

10

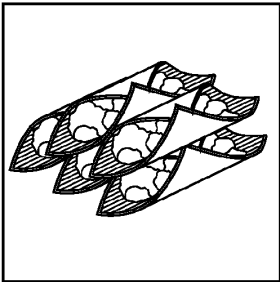


FIG. 1A

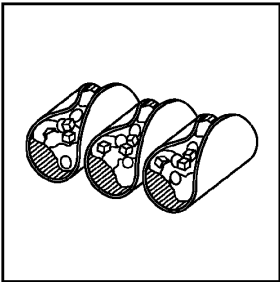


FIG. 1B

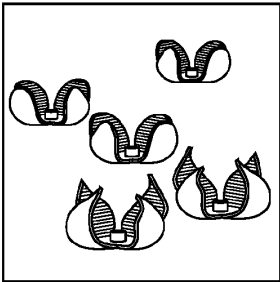


FIG. 1C

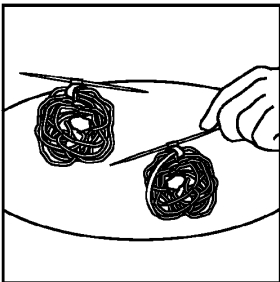


FIG. 1D

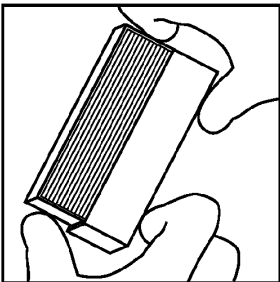


FIG. 1E

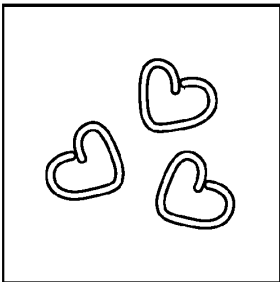
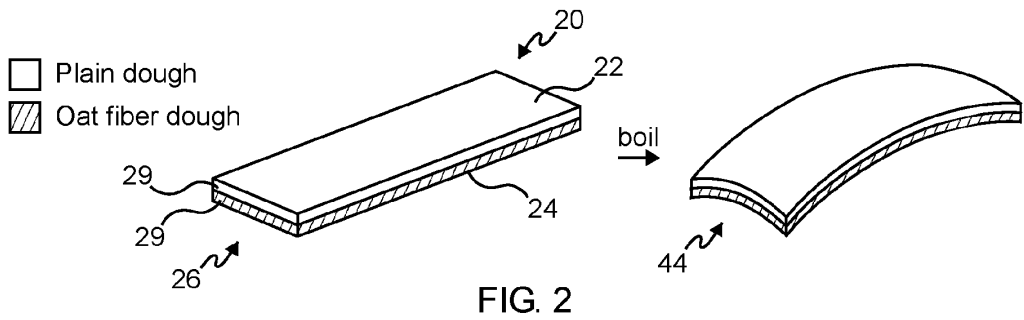
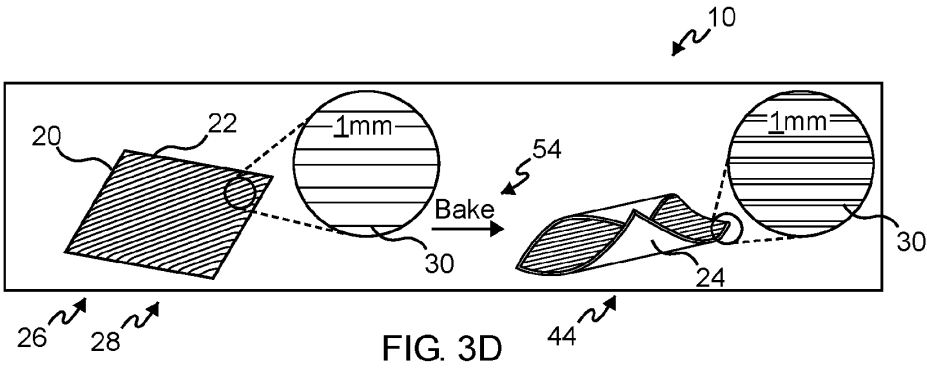
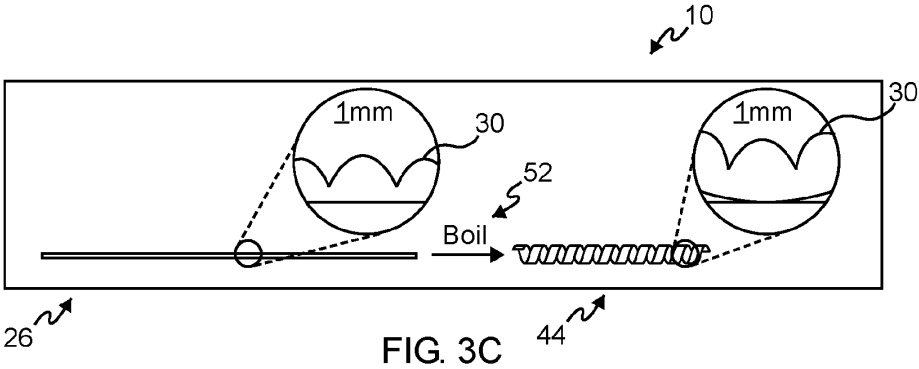
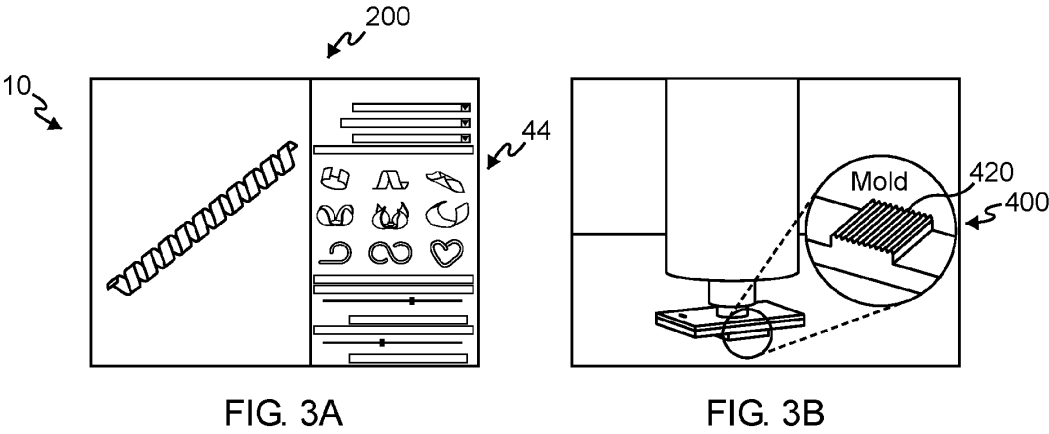


