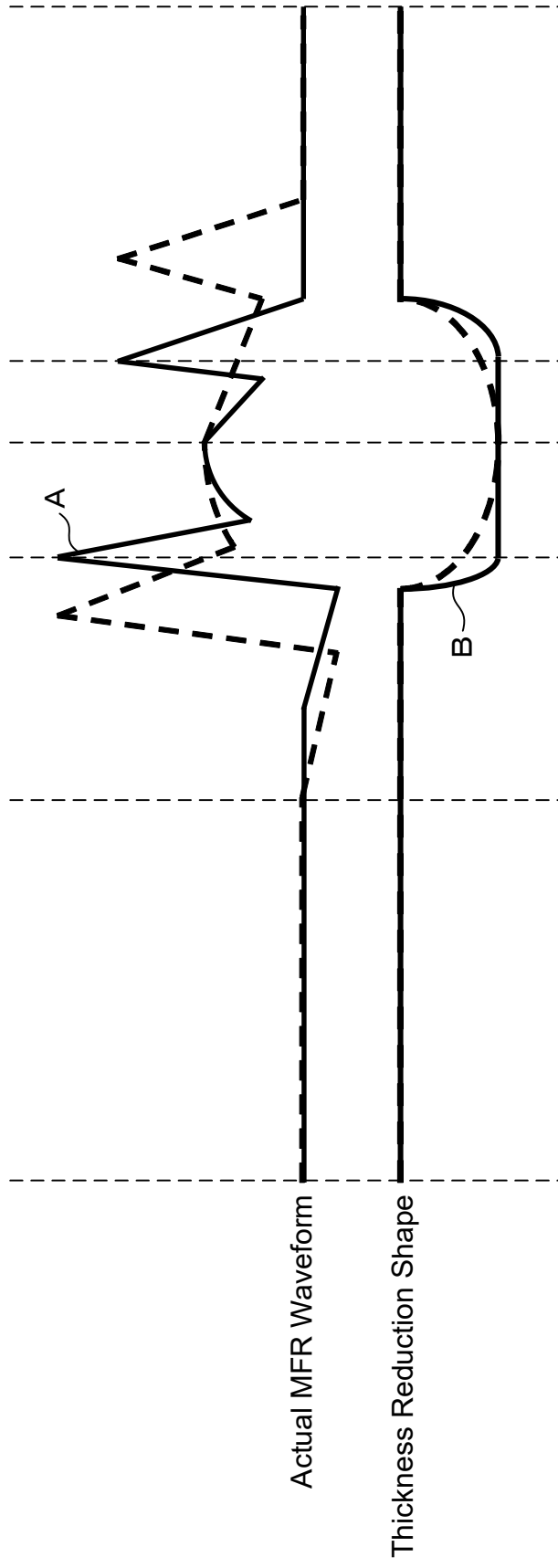


FIG . 24



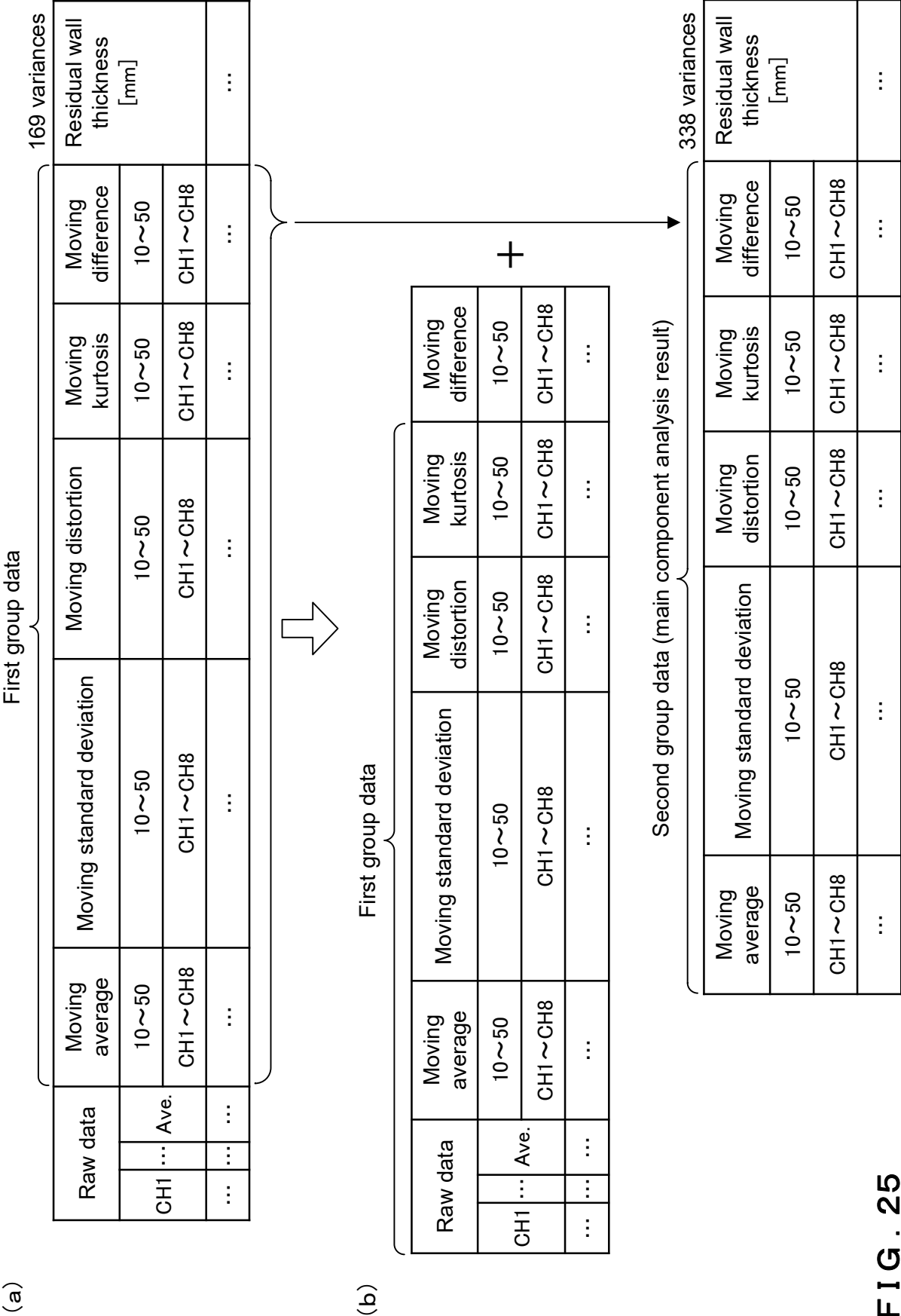
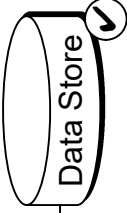
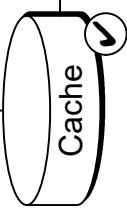
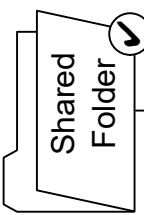


