

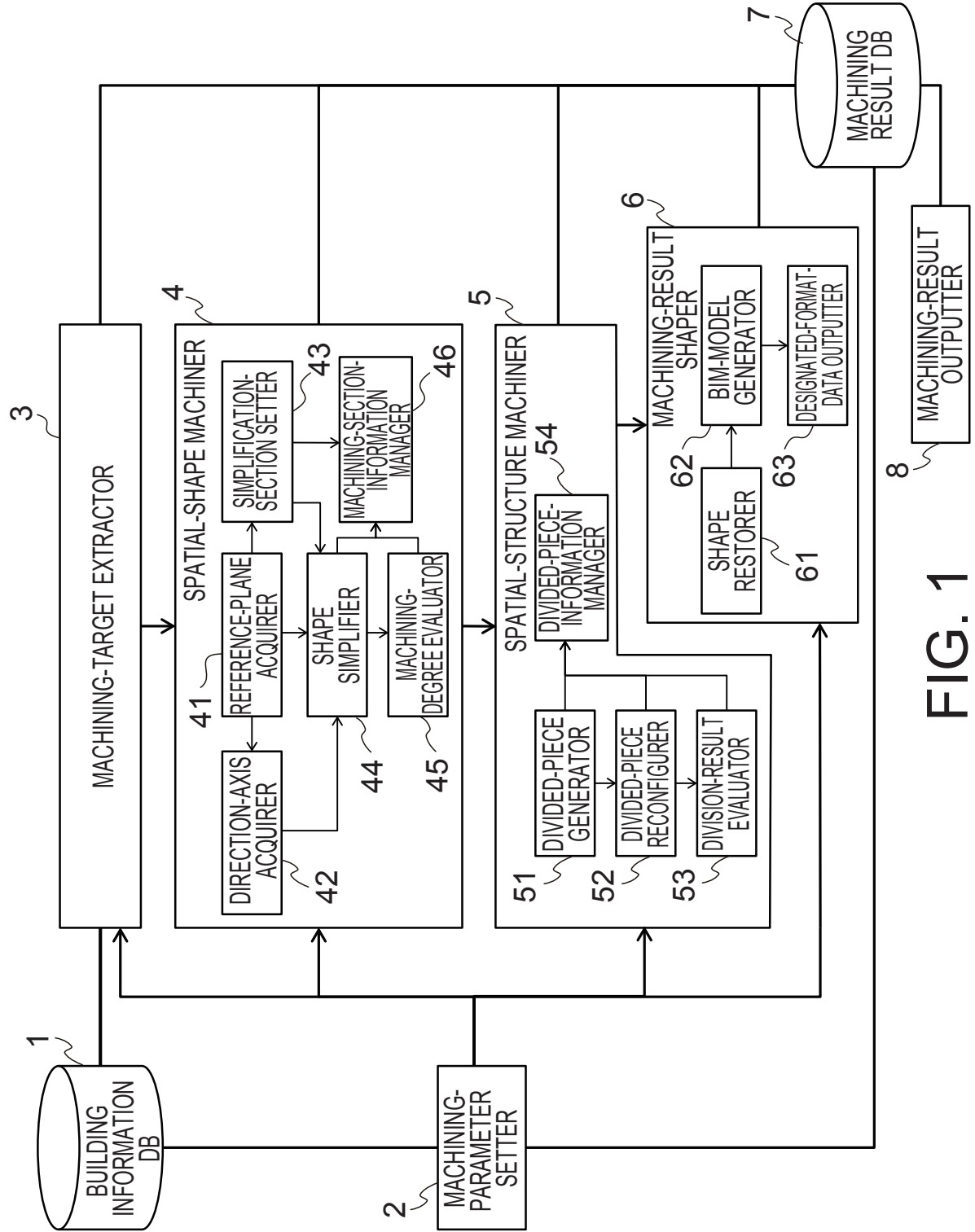


FIG. 1

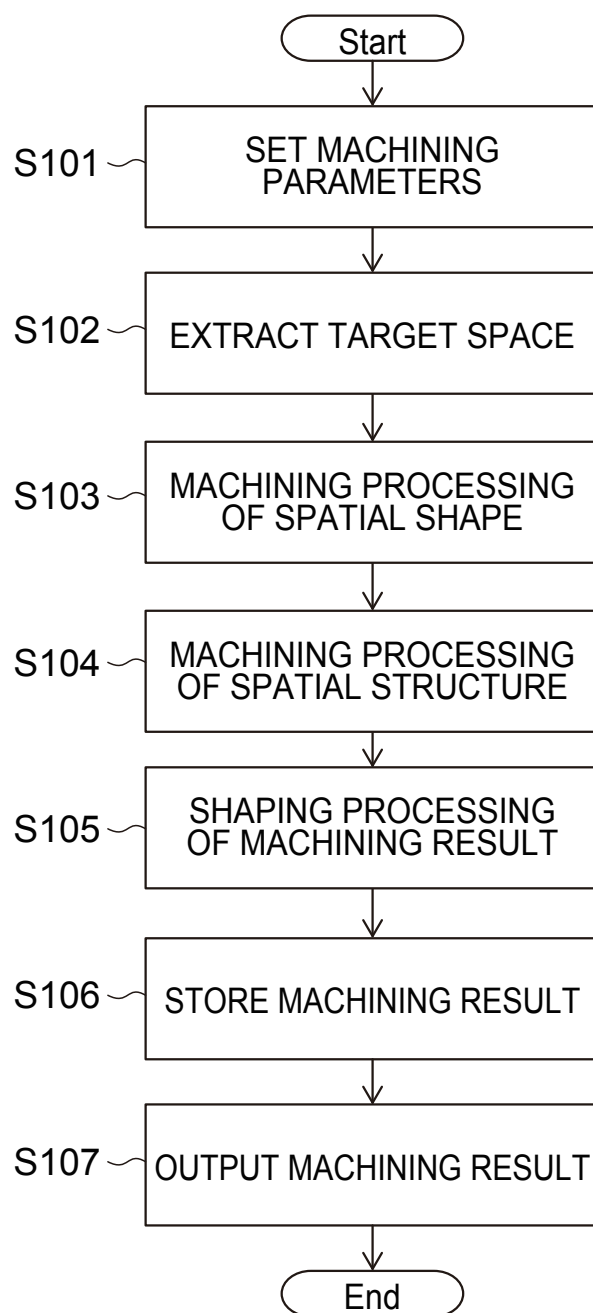


FIG. 2

<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <h3 style="text-align: center; margin: 0;">SELECTION OF TARGET SPACE</h3> <div style="display: flex; align-items: center; margin-bottom: 10px;"> ▪ FLOOR <div style="border: 1px solid black; flex-grow: 1; position: relative;"> <div style="position: absolute; right: 0; top: 0; bottom: 0; text-align: center;"> ▲ □ ▼ </div> </div> </div> <div style="display: flex; justify-content: center; gap: 20px; margin-bottom: 10px;"> <div style="border: 1px solid black; padding: 5px 15px;">SELECT ALL</div> <div style="border: 1px solid black; padding: 5px 15px;">RELEASE ALL</div> </div> <div style="border: 1px solid black; height: 150px; position: relative;"> <div style="position: absolute; right: 0; top: 0; bottom: 0; text-align: center;"> ▲ ▮ ▼ </div> </div> <div style="display: flex; justify-content: center; gap: 20px; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px 15px;">SELECT ALL</div> <div style="border: 1px solid black; padding: 5px 15px;">RELEASE ALL</div> </div> </div> <div style="border: 1px solid black; padding: 5px;"> <h3 style="text-align: center; margin: 0;">SELECTION CONDITION</h3> <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 15%;"></th> <th style="width: 25%; text-align: center; font-size: small;">LOWER LIMIT VALUE</th> <th style="width: 10%; text-align: center;">~</th> <th style="width: 25%; text-align: center; font-size: small;">UPPER LIMIT VALUE</th> <th style="width: 25%;"></th> </tr> <tr> <td>▪ AREA</td> <td><input style="width: 80%;" type="text"/></td> <td></td> <td><input style="width: 80%;" type="text"/></td> <td></td> </tr> <tr> <td>▪ NAME</td> <td colspan="4"><input style="width: 100%;" type="text"/></td> </tr> <tr> <td>▪ USE</td> <td colspan="4"><input style="width: 100%;" type="text"/> ▼</td> </tr> <tr> <td>▪ STATE</td> <td colspan="4"><input style="width: 100%;" type="text"/> ▼</td> </tr> <tr> <td colspan="5" style="border-top: 1px solid black; padding-top: 10px;"> <div style="display: flex; align-items: center; margin-bottom: 10px;"> ▪ ADJACENCY <input style="width: 80%;" type="text"/> </div> <div style="display: flex; align-items: center; margin-bottom: 10px;"> ▪ RANGE <input style="width: 80%;" type="text"/> </div> <div style="display: flex; align-items: center; margin-bottom: 10px;"> ● INCLUDED ○ PART </div> <div style="display: flex; align-items: center;"> ▪ SIMILARITY <div style="display: flex; gap: 10px;"> <div style="border: 1px solid black; padding: 2px 5px;">(SHAPE) ▼</div> <div style="border: 1px solid black; padding: 2px 5px;">(STRUCTURE) ▼</div> </div> </div> </td> </tr> <tr> <td colspan="5" style="text-align: center; padding: 10px;"> <div style="border: 1px solid black; padding: 5px 20px; display: inline-block; margin-bottom: 10px;">APPLY</div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div>● AND ○ OR</div> <div>● 2D ○ 3D</div> </div> </td> </tr> </table> </div>		LOWER LIMIT VALUE	~	UPPER LIMIT VALUE		▪ AREA	<input style="width: 80%;" type="text"/>		<input style="width: 80%;" type="text"/>		▪ NAME	<input style="width: 100%;" type="text"/>				▪ USE	<input style="width: 100%;" type="text"/> ▼				▪ STATE	<input style="width: 100%;" type="text"/> ▼				<div style="display: flex; align-items: center; margin-bottom: 10px;"> ▪ ADJACENCY <input style="width: 80%;" type="text"/> </div> <div style="display: flex; align-items: center; margin-bottom: 10px;"> ▪ RANGE <input style="width: 80%;" type="text"/> </div> <div style="display: flex; align-items: center; margin-bottom: 10px;"> ● INCLUDED ○ PART </div> <div style="display: flex; align-items: center;"> ▪ SIMILARITY <div style="display: flex; gap: 10px;"> <div style="border: 1px solid black; padding: 2px 5px;">(SHAPE) ▼</div> <div style="border: 1px solid black; padding: 2px 5px;">(STRUCTURE) ▼</div> </div> </div>					<div style="border: 1px solid black; padding: 5px 20px; display: inline-block; margin-bottom: 10px;">APPLY</div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div>● AND ○ OR</div> <div>● 2D ○ 3D</div> </div>					<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <h3 style="text-align: center; margin: 0;">SHAPE MACHINING</h3> <div style="display: flex; align-items: center; margin-bottom: 10px;"> ▪ DIRECTION REFERENCE <div style="border: 1px solid black; flex-grow: 1; position: relative;"> <div style="position: absolute; right: 0; top: 0; bottom: 0; text-align: center;"> ▲ □ ▼ </div> </div> </div> <div style="display: flex; align-items: center; margin-bottom: 10px;"> ▪ OMISSION TARGET <div style="border: 1px solid black; flex-grow: 1; position: relative;"> <div style="position: absolute; right: 0; top: 0; bottom: 0; text-align: center;"> ▲ □ ▼ </div> </div> </div> <div style="display: flex; align-items: center; margin-bottom: 10px;"> ▪ SHORT-CIRCUIT DISTANCE <input style="width: 80%;" type="text"/> </div> <div style="display: flex; align-items: center; margin-bottom: 10px;"> ▪ MACHINING RATIO <input style="width: 80%;" type="text"/> </div> <div style="display: flex; align-items: center;"> ▪ SHAPE RESTORATION <input style="width: 80%;" type="text"/> ▼ </div> </div> <div style="border: 1px solid black; padding: 5px;"> <h3 style="text-align: center; margin: 0;">ZONING</h3> <div style="display: flex; align-items: center; margin-bottom: 10px;"> ▪ DIVISION REFERENCE <div style="border: 1px solid black; flex-grow: 1; position: relative;"> <div style="position: absolute; right: 0; top: 0; bottom: 0; text-align: center;"> ▼ </div> </div> </div> <div style="display: flex; align-items: center; margin-bottom: 10px;"> ▪ ADOPTION REFERENCE <div style="border: 1px solid black; flex-grow: 1; position: relative;"> <div style="position: absolute; right: 0; top: 0; bottom: 0; text-align: center;"> ▲ □ ▼ </div> </div> </div> <div style="display: flex; align-items: center; margin-bottom: 10px;"> ▪ MAXIMUM AREA <input style="width: 80%;" type="text"/> </div> <div style="display: flex; align-items: center; margin-bottom: 10px;"> ▪ MAXIMUM INTERVAL COEFFICIENT <div style="border: 1px solid black; flex-grow: 1; position: relative;"> <div style="position: absolute; right: 0; top: 0; bottom: 0; text-align: center;"> ▼ </div> </div> (NUMBER OF ELEMENTS) </div> <div style="display: flex; align-items: center; margin-bottom: 10px;"> ▪ SUBDIVIDING METHOD <div style="border: 1px solid black; flex-grow: 1; position: relative;"> <div style="position: absolute; right: 0; top: 0; bottom: 0; text-align: center;"> ▼ </div> </div> </div> <div style="display: flex; align-items: center; margin-bottom: 10px;"> ▪ AGGREGATING METHOD <div style="border: 1px solid black; flex-grow: 1; position: relative;"> <div style="position: absolute; right: 0; top: 0; bottom: 0; text-align: center;"> ▼ </div> </div> </div> <div style="display: flex; align-items: center;"> ▪ SITUATION CONSIDERATION <div style="border: 1px solid black; flex-grow: 1; position: relative;"> <div style="position: absolute; right: 0; top: 0; bottom: 0; text-align: center;"> ▼ </div> </div> </div> </div>
	LOWER LIMIT VALUE	~	UPPER LIMIT VALUE																																	
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▪ NAME	<input style="width: 100%;" type="text"/>																																			
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<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <h3 style="text-align: center; margin: 0;">EXECUTION POINT</h3> <div style="display: flex; align-items: center;"> ▪ ERROR ALLOWANCE <div style="border: 1px solid black; flex-grow: 1; position: relative;"> <div style="position: absolute; right: 0; top: 0; bottom: 0; text-align: center;"> ▼ </div> </div> (LEVEL) </div> </div>																																				
<div style="border: 1px solid black; padding: 5px;"> <h3 style="text-align: center; margin: 0;">OUTPUT POINT</h3> <div style="display: flex; align-items: center; margin-bottom: 10px;"> ▪ SPACE HEIGHT <div style="border: 1px solid black; flex-grow: 1; position: relative;"> <div style="position: absolute; right: 0; top: 0; bottom: 0; text-align: center;"> ▼ </div> </div> </div> <div style="display: flex; align-items: center; margin-bottom: 10px;"> ▪ SCHEMER <div style="display: flex; gap: 20px;"> <div> ☐ IFC ☐ gbXML ☐ MQTT </div> <div> ☐ ifcXML ☐ COBie </div> </div> </div> </div>																																				
<div style="display: flex; justify-content: space-around; margin: 0 auto; width: 80%;"> <div style="border: 1px solid black; padding: 10px 20px;">CANCEL</div> <div style="border: 1px solid black; padding: 10px 20px;">EXECUTE</div> </div>																																				