FIG. 1F





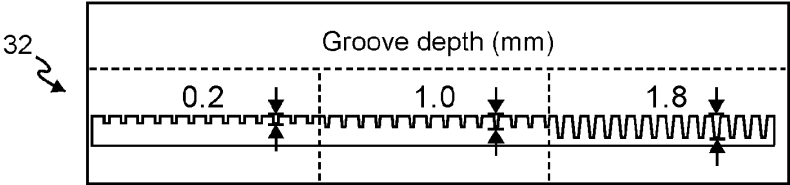


FIG. 4A

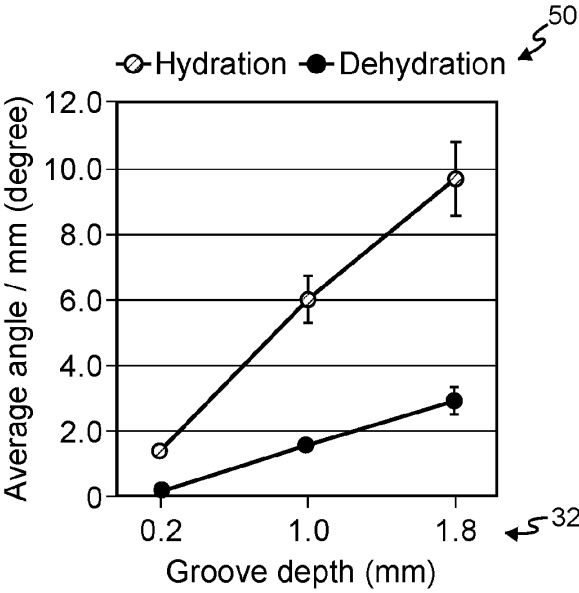
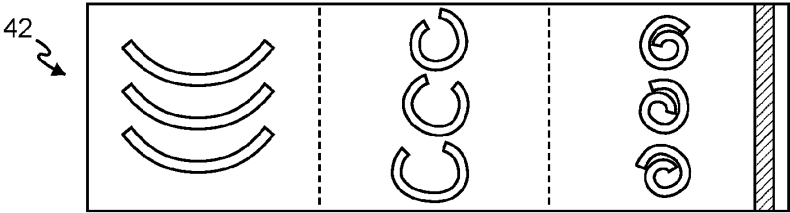
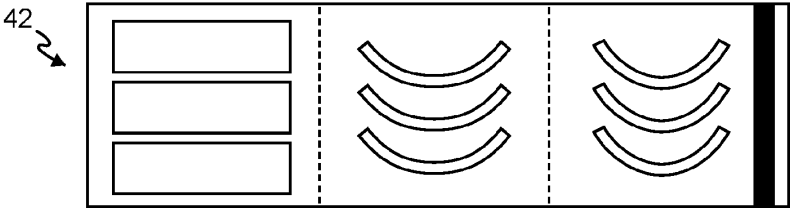


FIG. 4D

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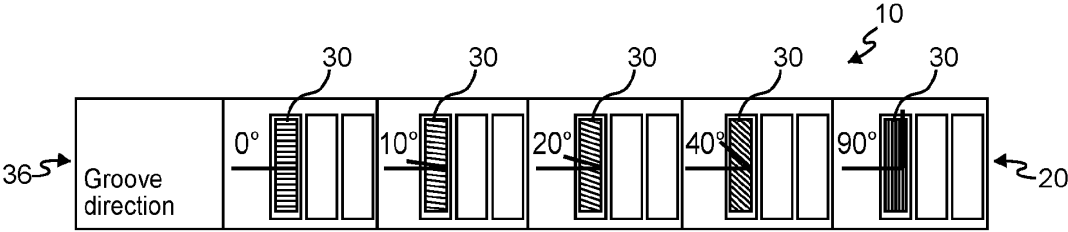


FIG. 5A

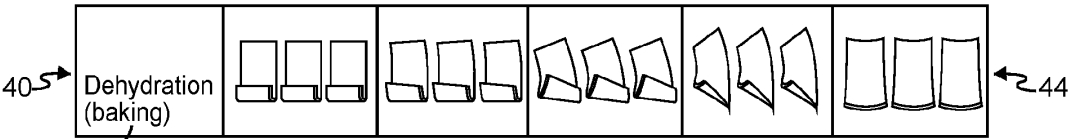


FIG. 5B

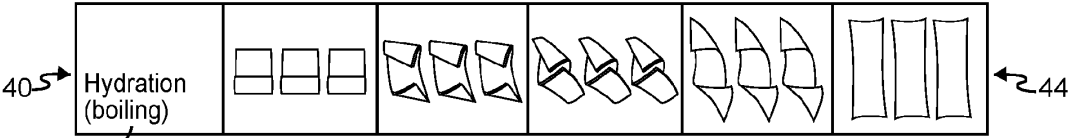


FIG. 5C

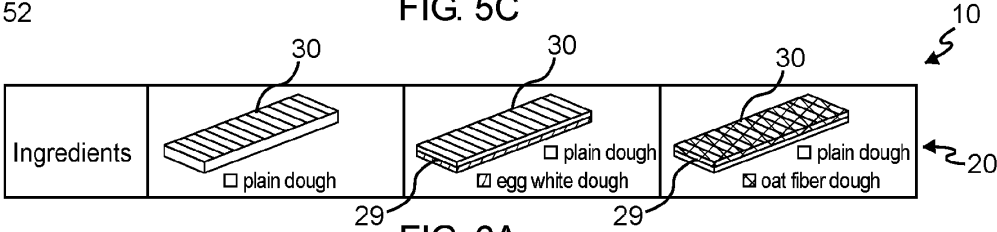


FIG. 6A

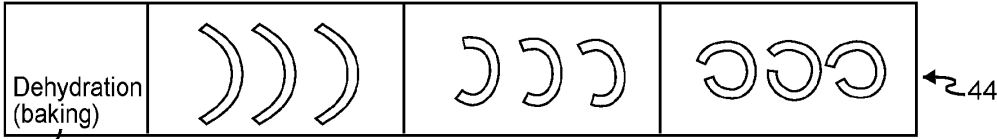
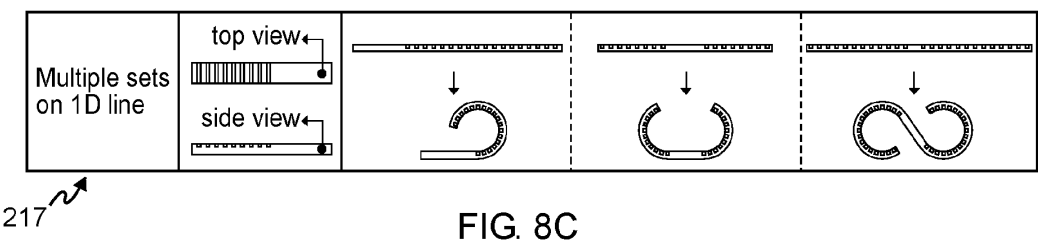
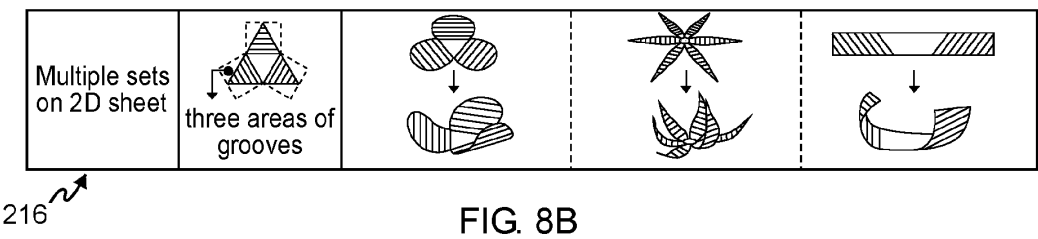
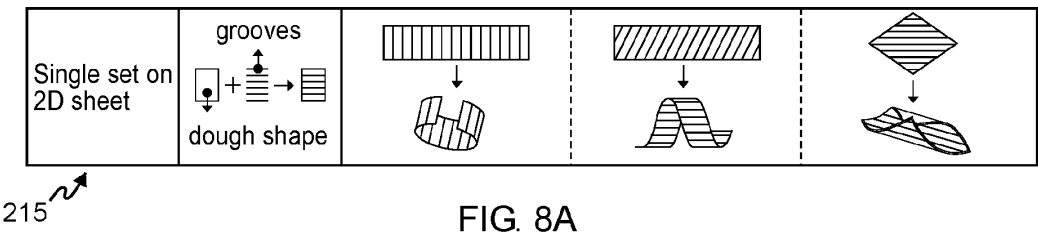
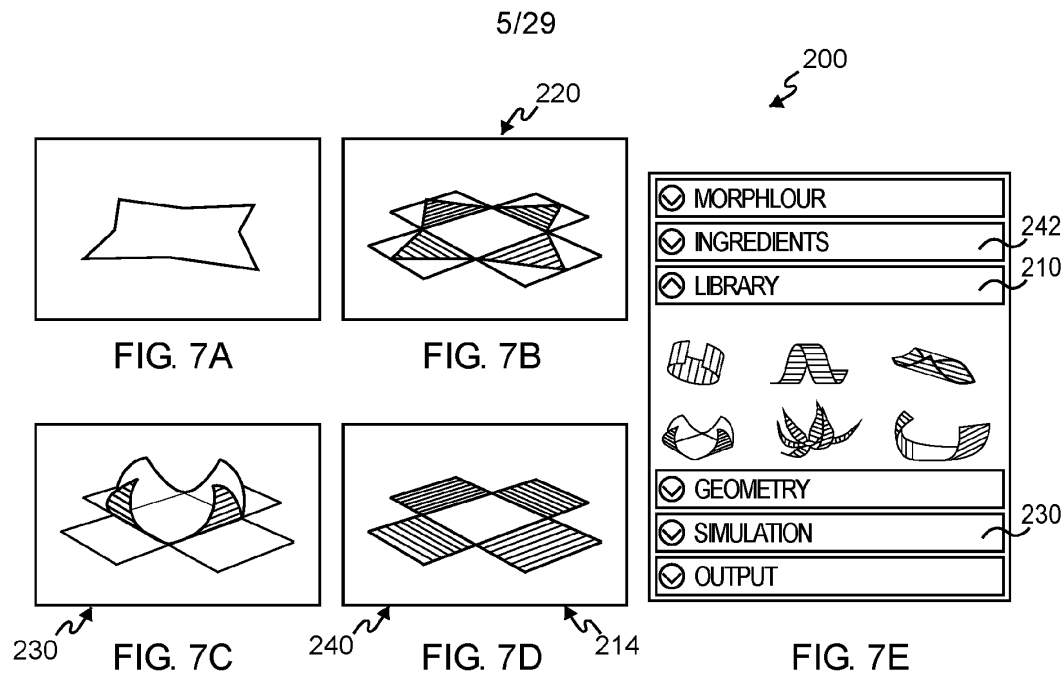