FIG . 25

FIG . 26

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Status : Online



Model Selection

Thickness Reduction Aspect

Local Thickness Reduction

1711 Tube

Dimension

φ 19 X 2.0t

Material

Carbon Steel

1712

1713

Number Of Tubes : 2052 Pieces

Tube Length : 3500 mm

173

172

Upload

☒ Data Provision Availability

Progress

1026th/2052

End Scheduled Time 17 : 50

Remaining Time 0 : 50

Download

FIG . 27

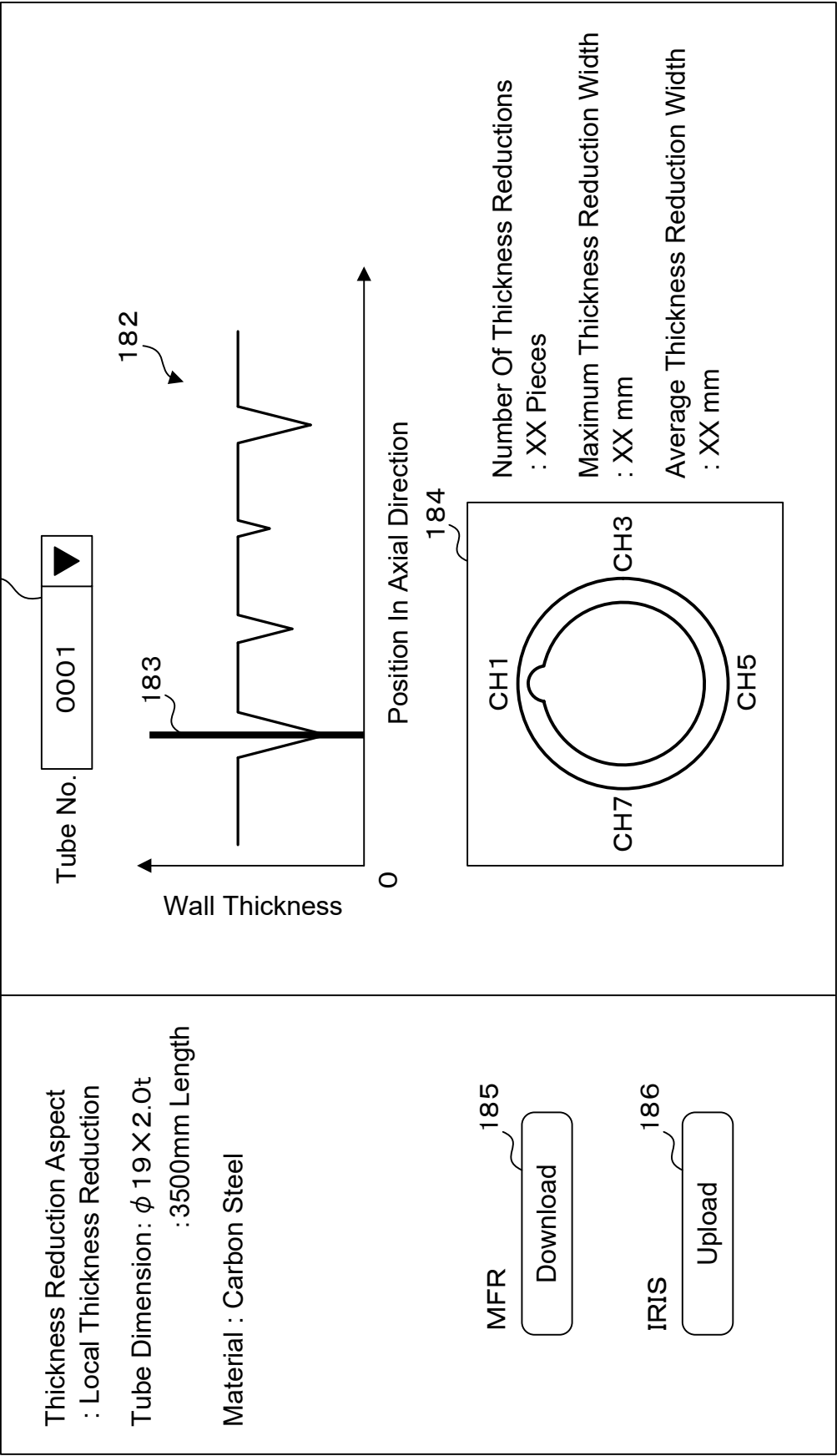


FIG. 28