FIG. 3

— SURFACE OF DESIGNATED ELEMENT (E.G., COLUMN)
 - - - SURFACE OTHER THAN DESIGNATED ELEMENT

FIG. 4A

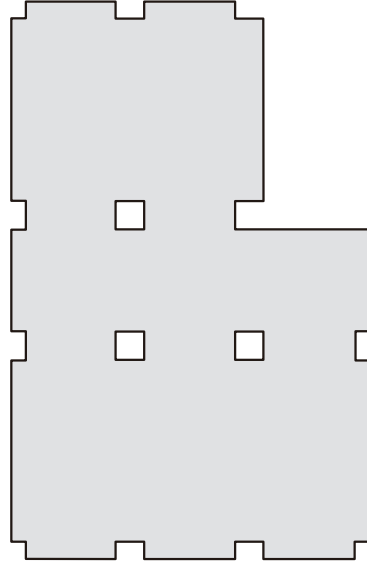


FIG. 4B

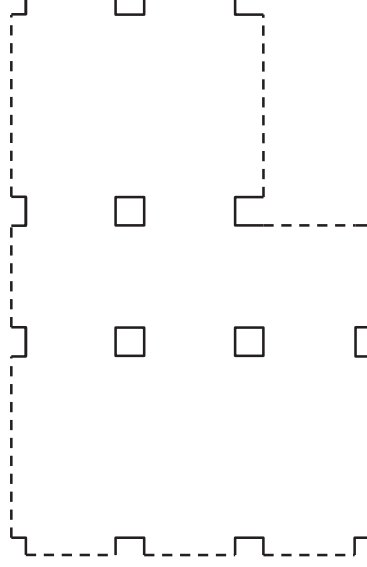


FIG. 4C

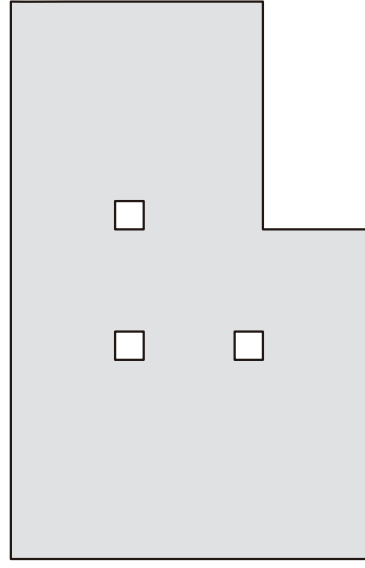


FIG. 4D

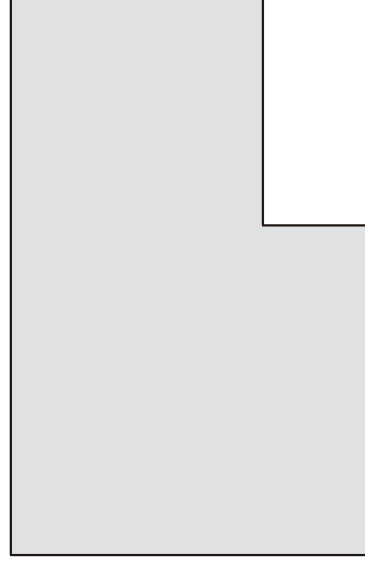


FIG. 5A

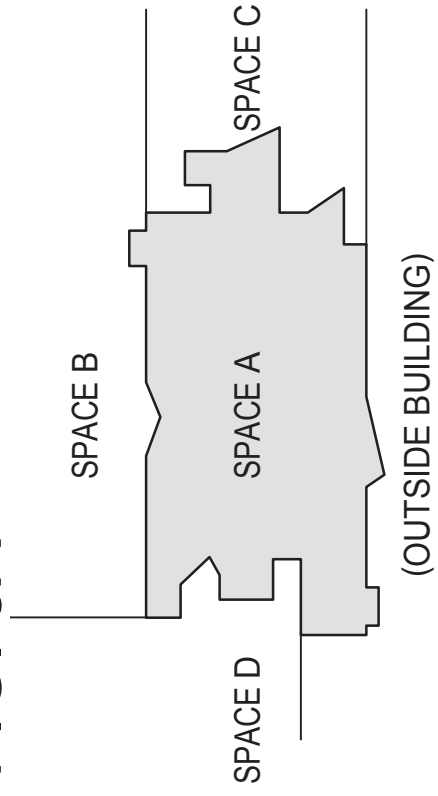


FIG. 5B

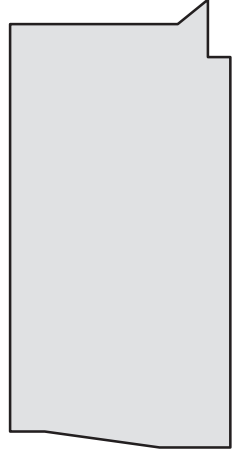


FIG. 5C

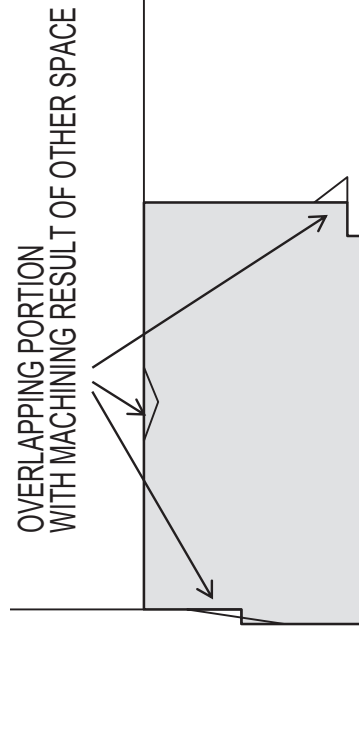
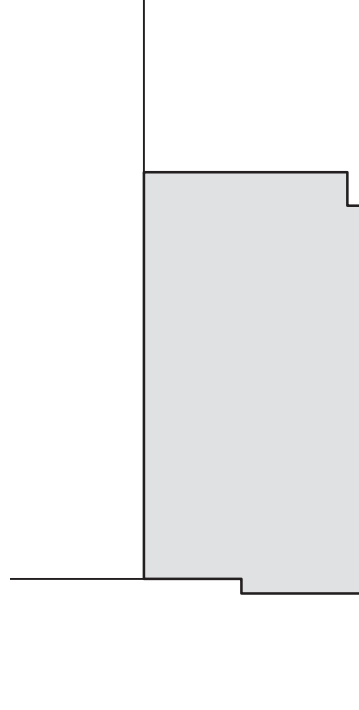


FIG. 5D



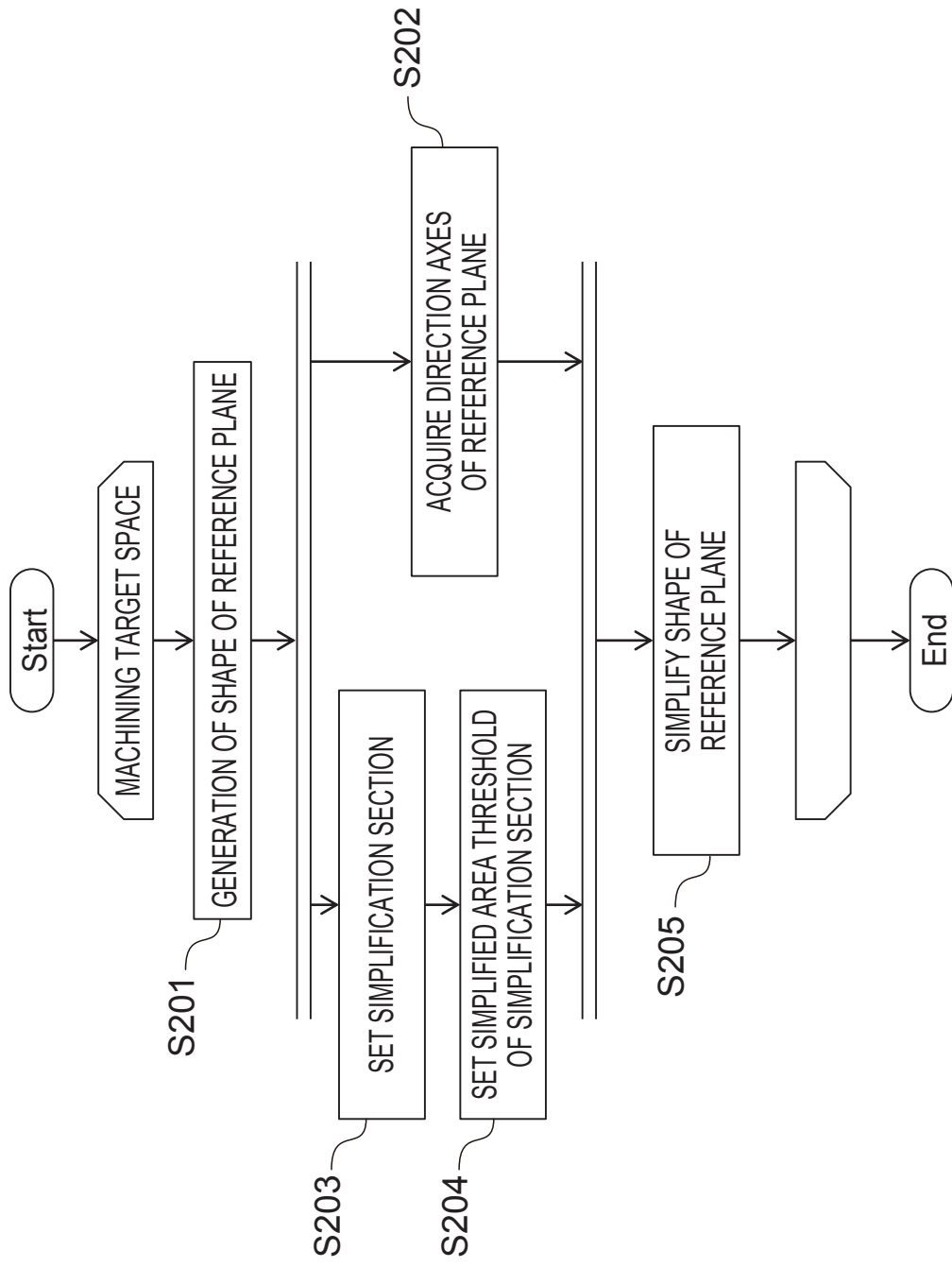


FIG. 6

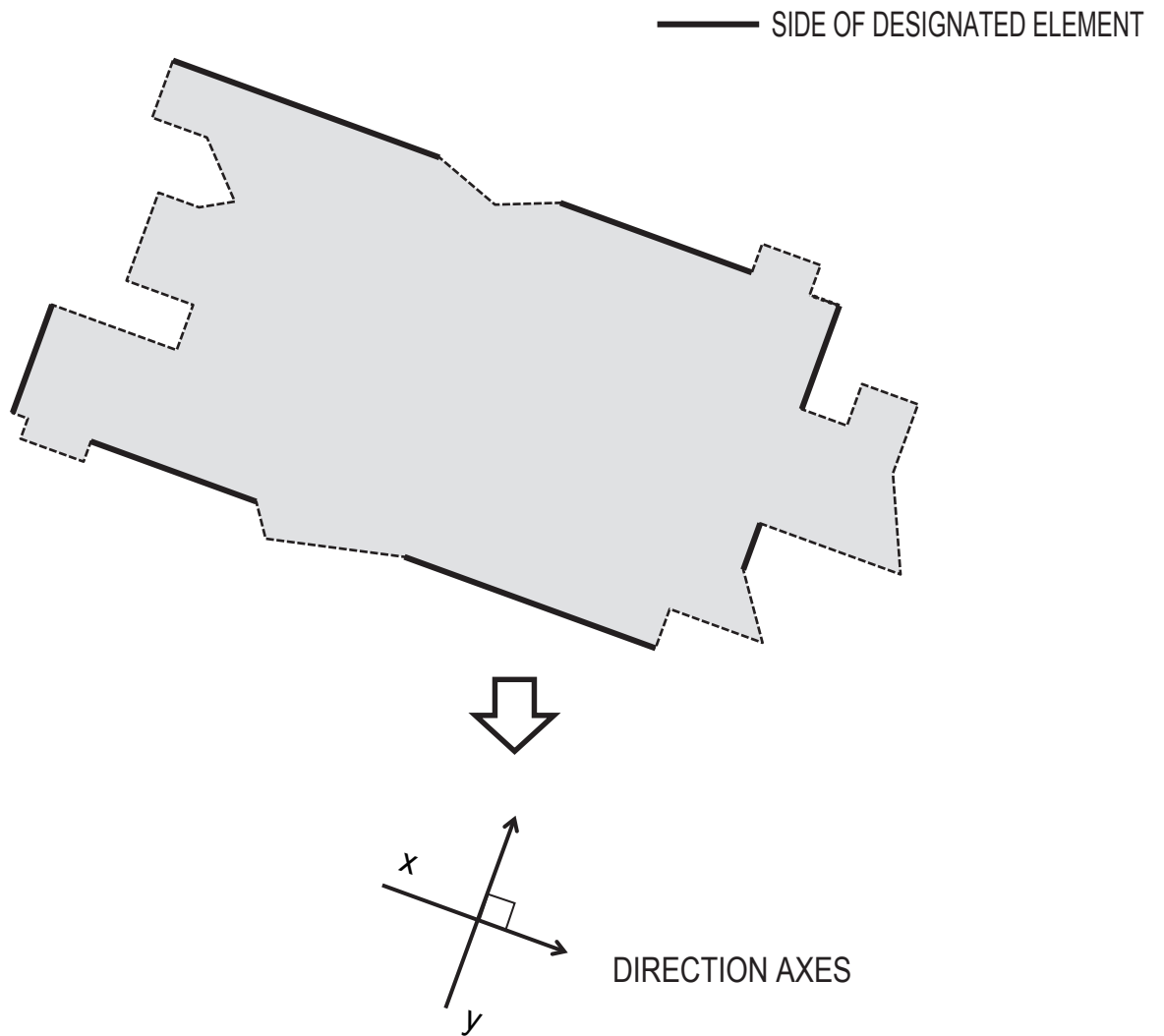
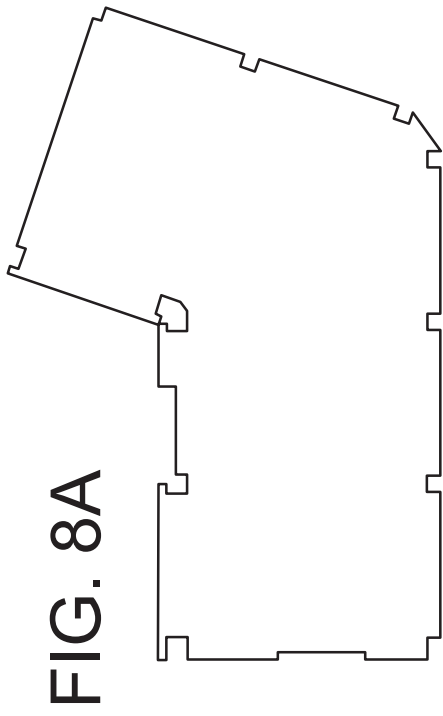
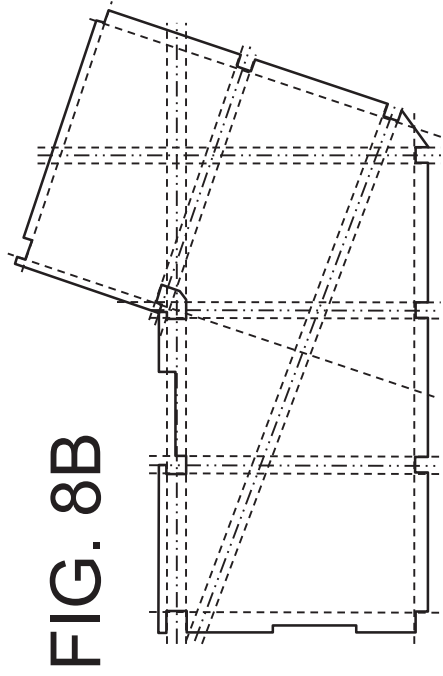
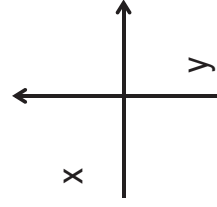
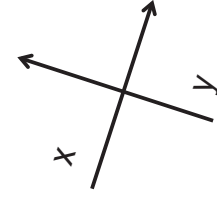