FIG. 6B



FIG. 6C



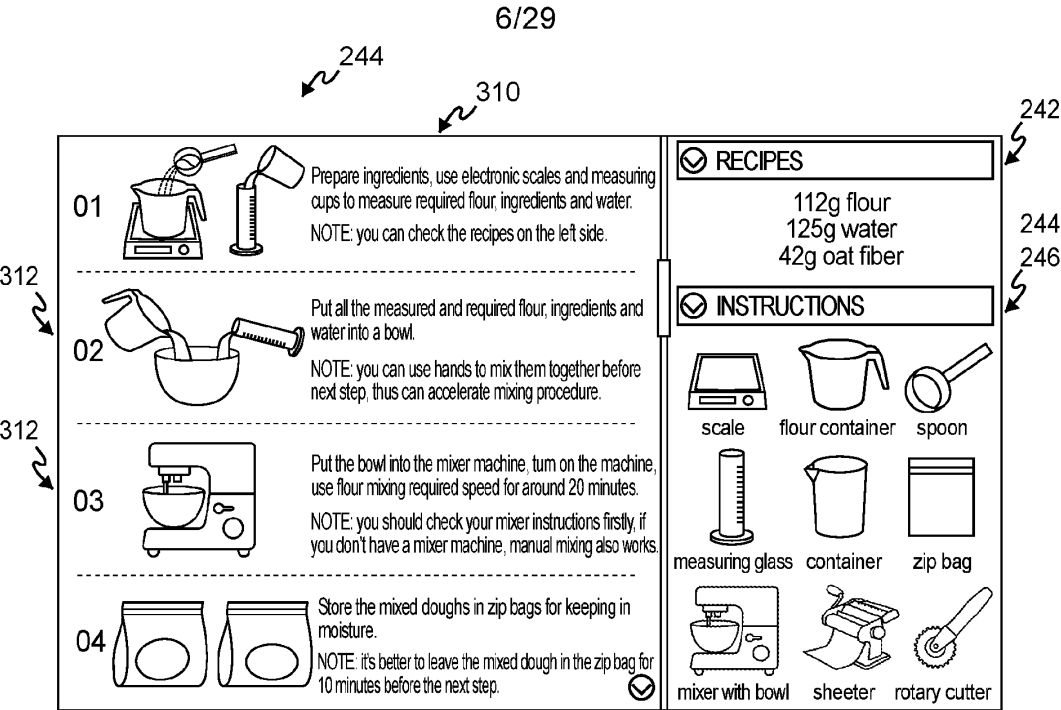


FIG. 9

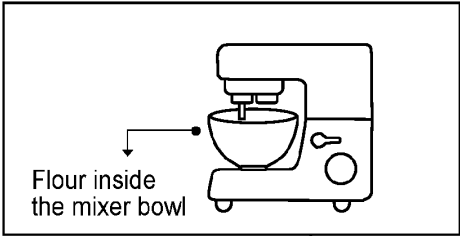


FIG. 10A

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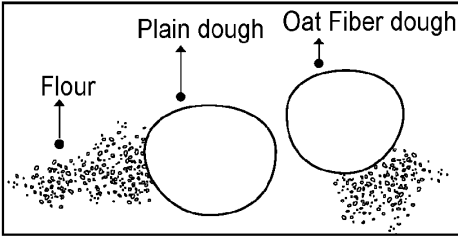


FIG. 10B

20

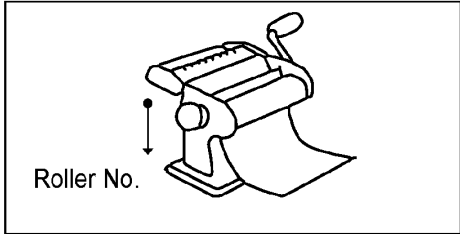


FIG. 10C

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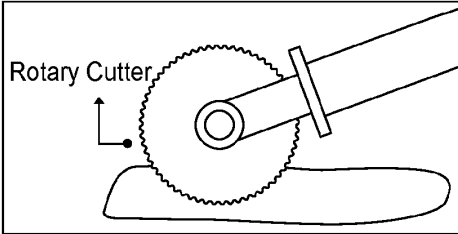
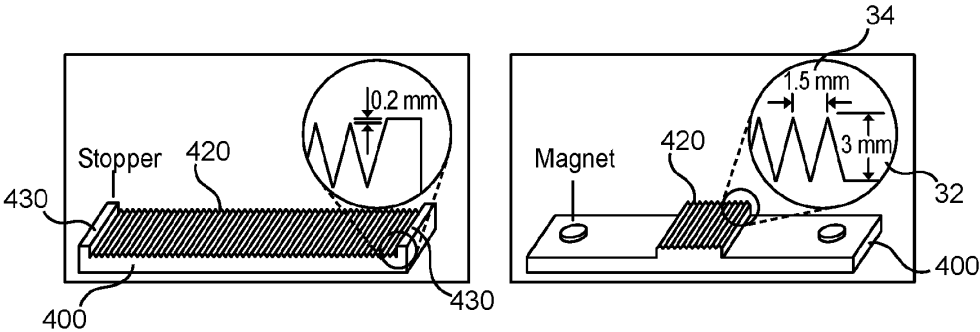
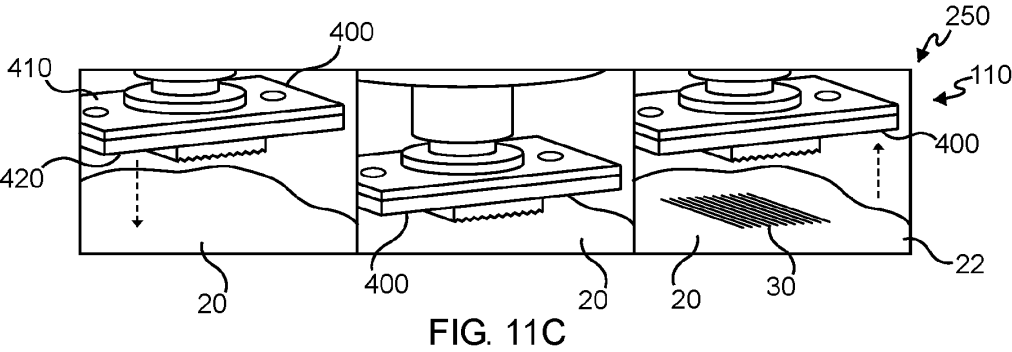
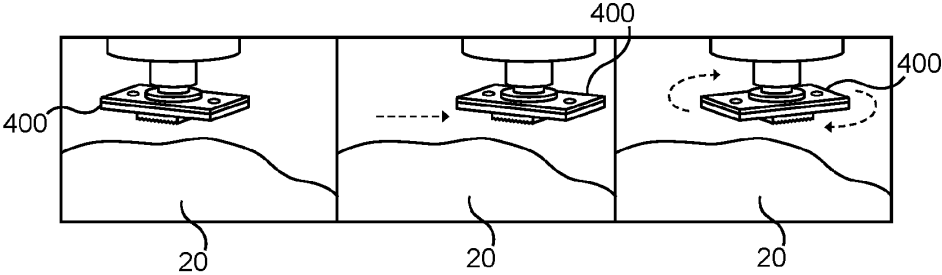
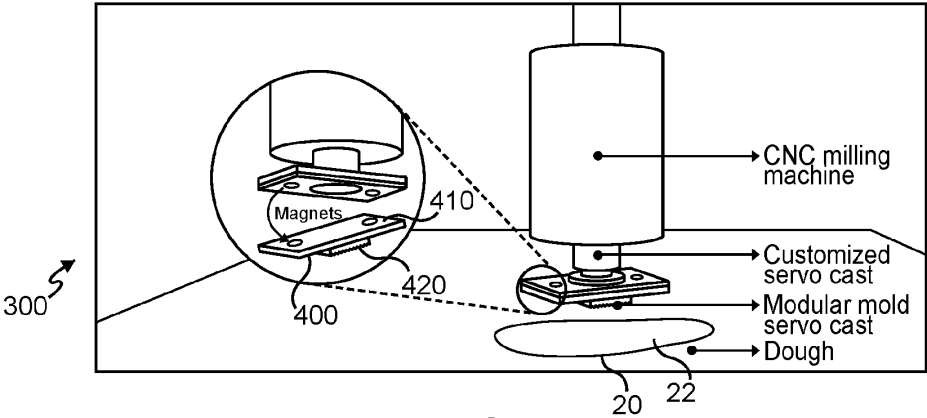


FIG. 10D

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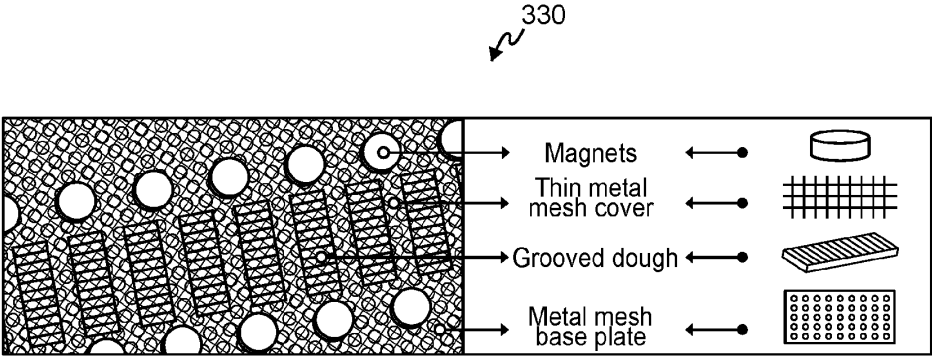


FIG. 13

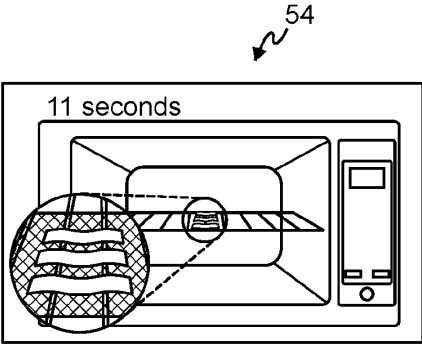


FIG. 14A

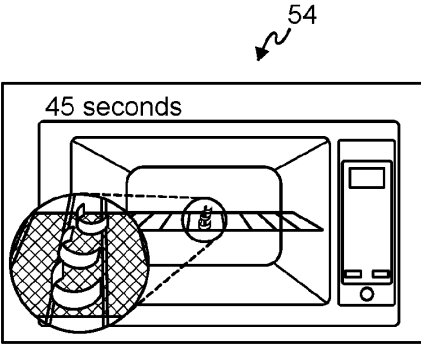
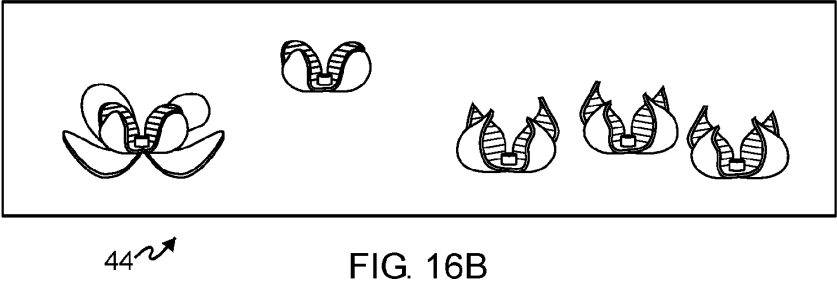
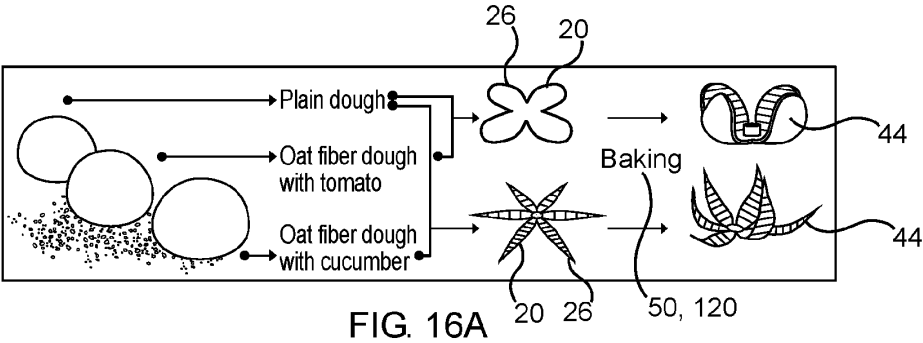
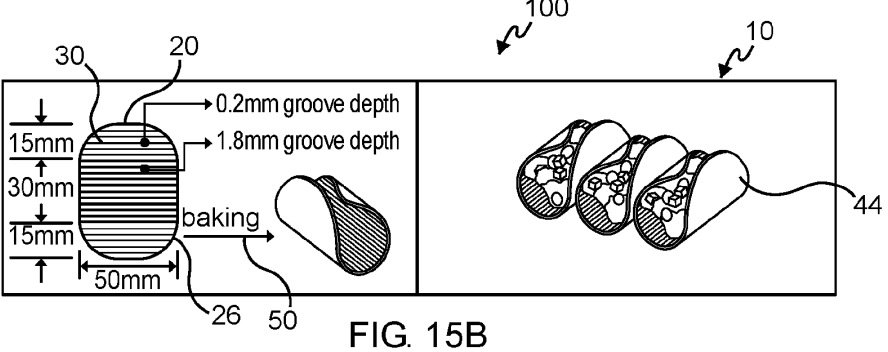
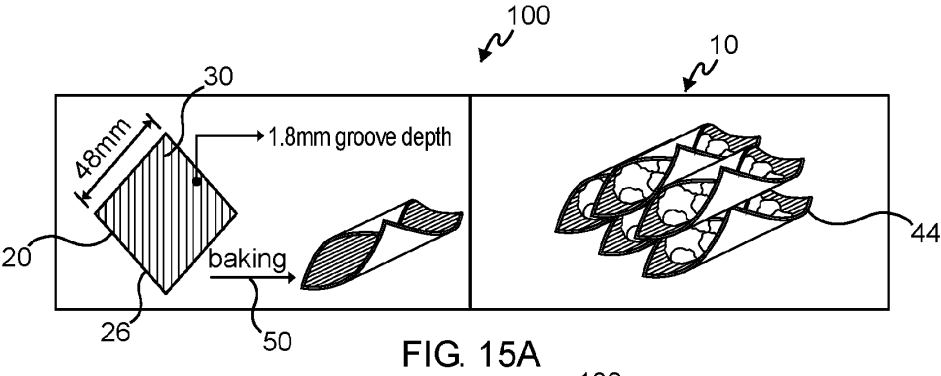