FIG. 7



DIRECTION
AXES



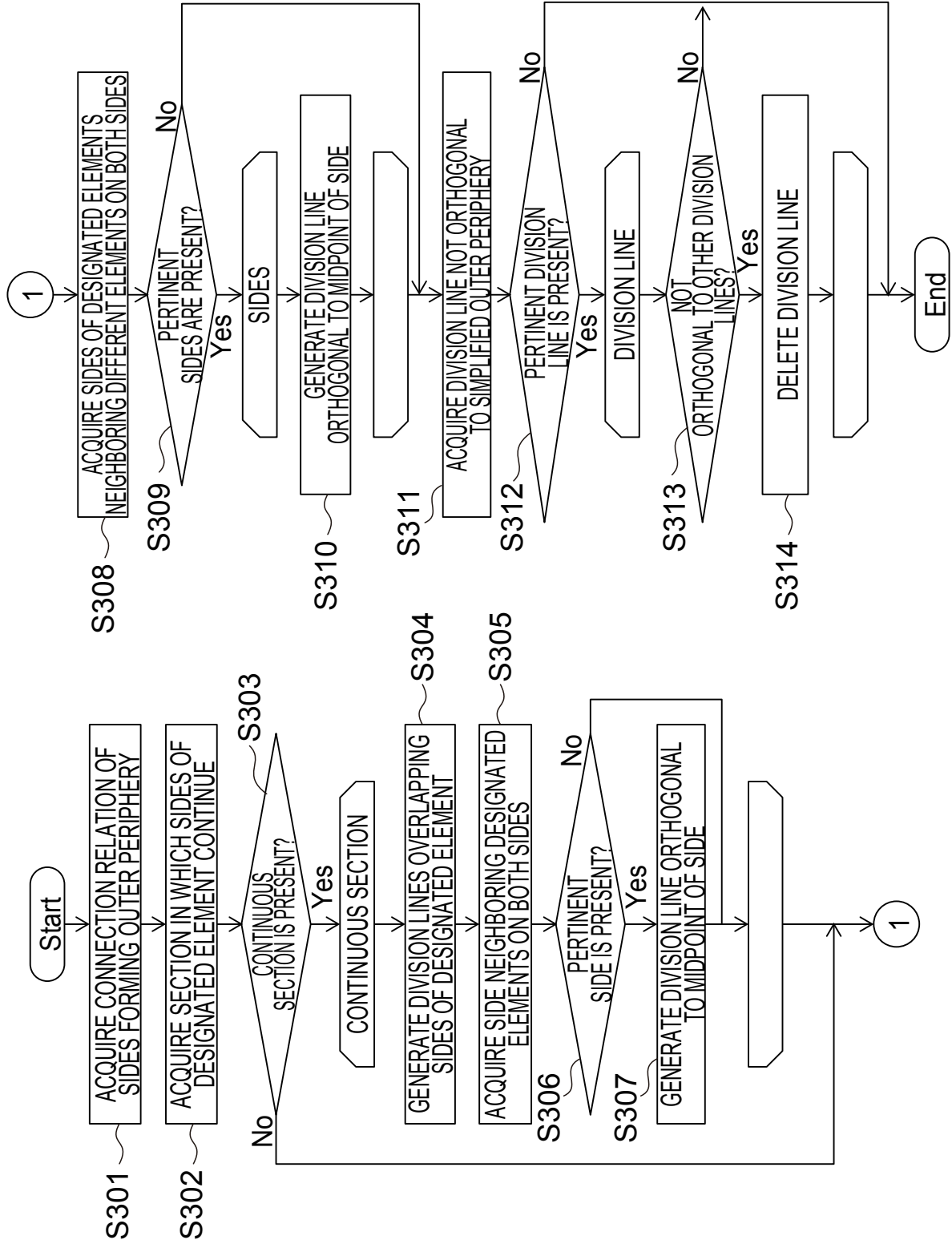


FIG. 9

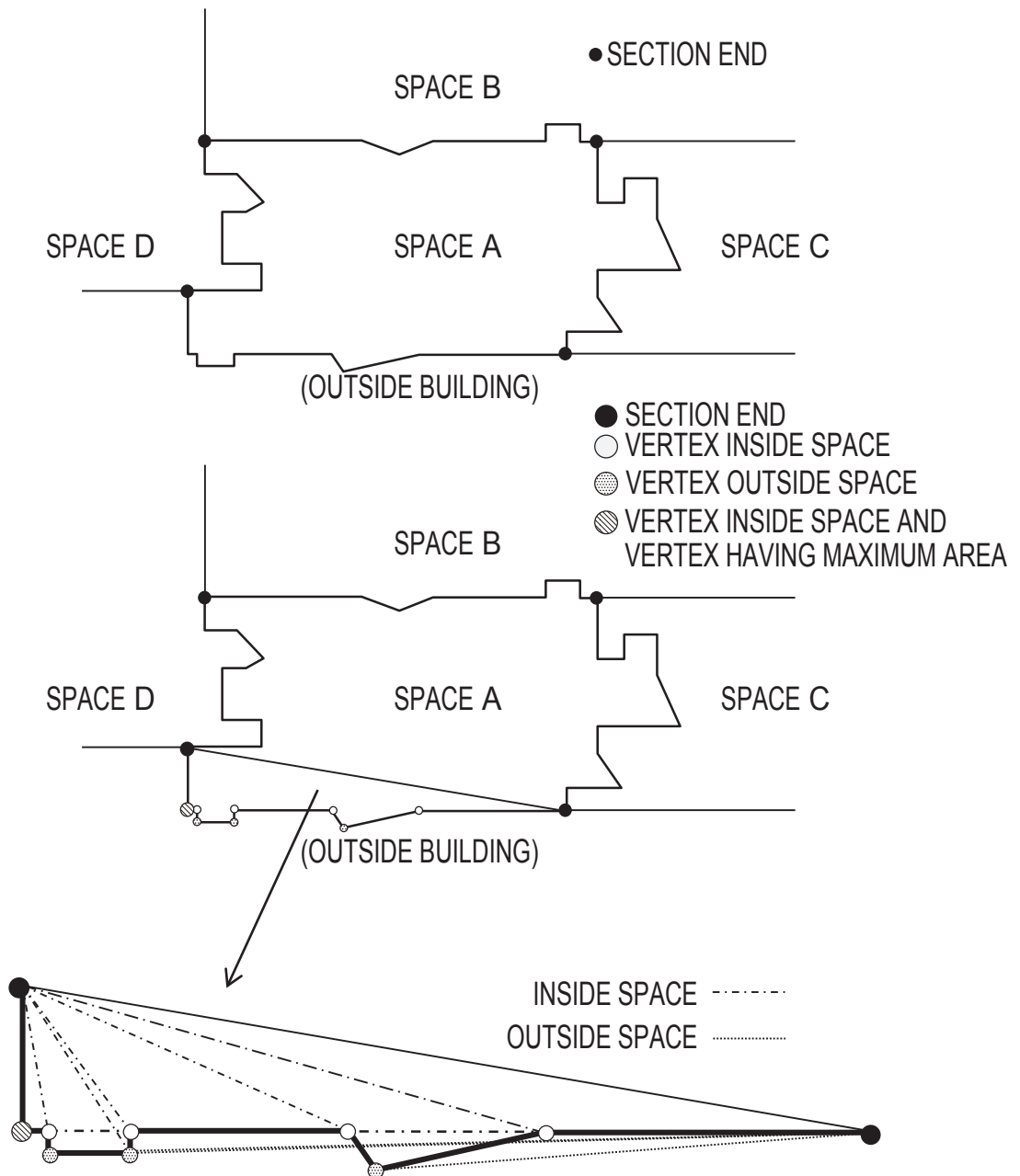


FIG. 10

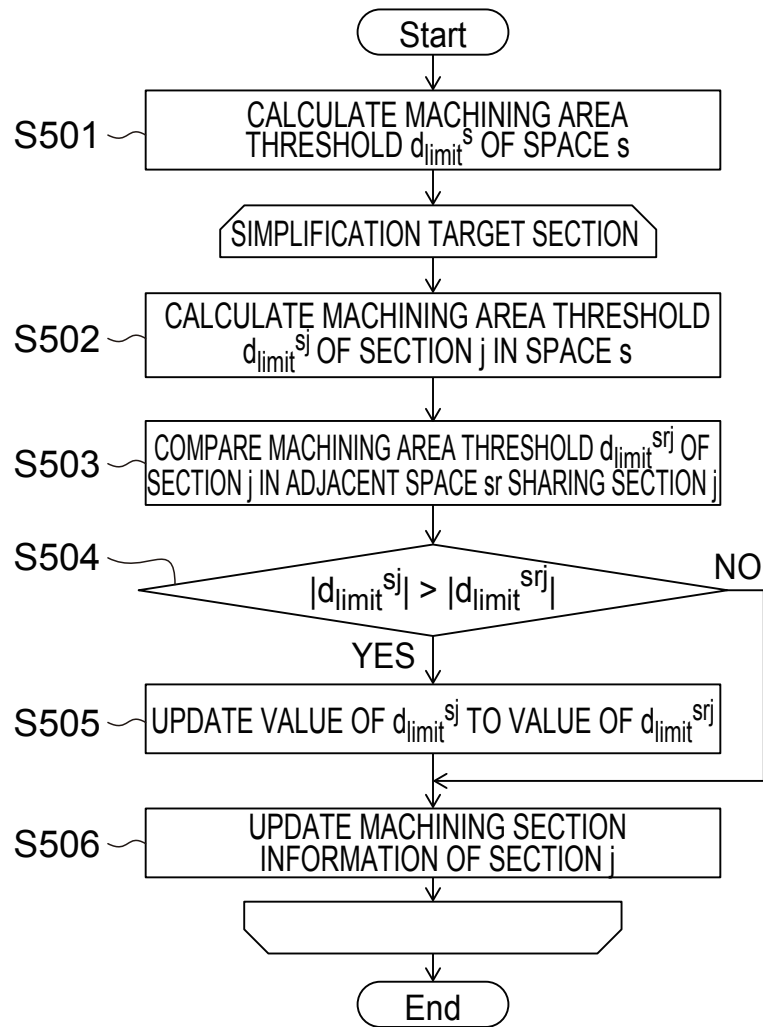


FIG. 11

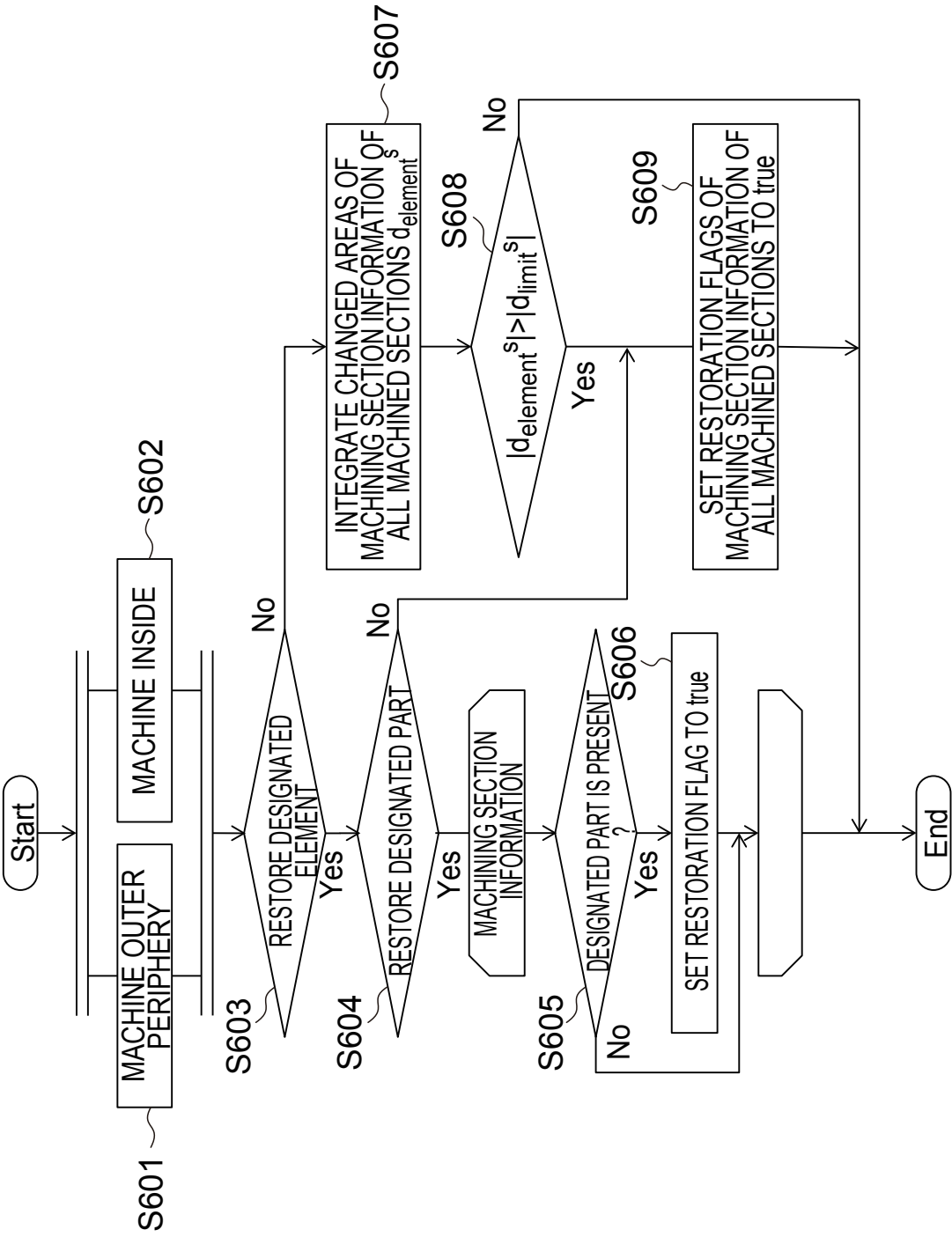


FIG. 12

FIG. 13A

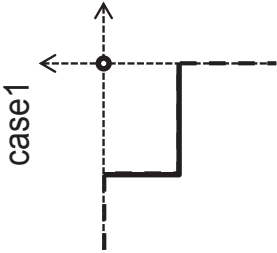
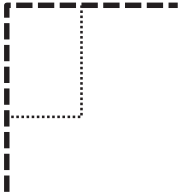


FIG. 13B

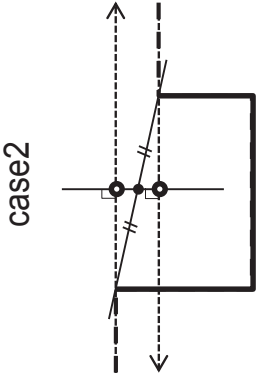
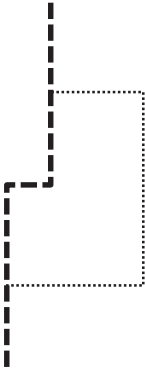


FIG. 13C

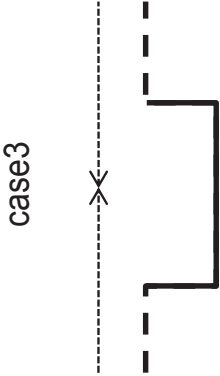
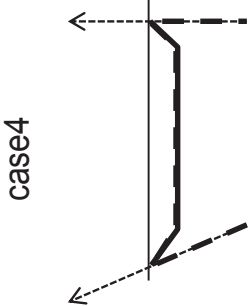
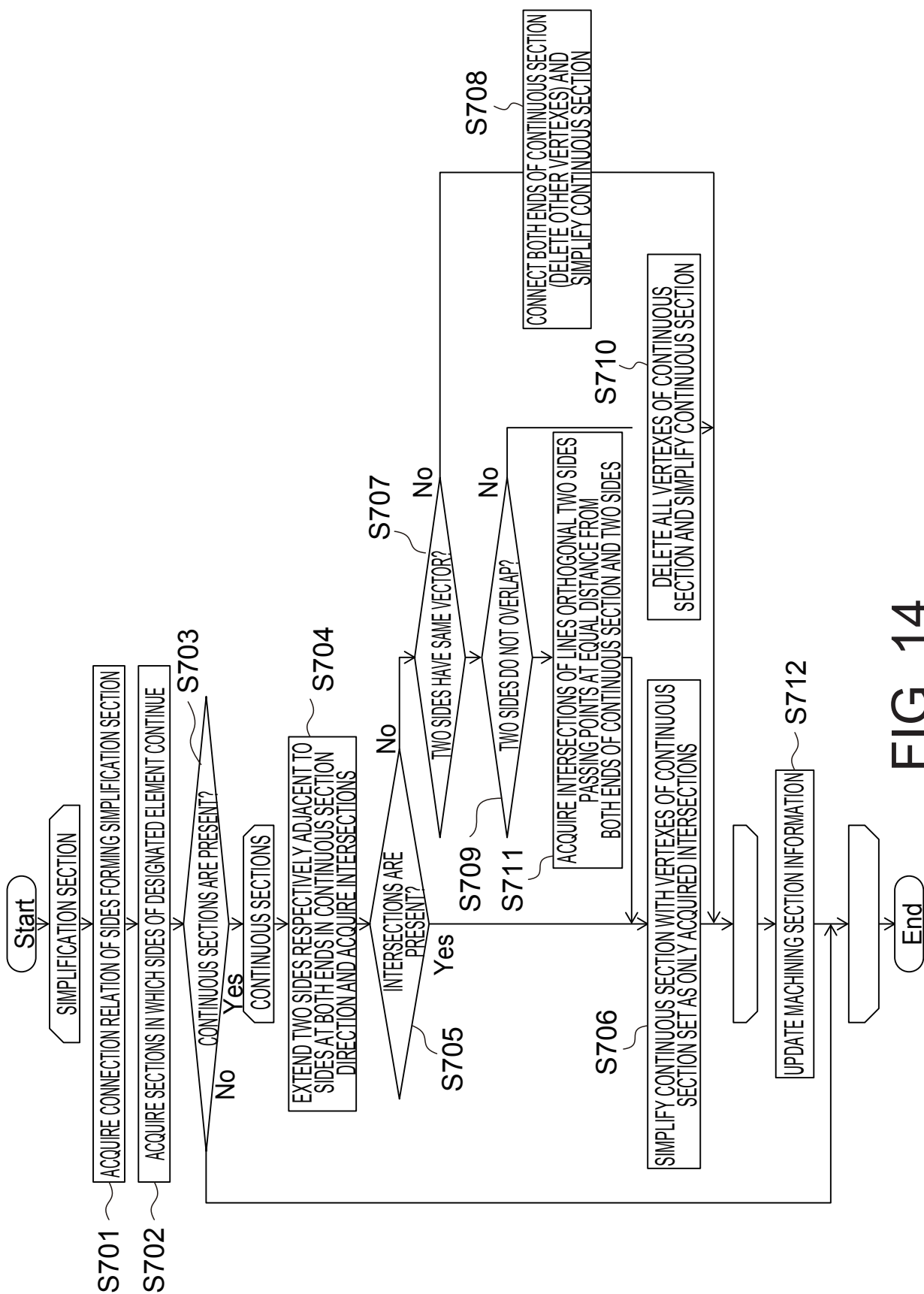


FIG. 13D





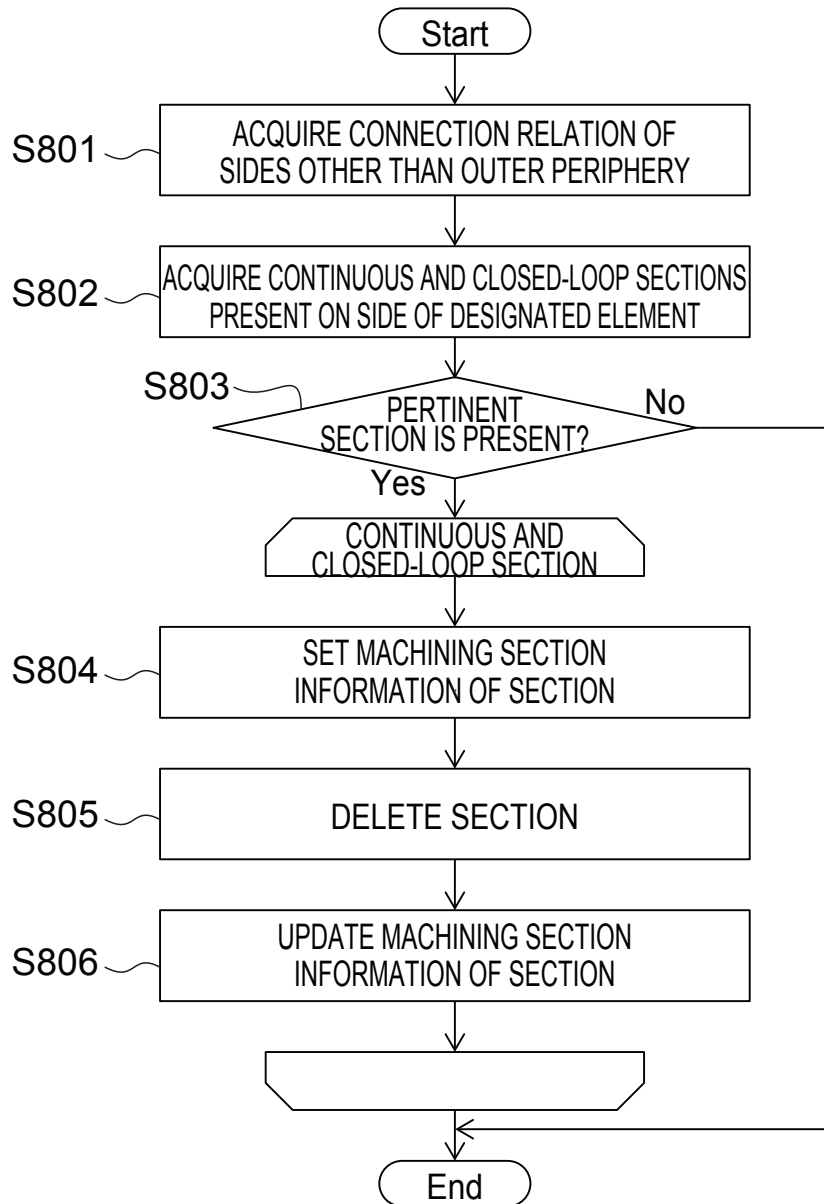


FIG. 15

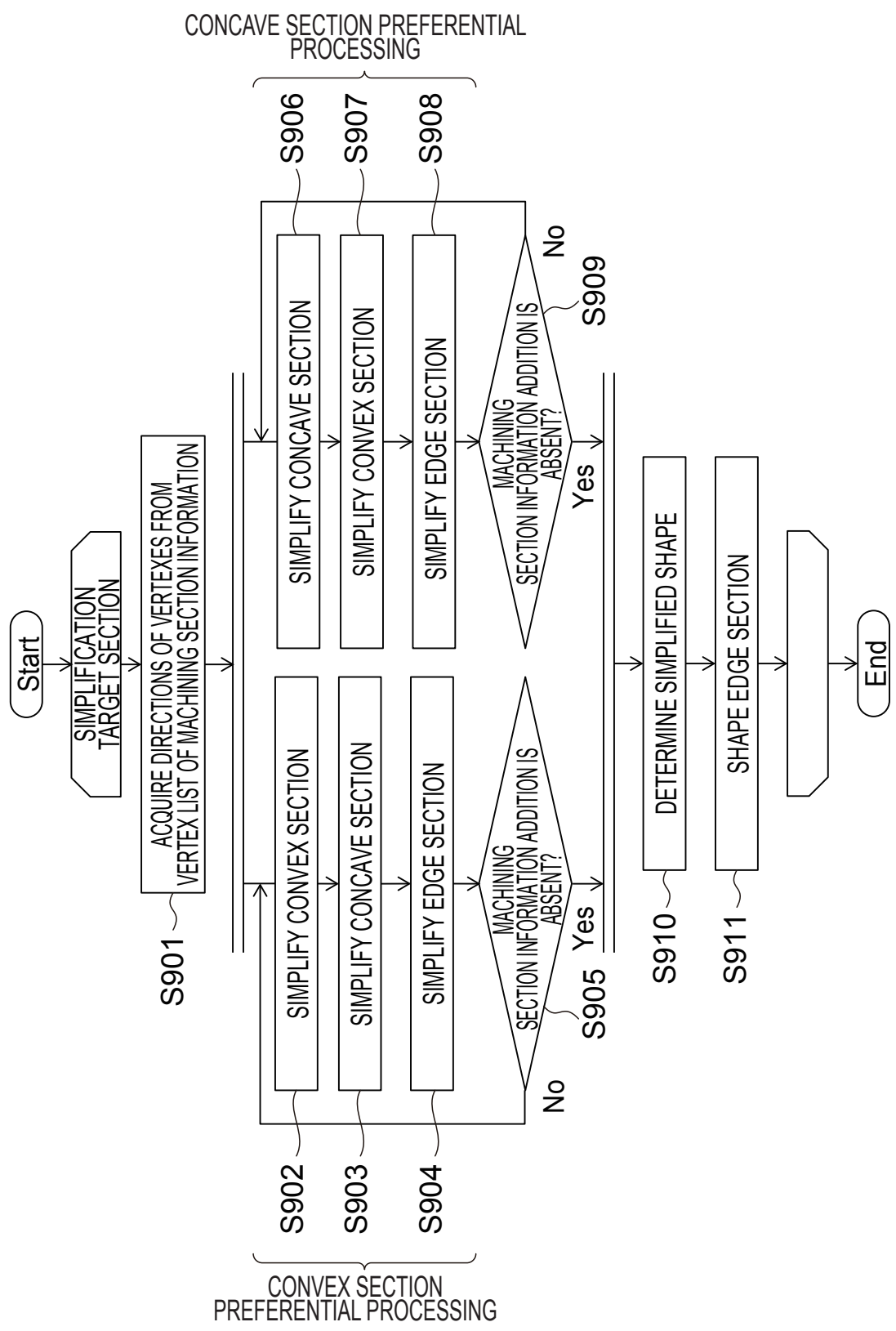


FIG. 16

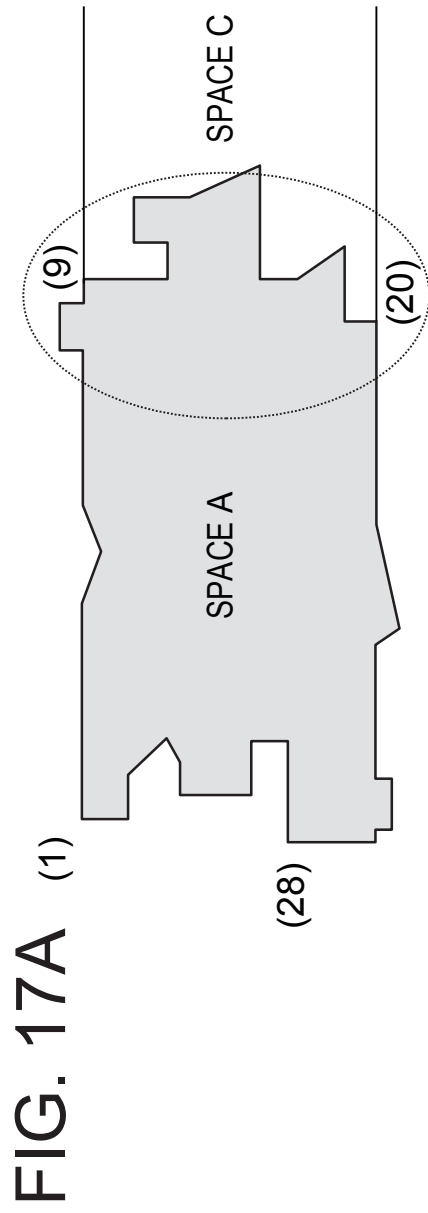


FIG. 17B

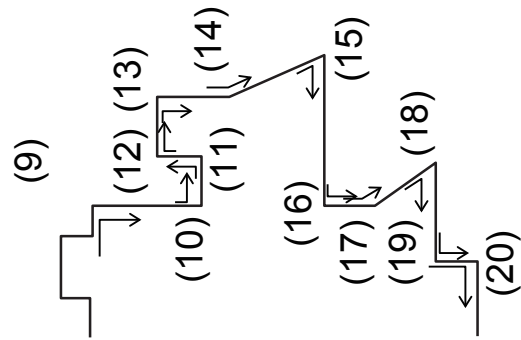


FIG. 17C

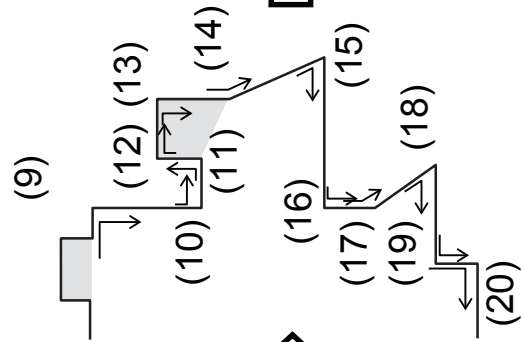


FIG. 17D

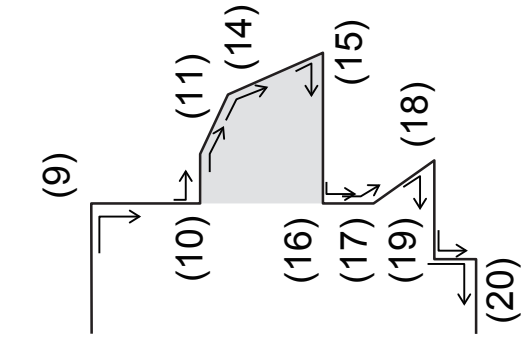
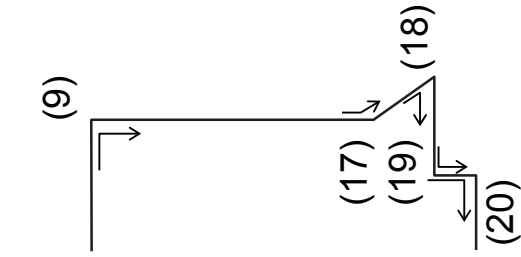