FIG. 14B

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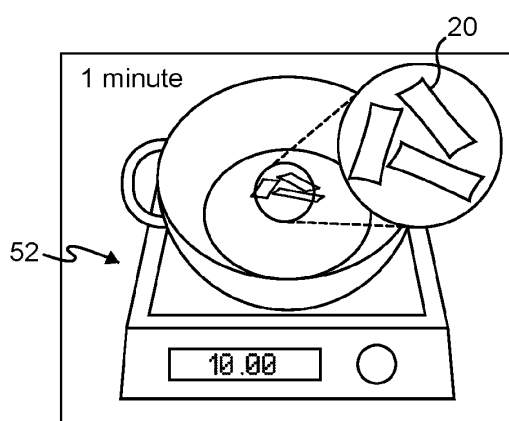


FIG. 17A

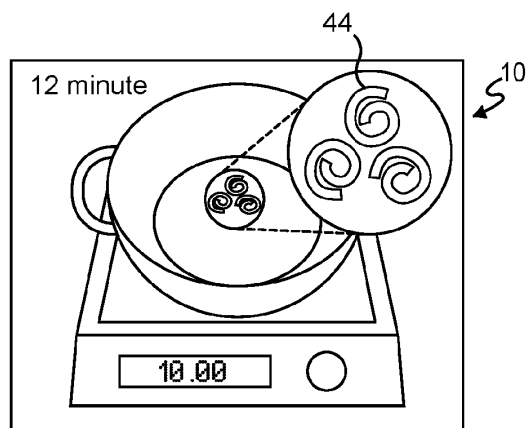


FIG. 17B

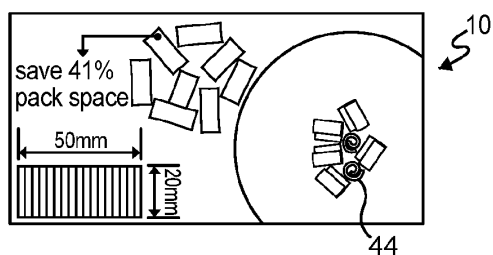


FIG. 18A

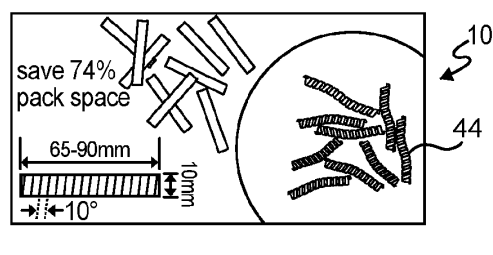


FIG. 18B

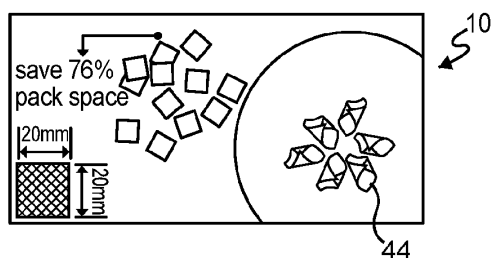


FIG. 18C

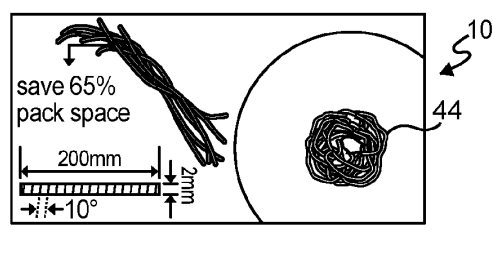
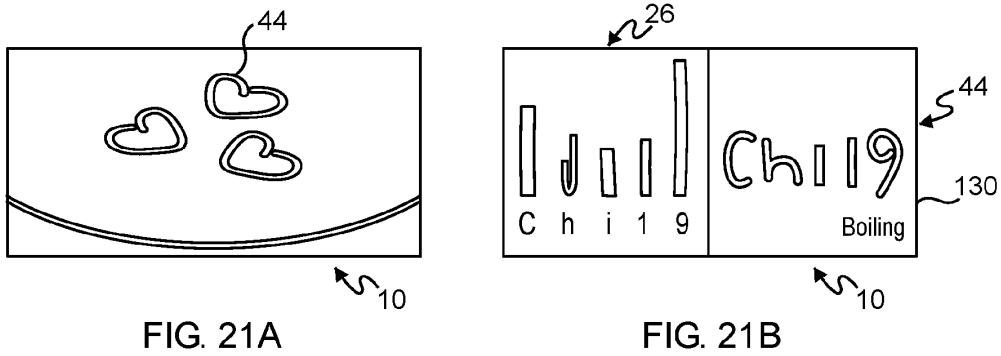
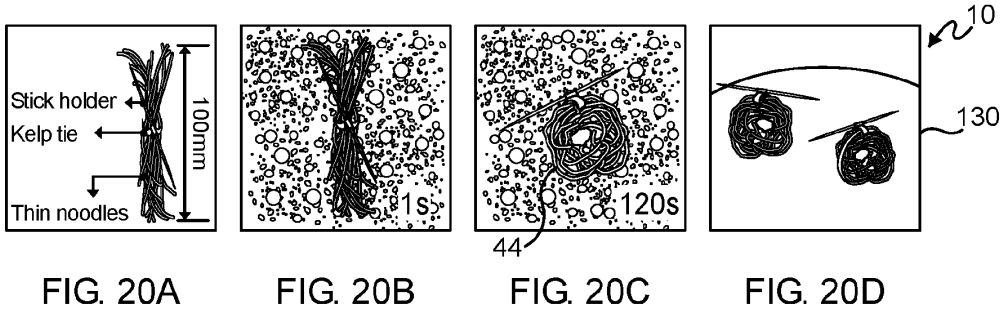
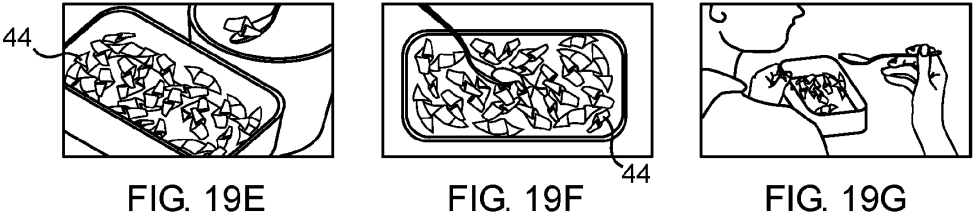
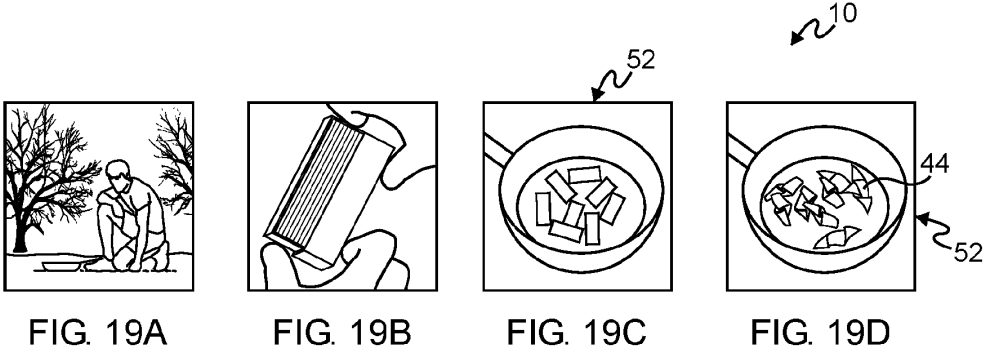
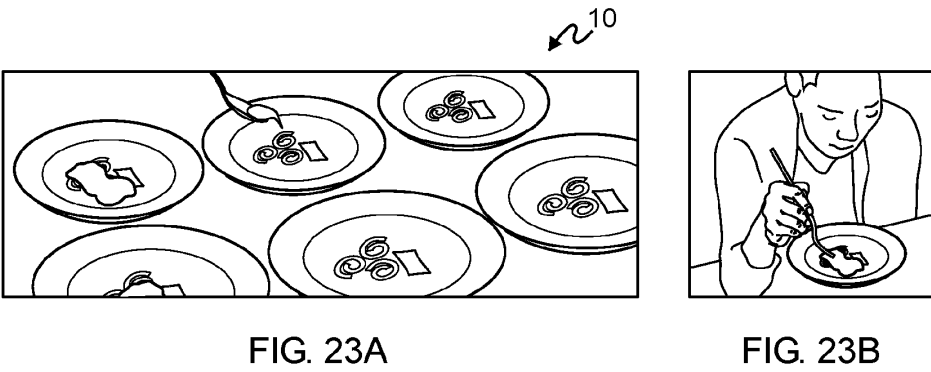
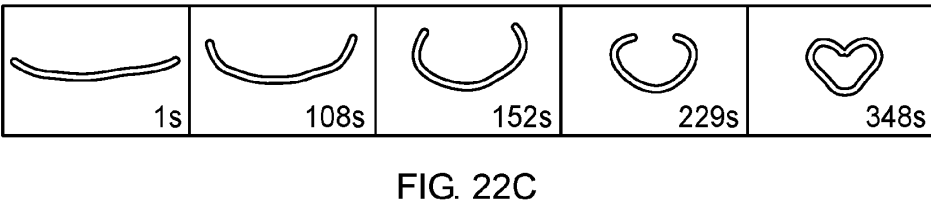
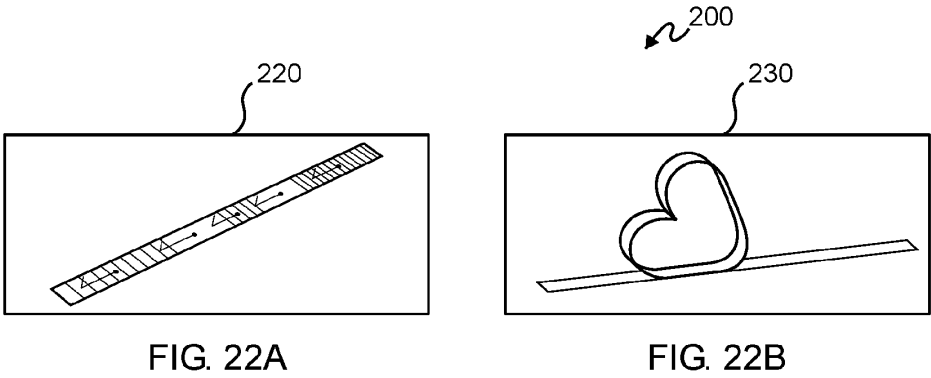
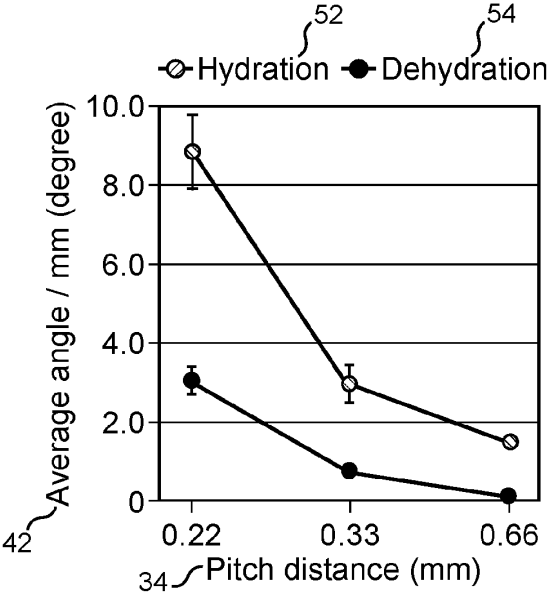
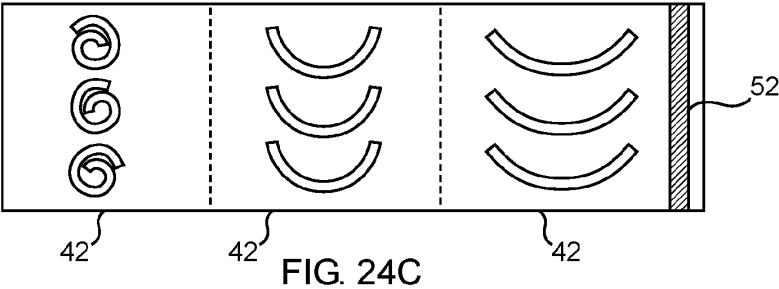
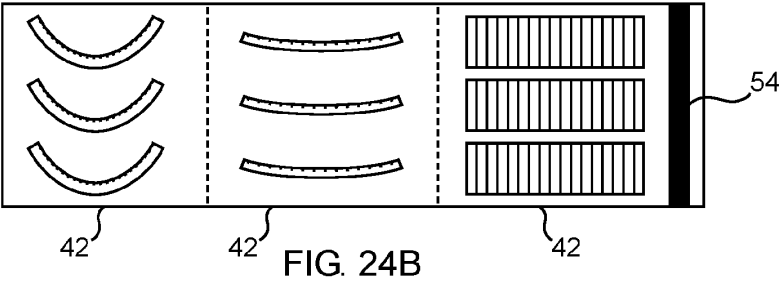
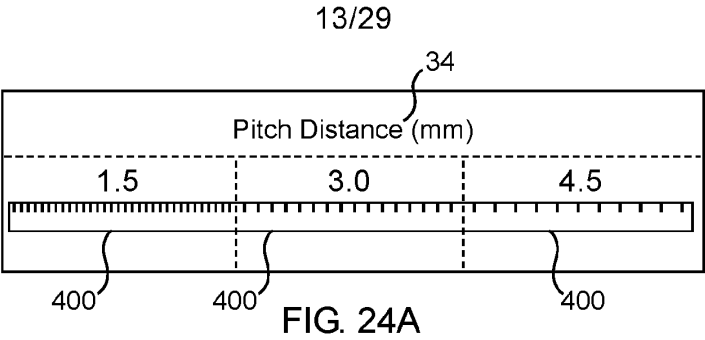


FIG. 18D



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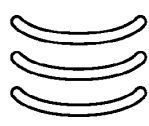
Roller No.	1	2	3	4	5
Thickness (mm)	~3.3	~3.0	~2.0	~1.6	~1.1
Dehydration					