FIG. 17E



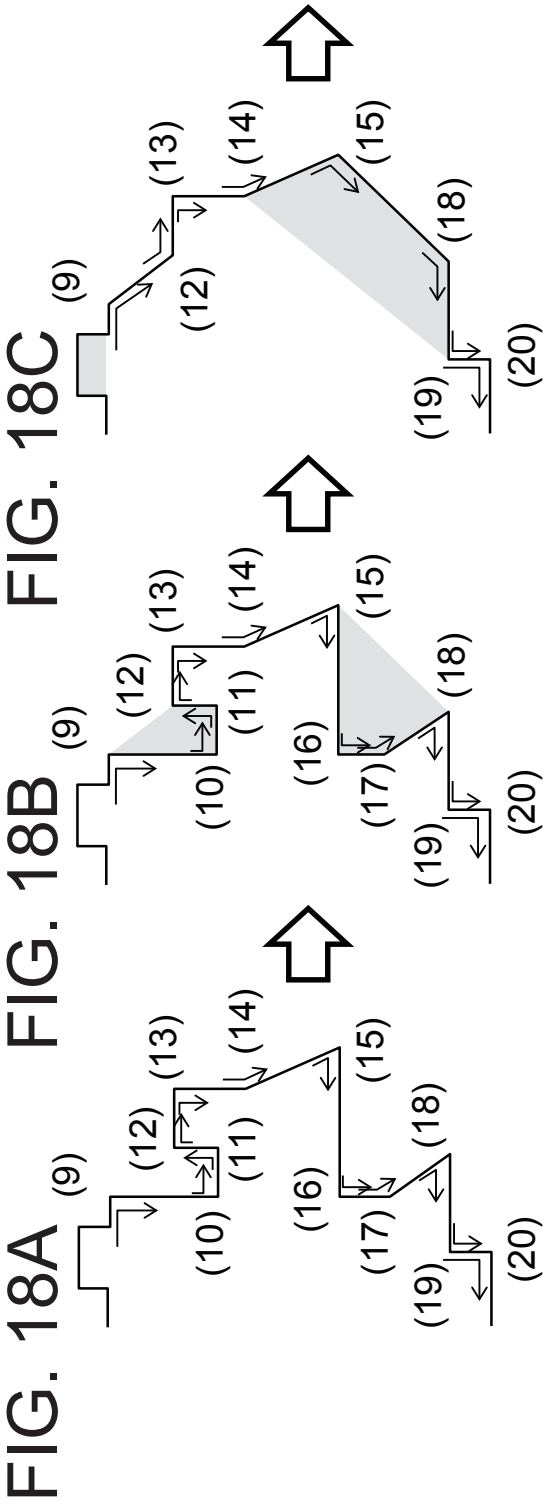
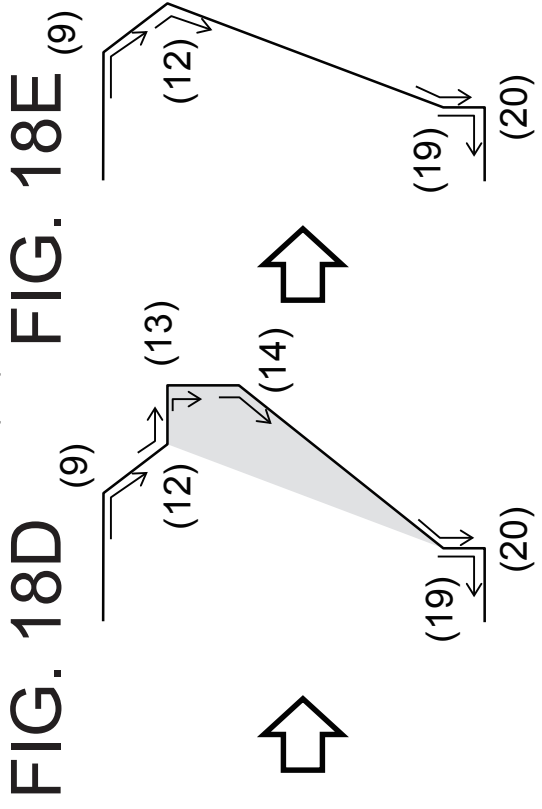


FIG. 19A case1

FIG. 19B case2

FIG. 19C case3

FIG. 19D case4

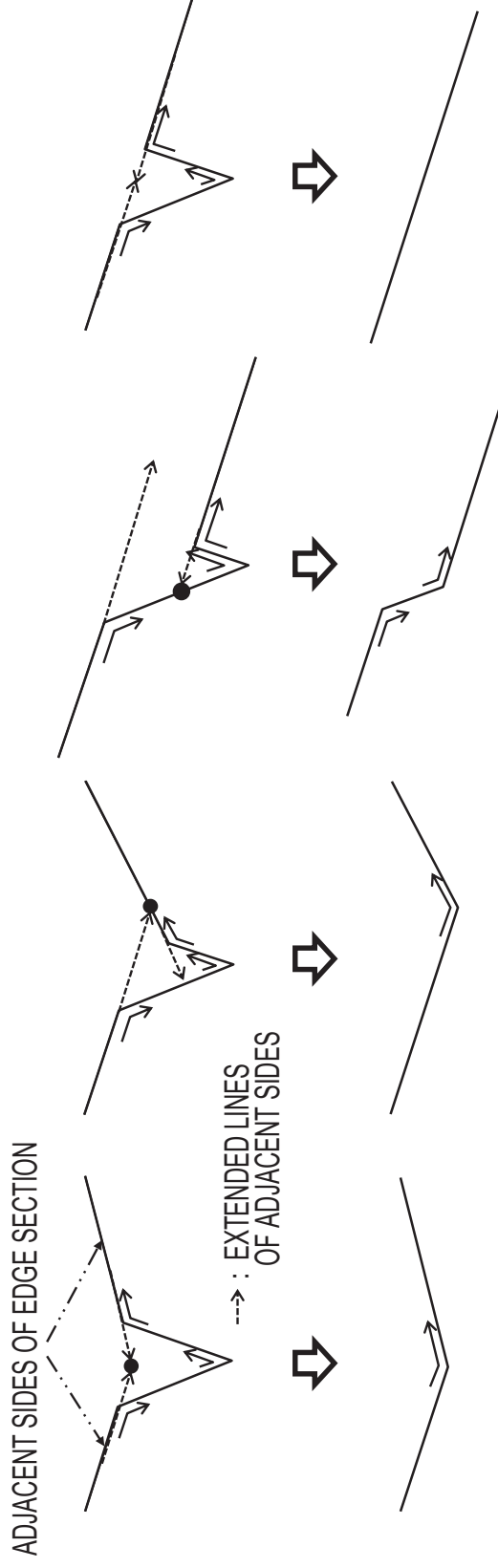


FIG. 19E

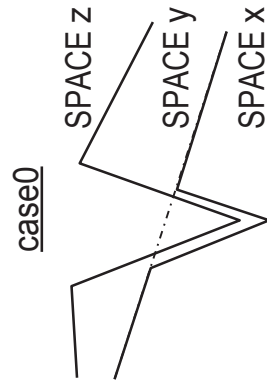


FIG. 20A

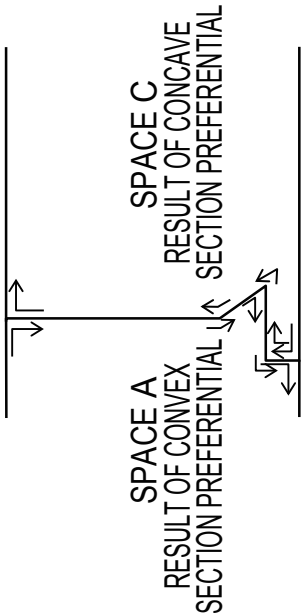


FIG. 20B

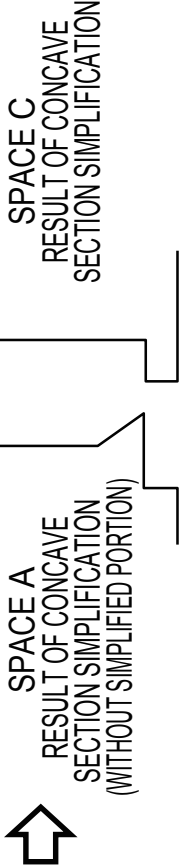


FIG. 20C

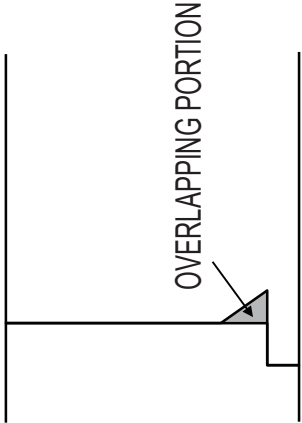
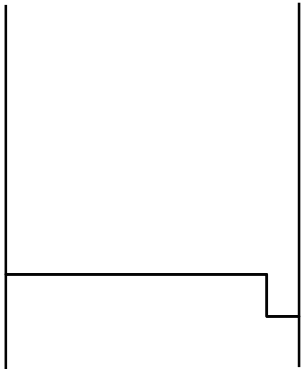


FIG. 20D



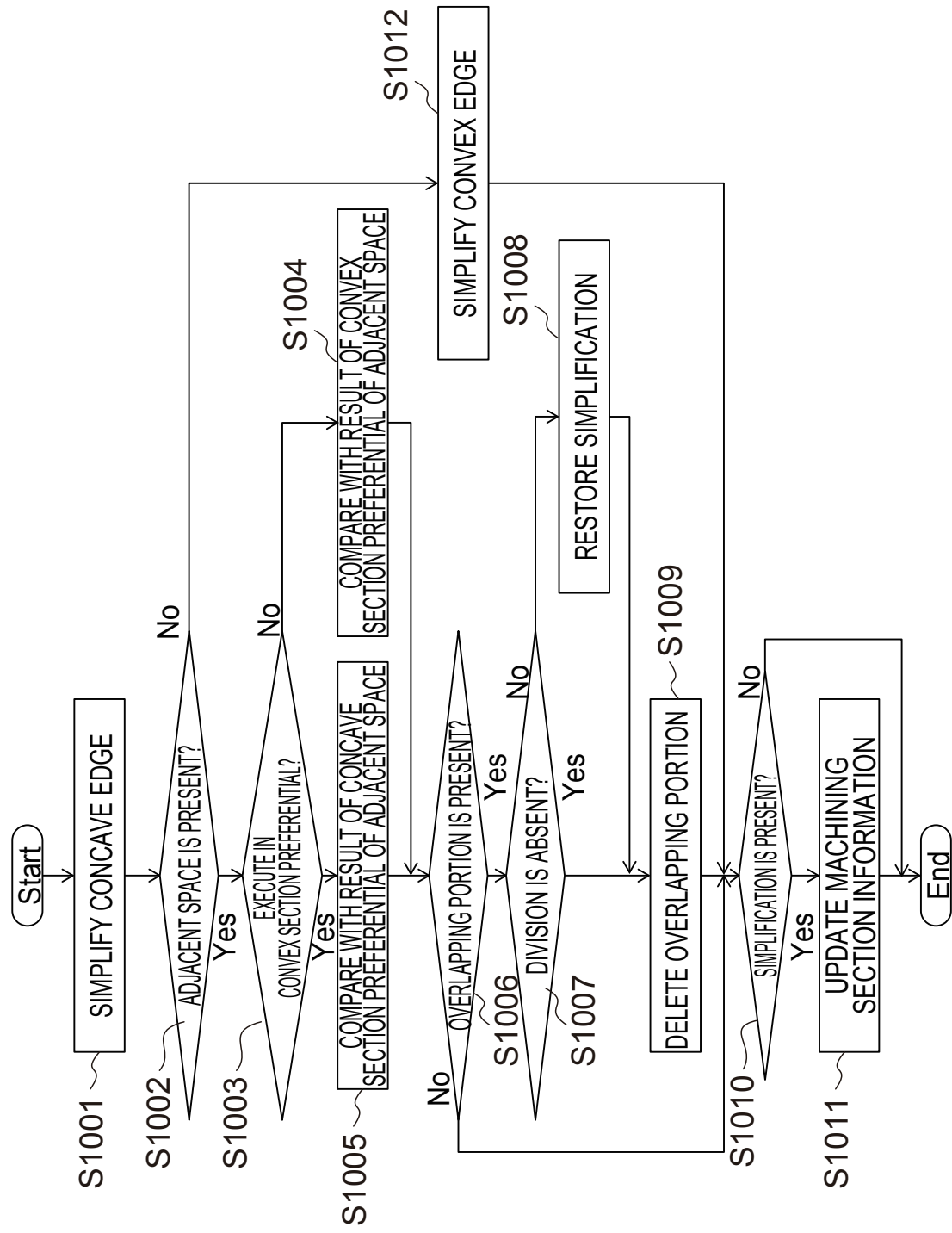


FIG. 21

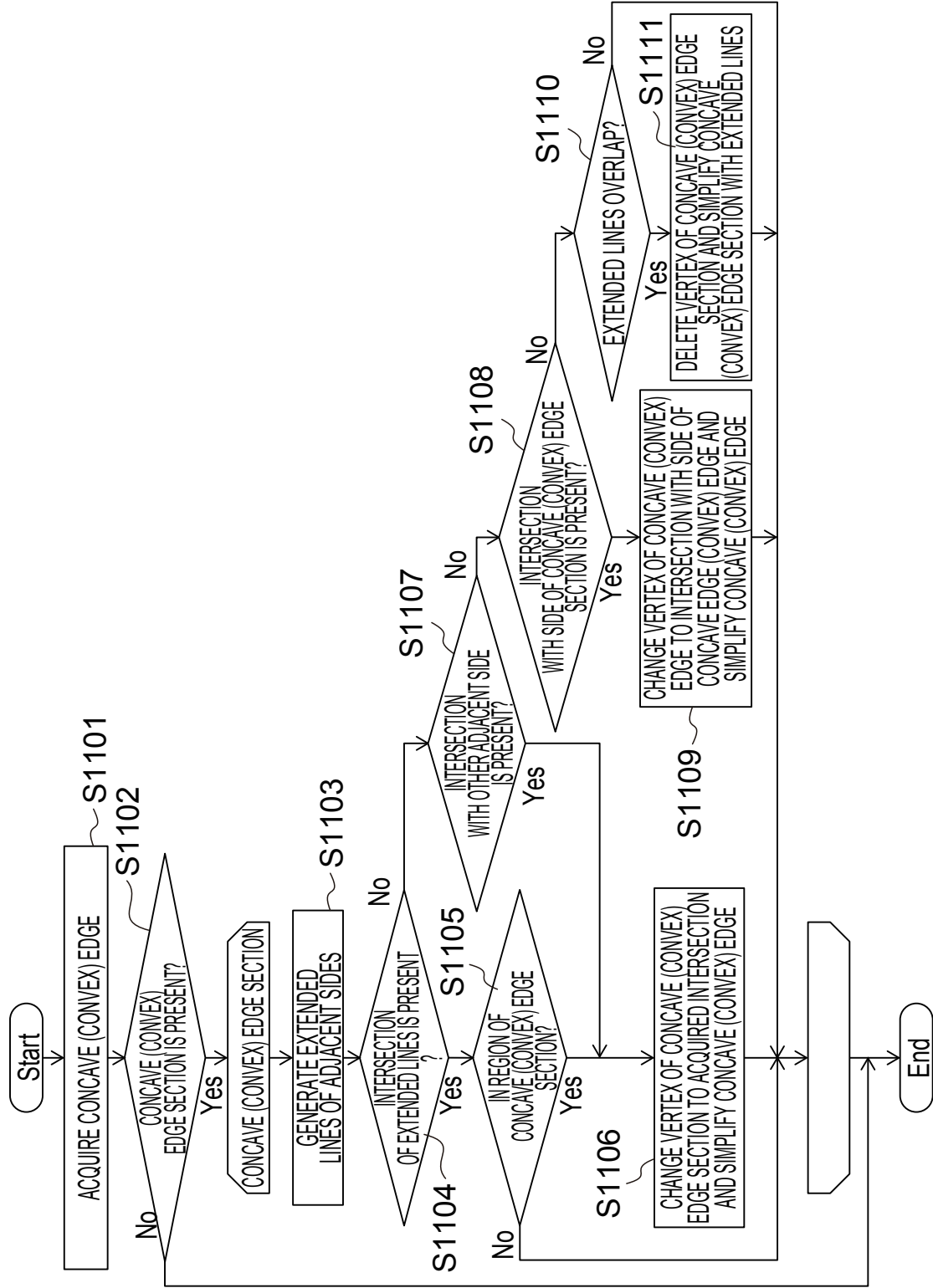


FIG. 22

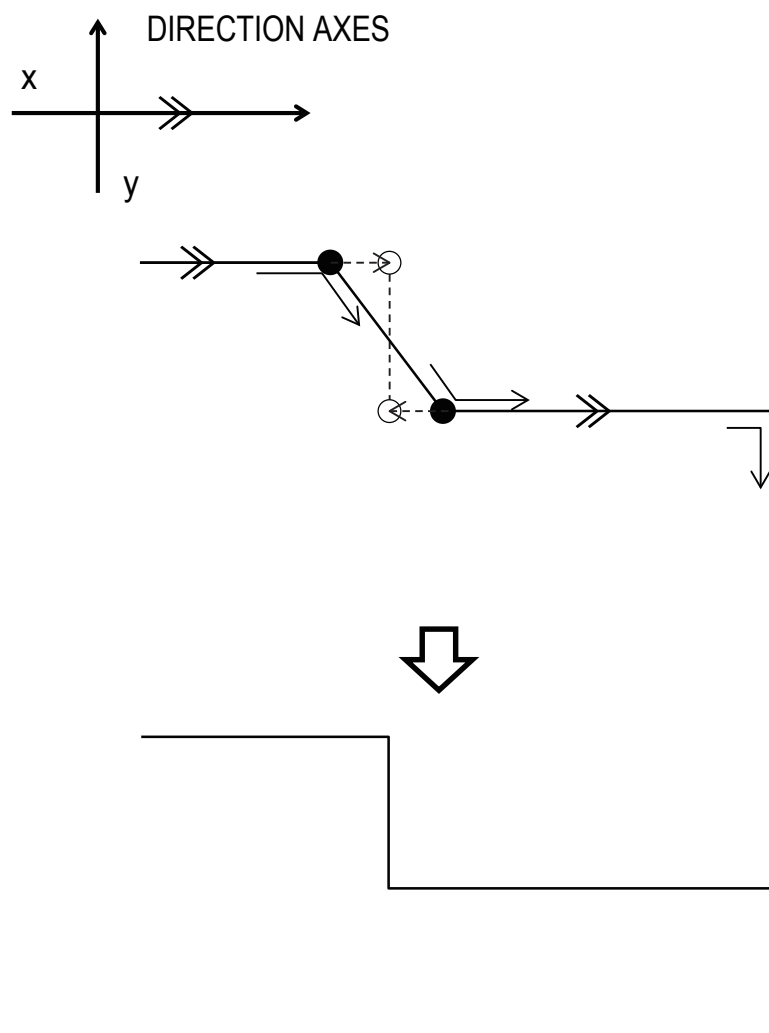


FIG. 23

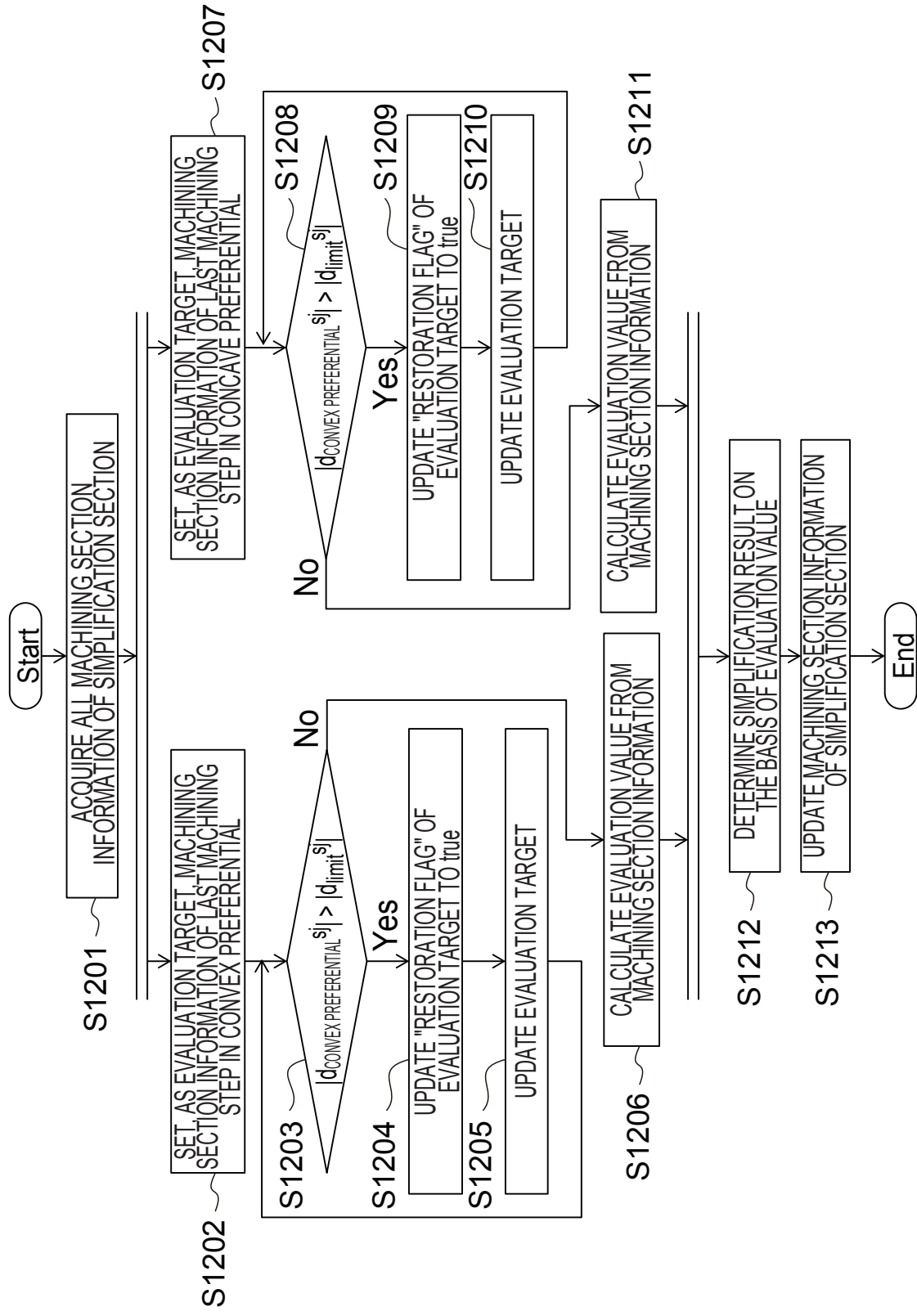


FIG. 24

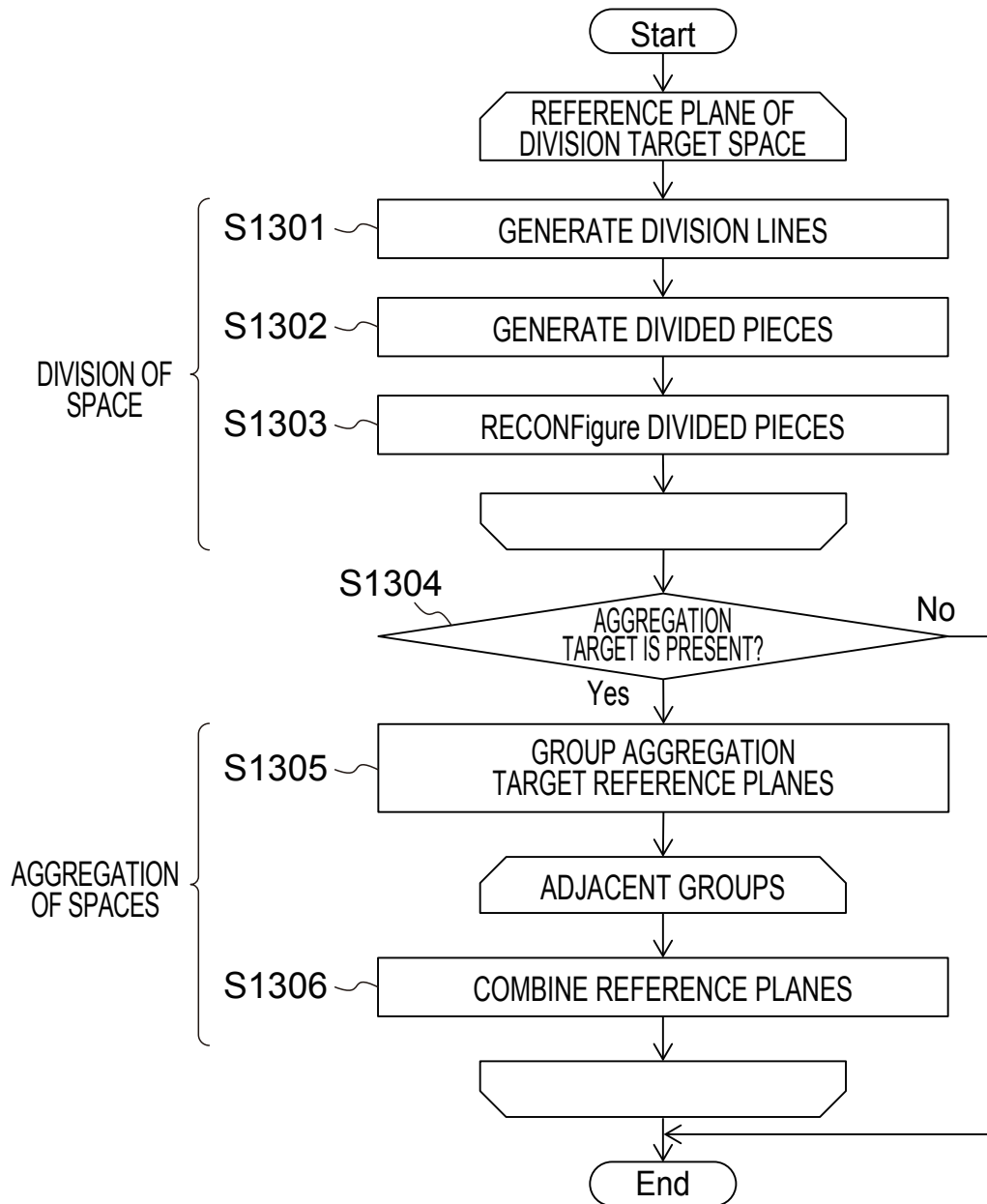


FIG. 25

FIG. 26A

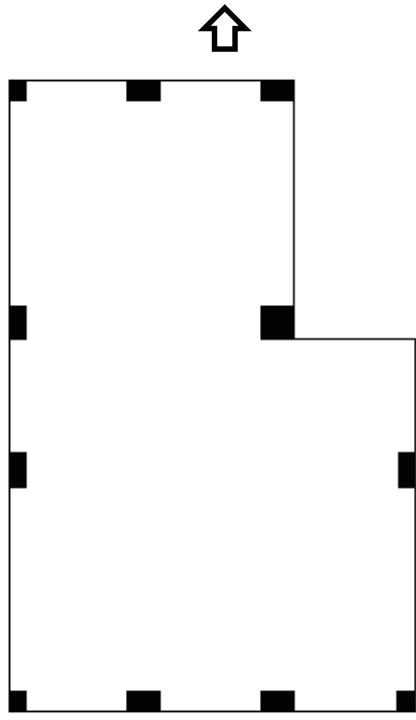


FIG. 26B

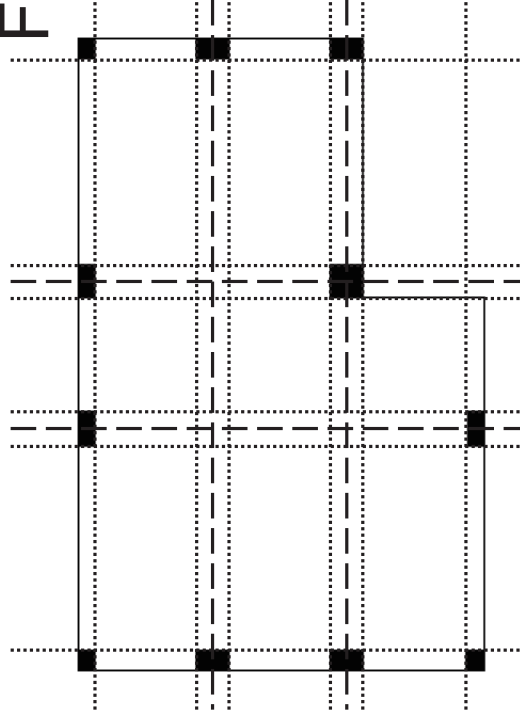
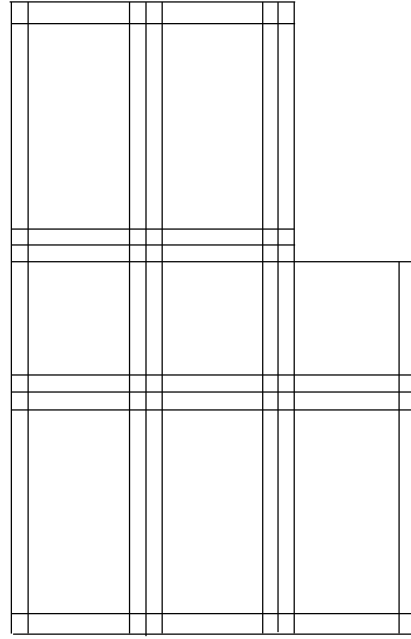