FIG. 25A

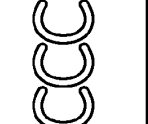
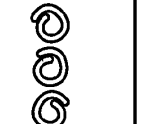
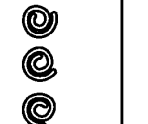
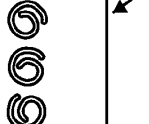
Roller No.	1	2	3	4	5
Thickness (mm)	~3.3	~3.0	~2.0	~1.6	~1.1
Hydration state in the water					

FIG. 25B

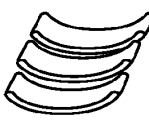
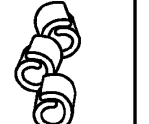
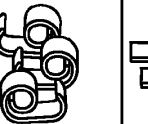
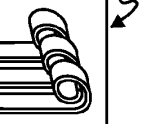
Roller No.	1	2	3	4	5
Thickness (mm)	~3.3	~3.0	~2.0	~1.6	~1.1
Hydration state out of the water					

FIG. 25C

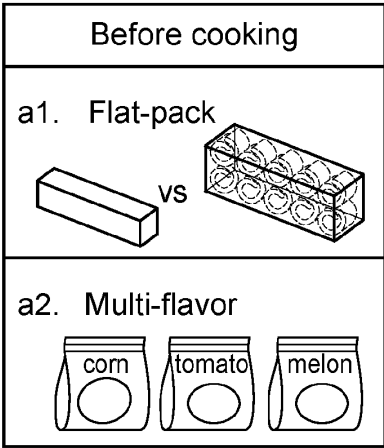


FIG. 26A

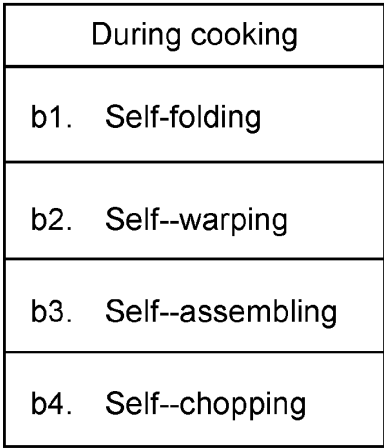


FIG. 26B

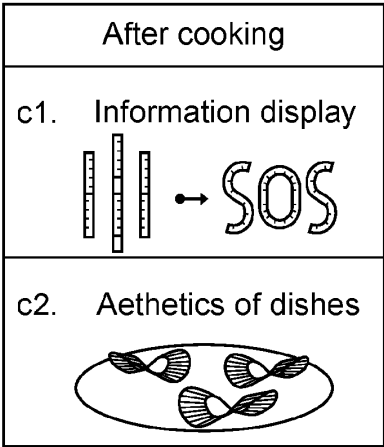
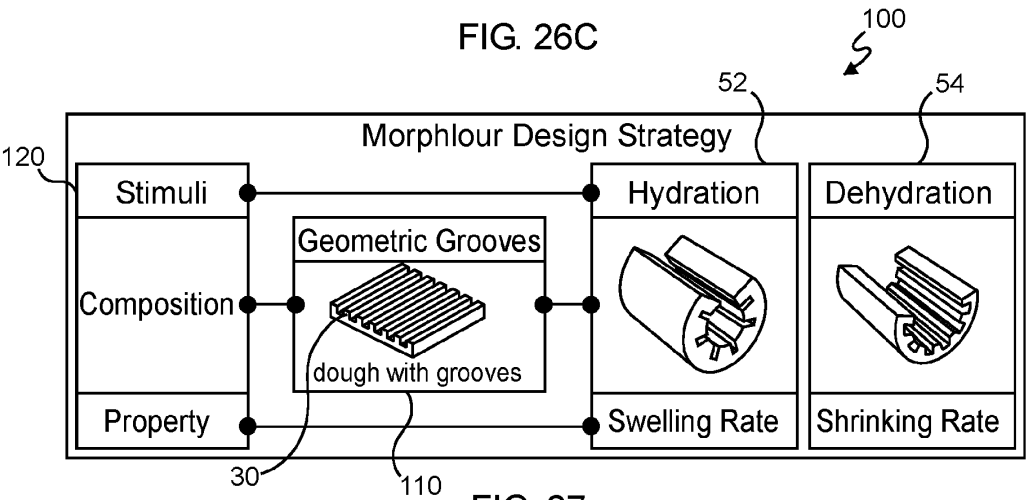


FIG. 26C



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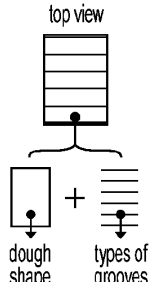
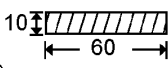
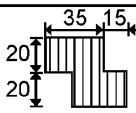
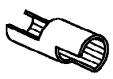
Library	Groove Instruction	2D Design (mm)	3D Simulation	2D Experiment	3D Result
215 (a) Single set of grooves on 2D sheet 	a1: Cannoli Type: parallel Angle: 0° Depth: 1.8mm Area: single on one side				
	a2: Helix Type: parallel Angle: 80° Depth: 1.8mm Area: single on one side				
	a3: Bamboo Type: parallel Angle: 90° Depth: 1.8mm Area: single on one side				
	a4: Speaker Type: rayed Angle: multiple Depth: 1.8mm Area: single on one side				

FIG. 28A

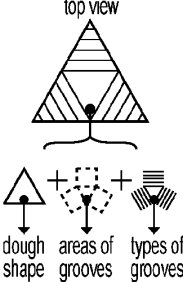
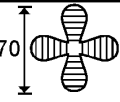
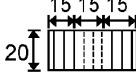
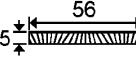
Library	Groove Instruction	2D Design (mm)	3D Simulation	2D Experiment	3D Result
216 (b) Multiple sets of grooves on 2D sheet 	b1: Flower Type: parallel Angle: 0°, 90° Depth: 1.8mm Area: four on one side				
	b2: Wave Type: parallel Angle: 90° Depth: 1.8mm Area: three on double sides				
	b3: Cavel Type: rayed Angle: multiple Depth: 1.8mm Area: three on one side				
	b4: Chips Type: rayed Angle: multiple Depth: 1.8mm Area: four on double sides				

FIG. 28B

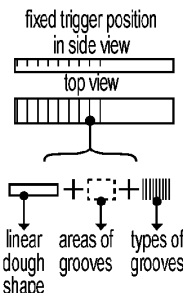
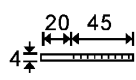
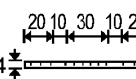
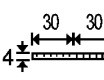
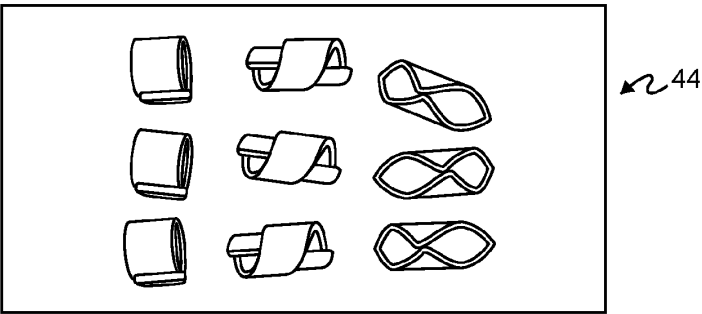
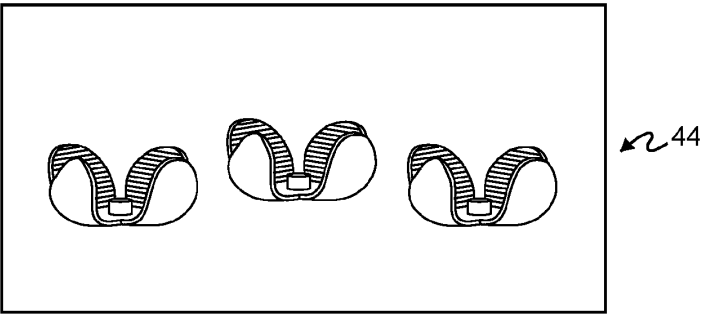
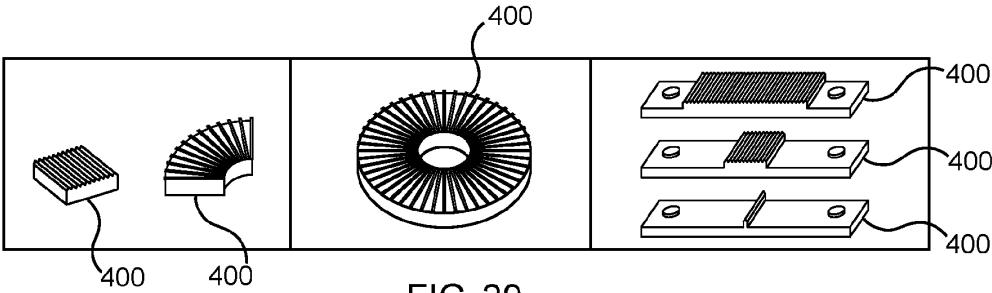
Library	Groove Instruction	2D Design (mm)	3D Simulation	2D Experiment	3D Result
217 (2) Multiple sets of grooves on 1D line 	c1: No. 6 Type: parallel Angle: 90° Depth: 1.8mm Area: single on one side				
	c2: Character C Type: parallel Angle: 90° Depth: 1.8mm Area: two on one side				
	c3: Heart Type: parallel Angle: 90° Depth: 1.8mm Area: three on one side				
	c4: Character S Type: parallel Angle: 90° Depth: 1.8mm Area: two on double sides				