FIG. 26C

FIG. 27A

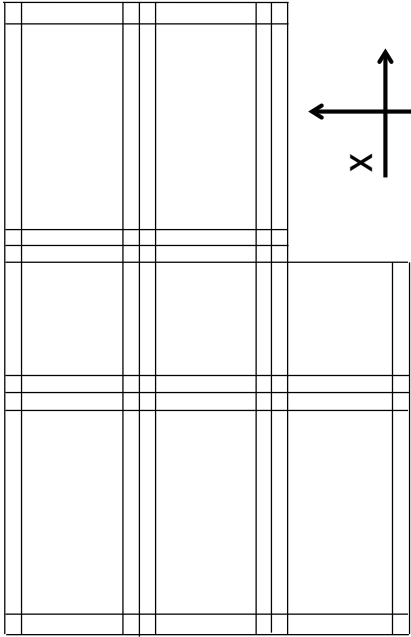


FIG. 27B

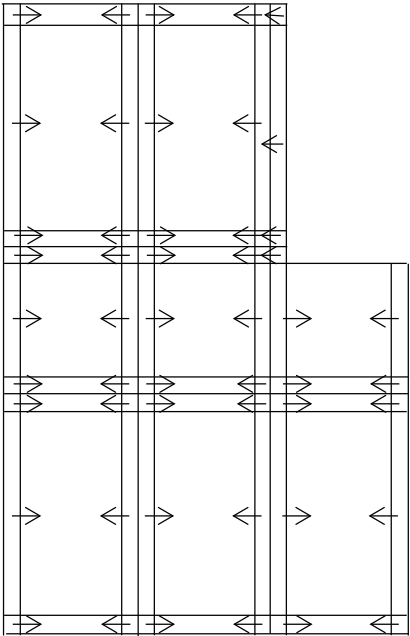


FIG. 27C

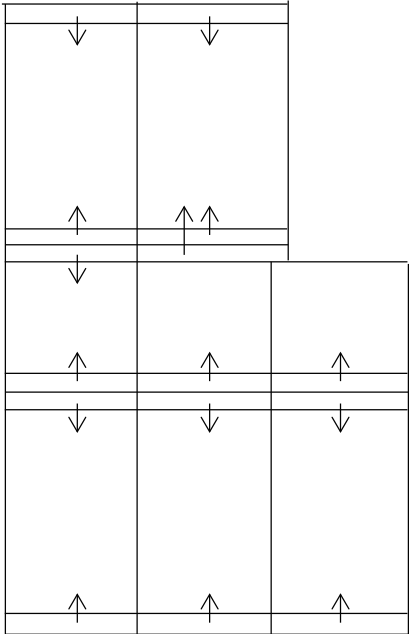
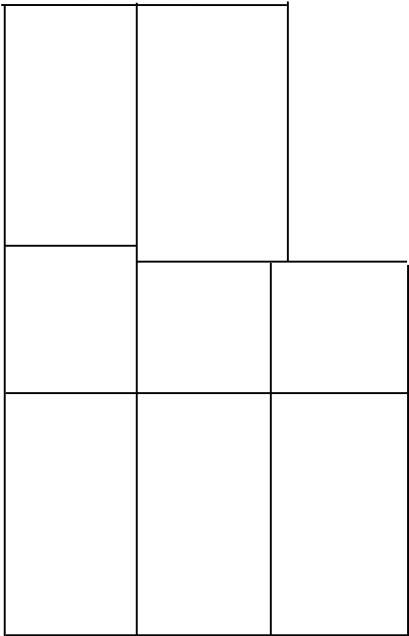
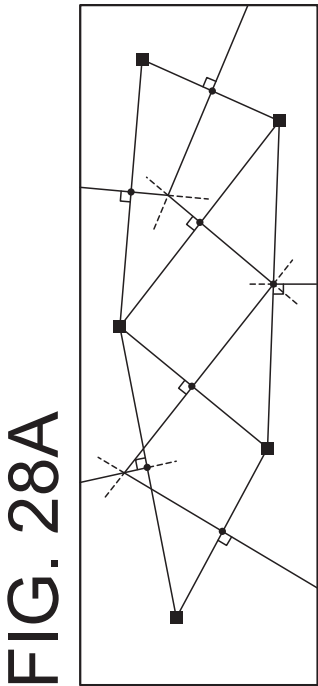
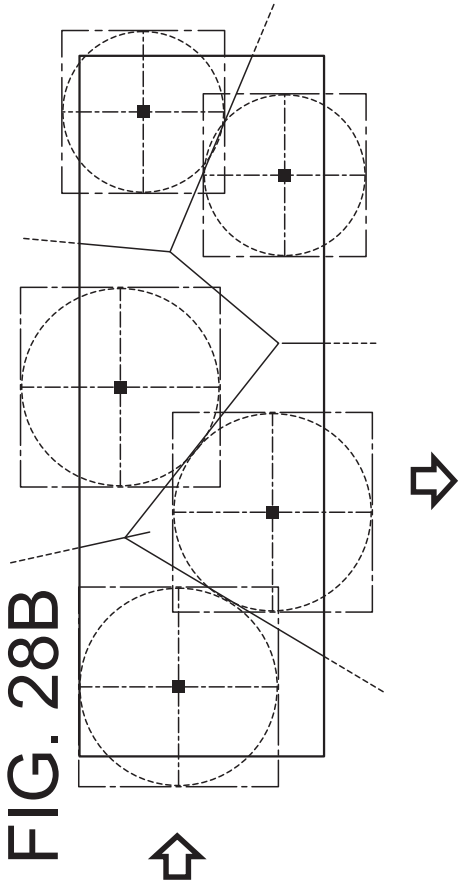
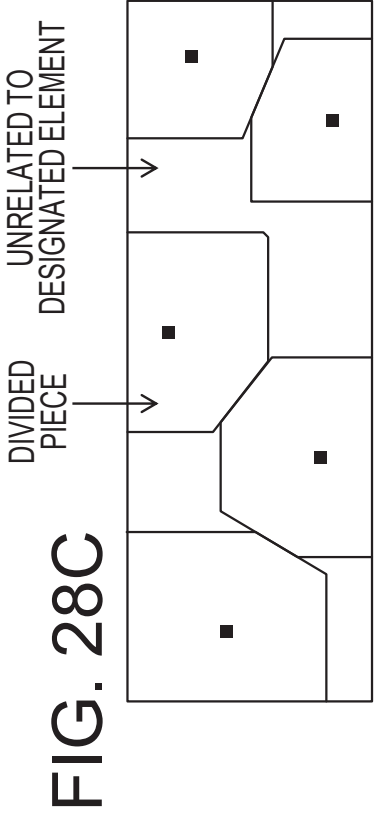


FIG. 27D





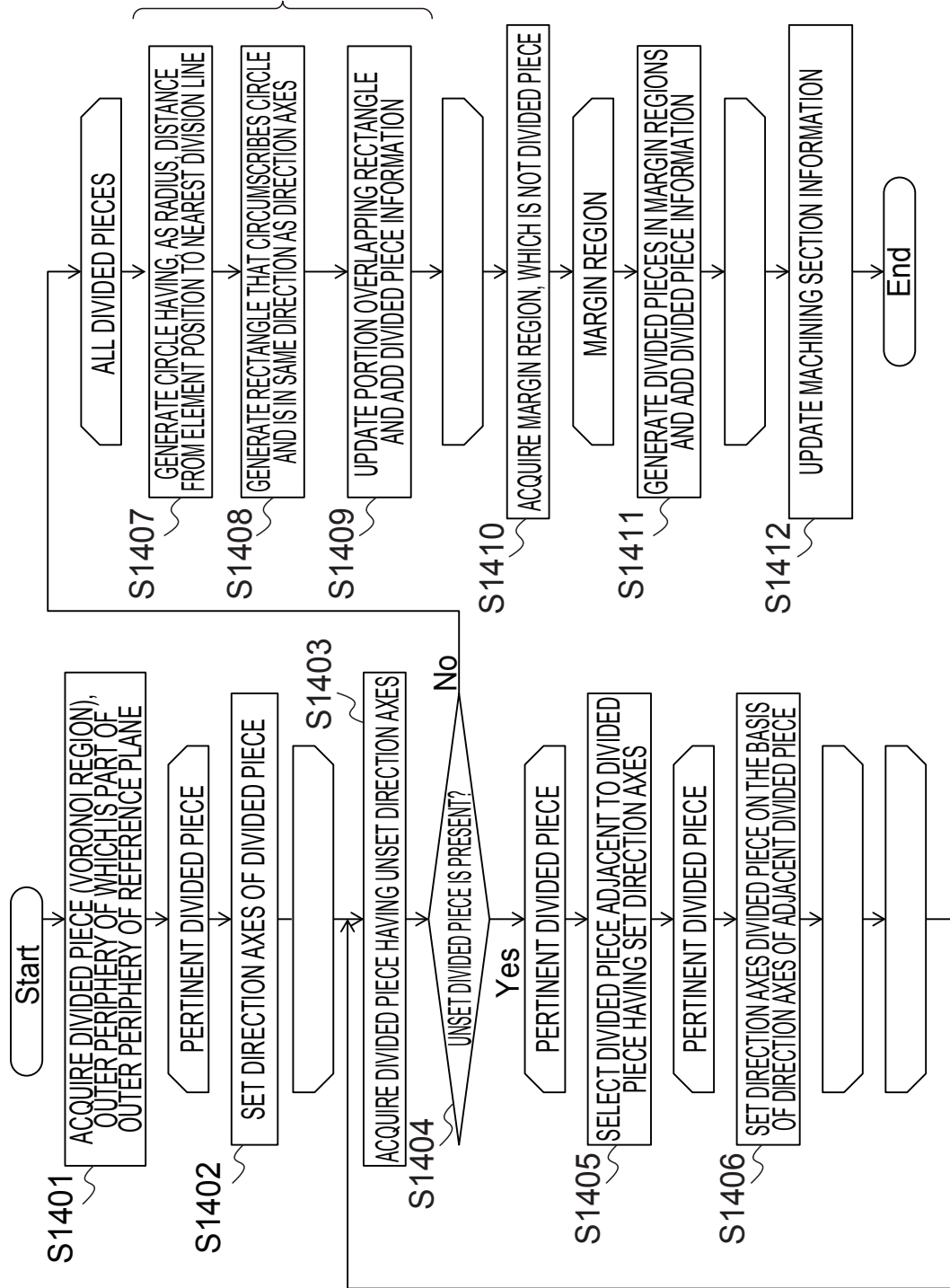


FIG. 29

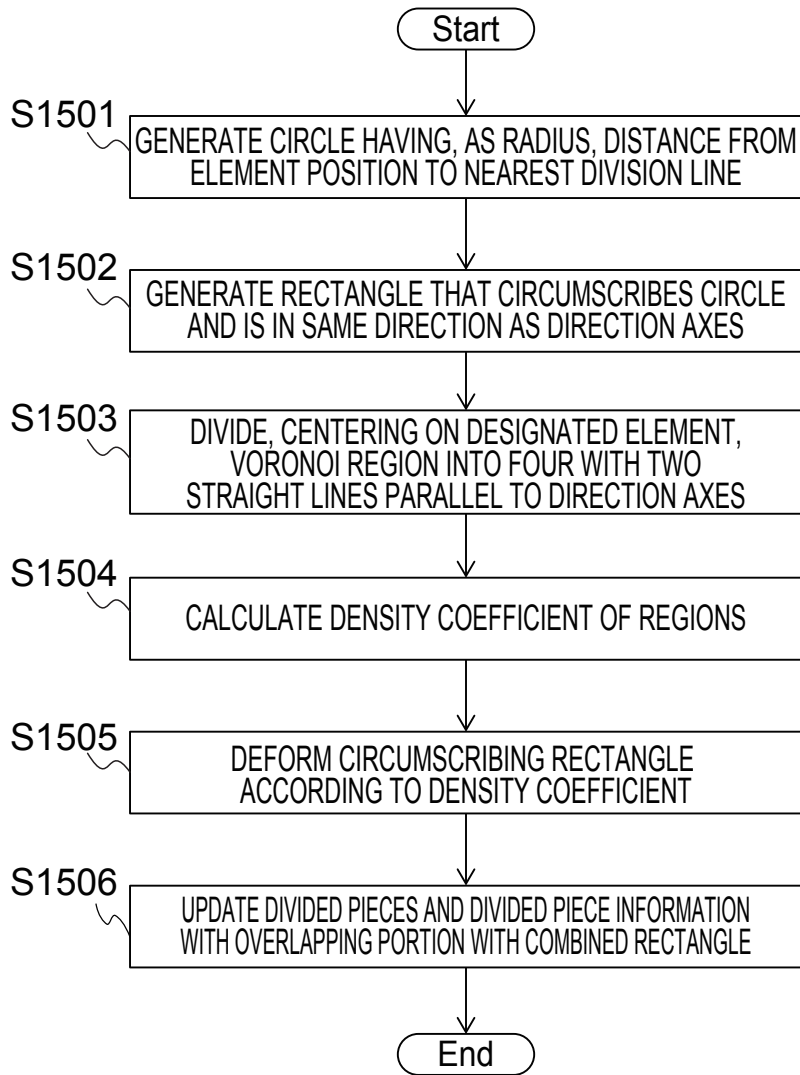


FIG. 30

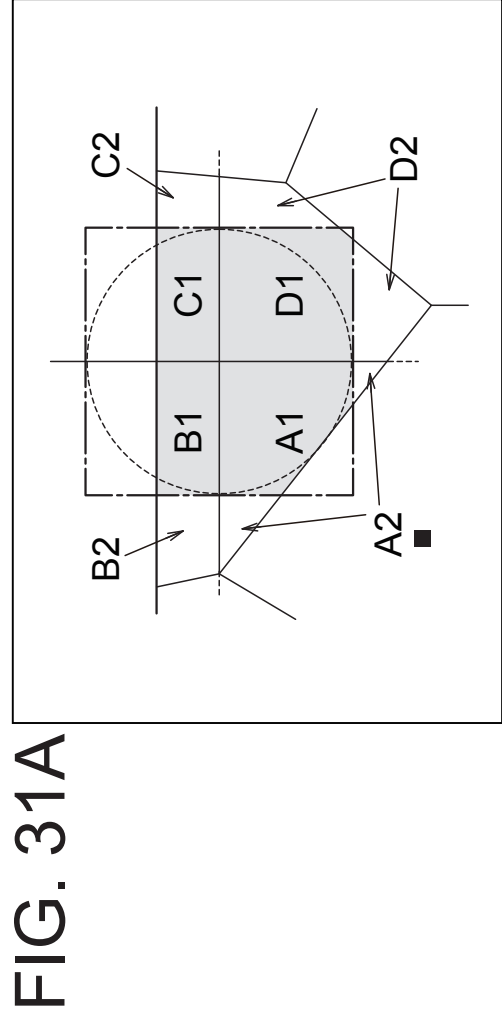


FIG. 31B

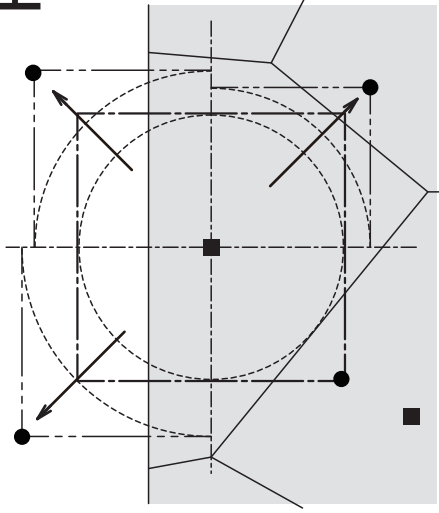
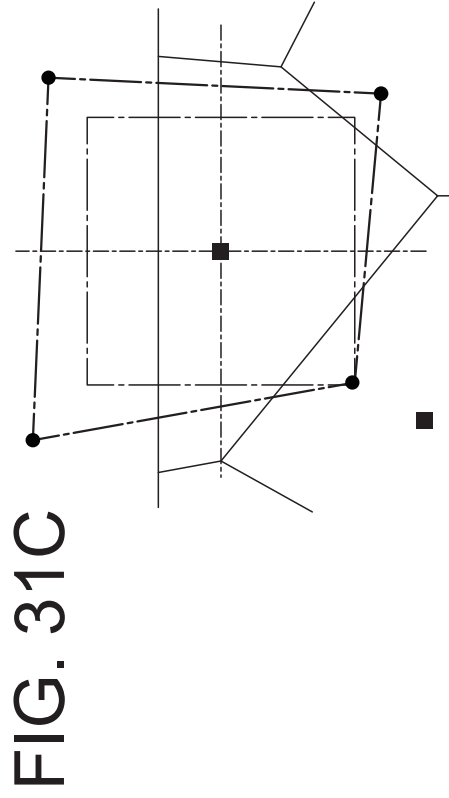


FIG. 31D

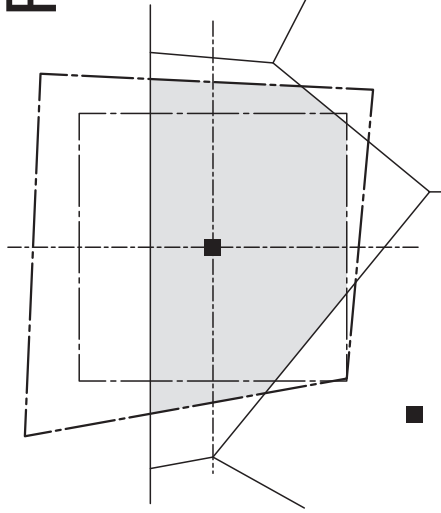


FIG. 32B

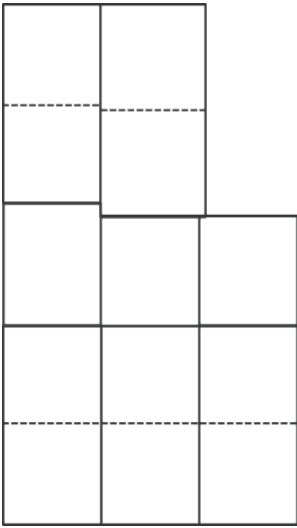
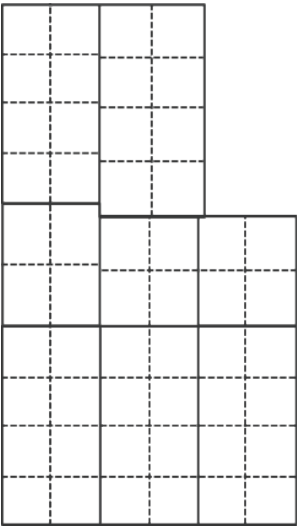
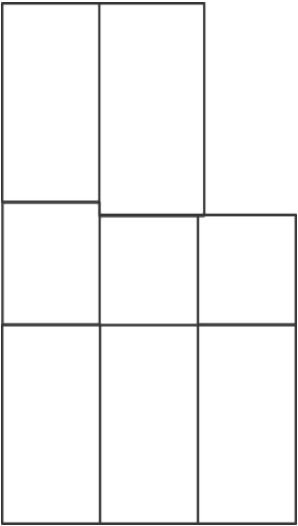


FIG. 32C



DIVISION UNIT

FIG. 32A



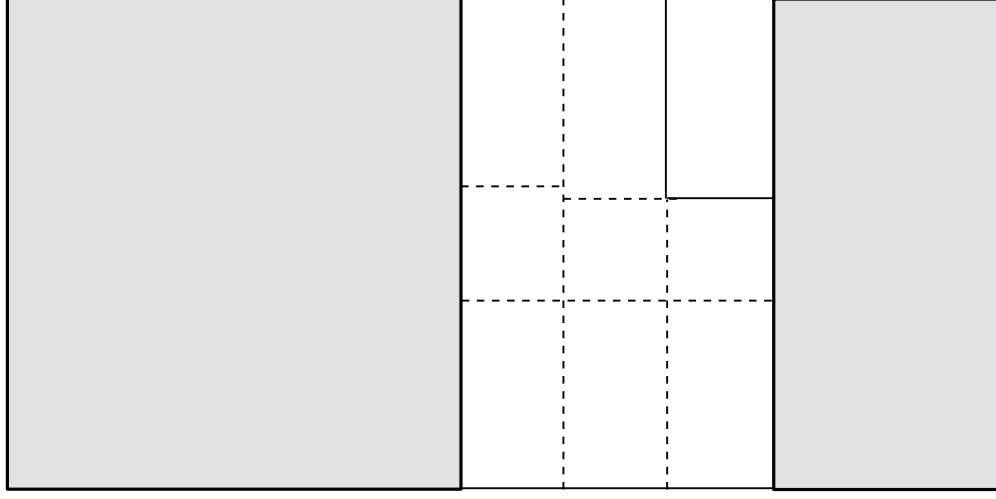


FIG. 33B

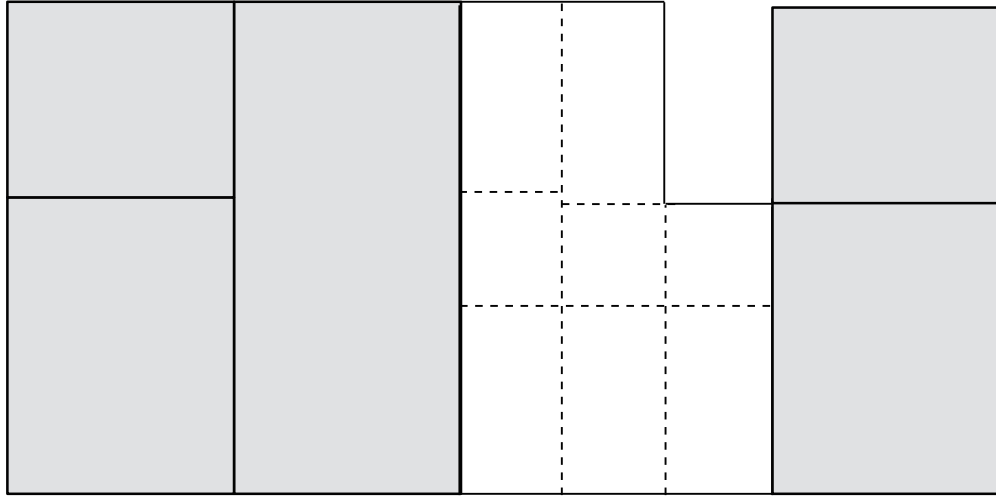


FIG. 33A

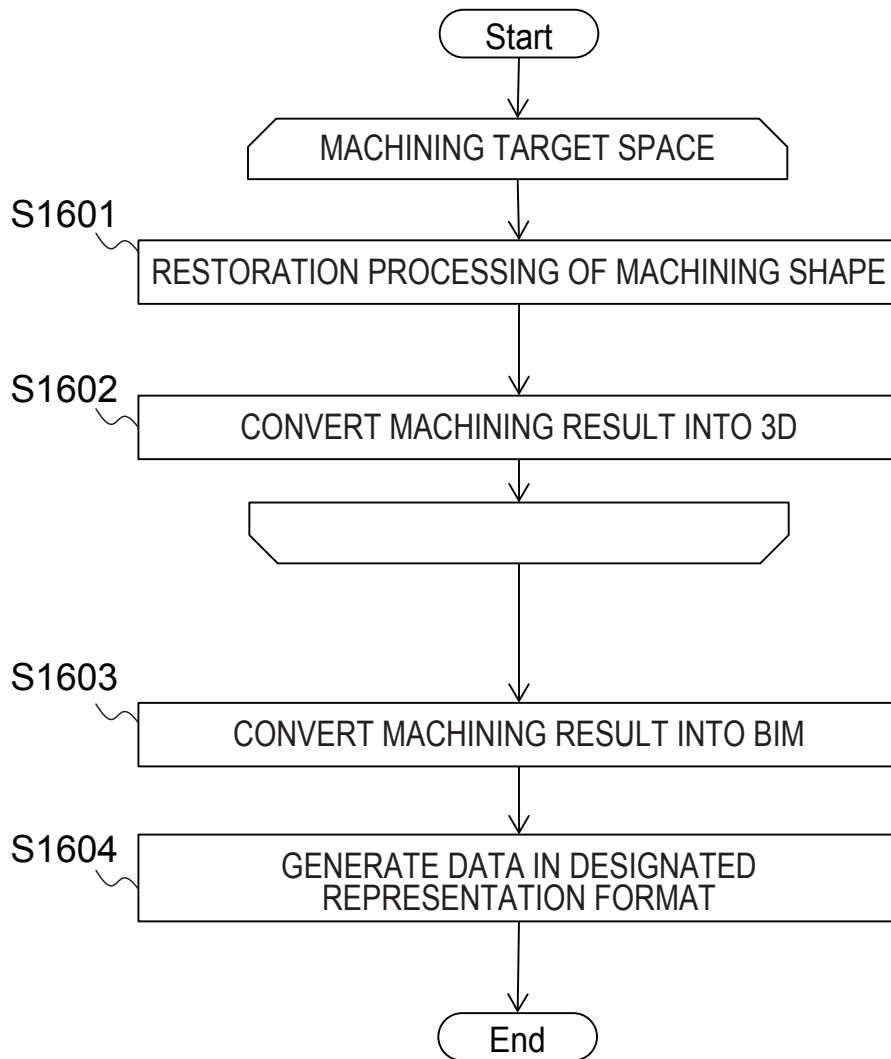


FIG. 34

FIG. 35B

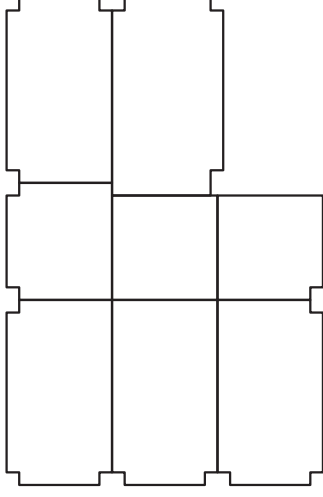


FIG. 35C

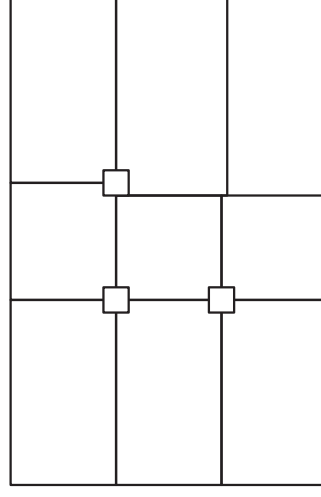
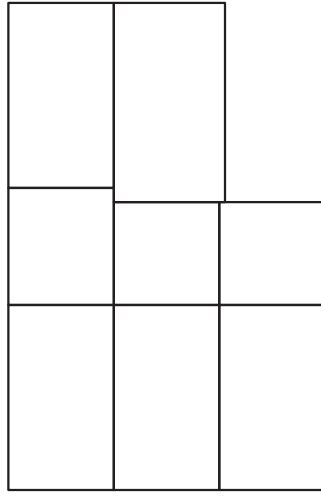


FIG. 35A



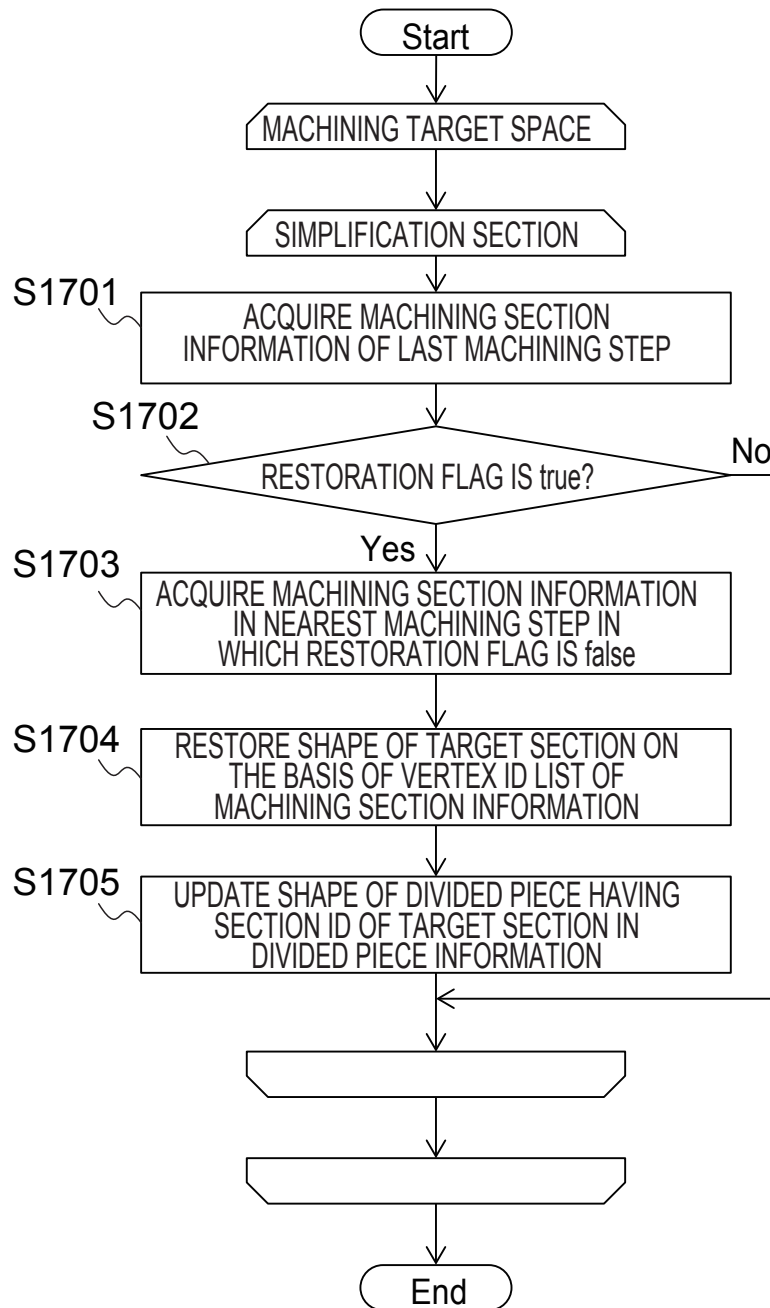


FIG. 36

SET PROPERTY

EXECUTE MACHINING

DISPLAY FLOOR

MACHINING STEP (SHAPE)

MACHINING STEP (STRUCTURE)

MACHINING STEP (SHAPING)

COLLECTIVE DRAWING

EXECUTE SIMULATION

ORIGINAL

SHAPE MACHINING

STRUCTURE MACHINING

RESULT SHAPING

CONVERSION INTO BIM

x

y

FIG. 37

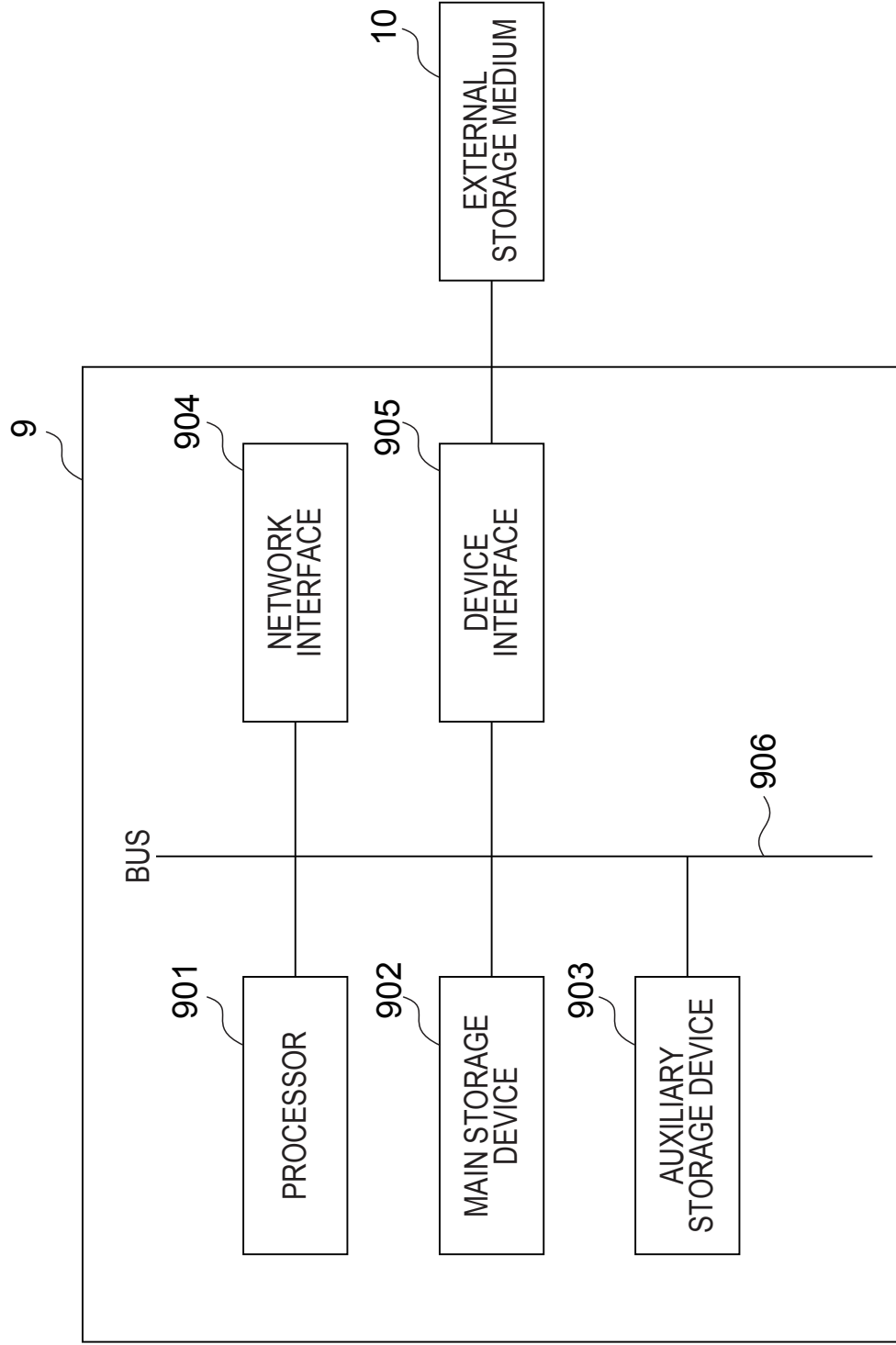


FIG. 38