FIG. 28C

SUBSTITUTE SHEET (RULE 26)



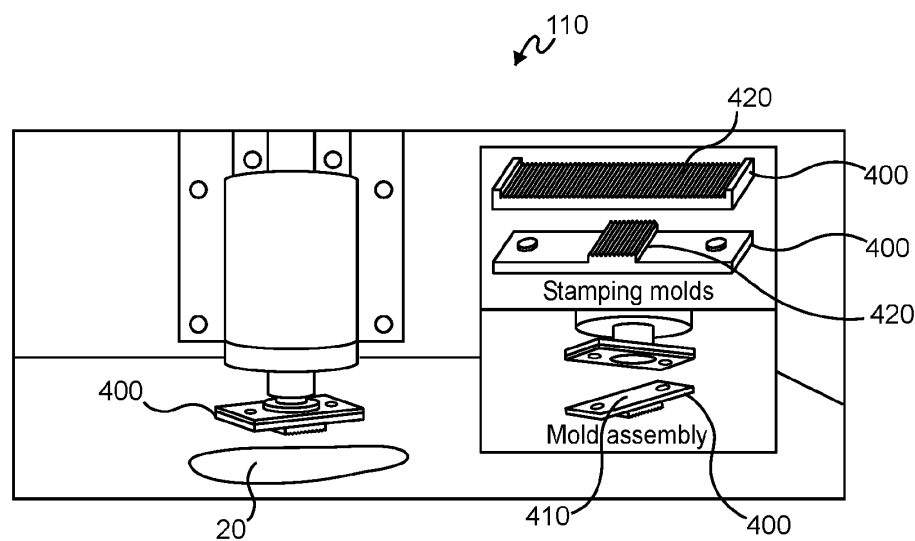


FIG. 31A

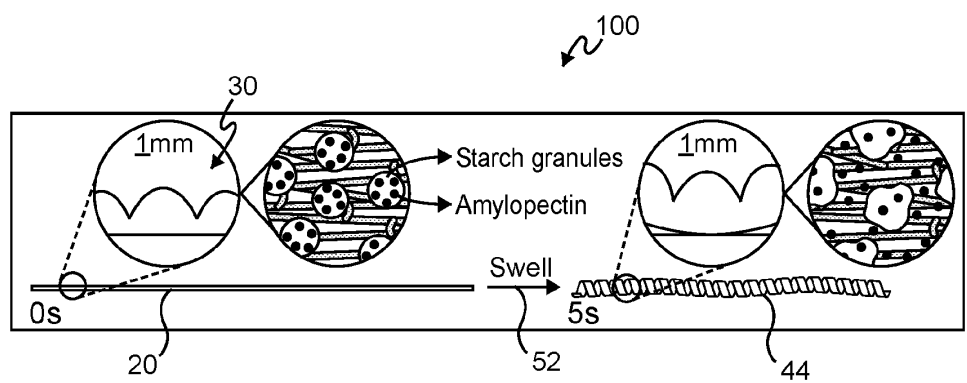


FIG. 31B

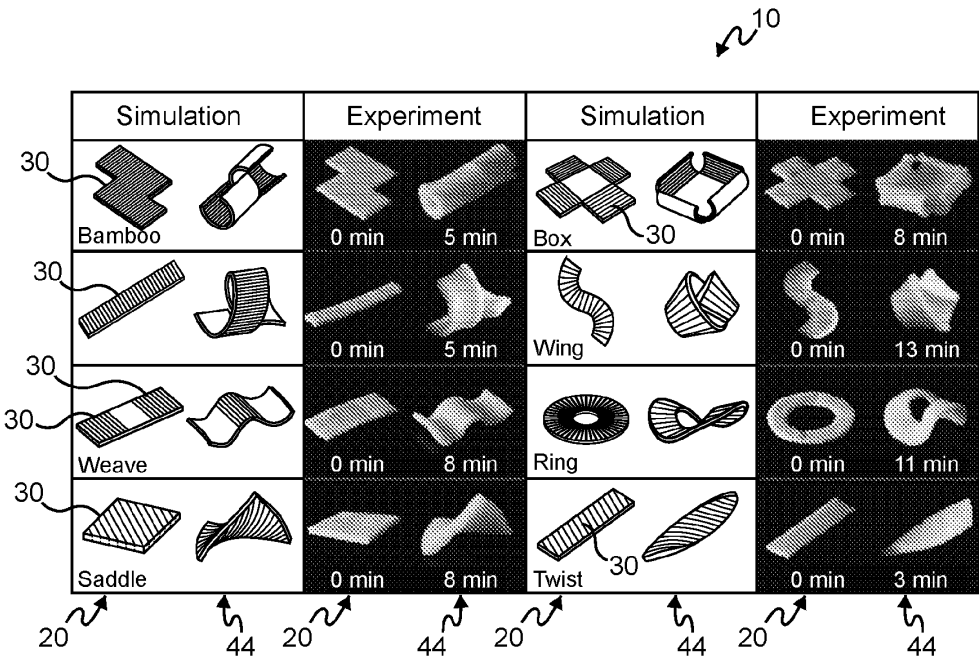


FIG. 32A

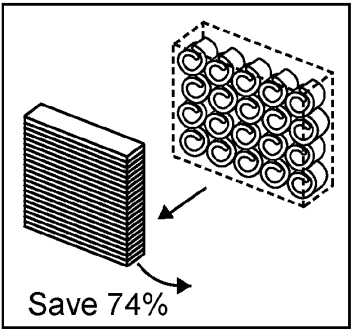


FIG. 32B

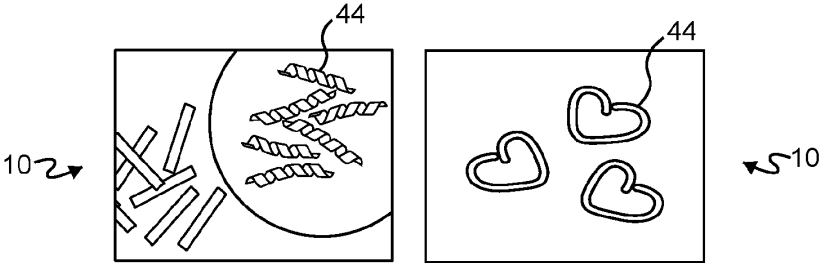


FIG. 32C

FIG. 32D

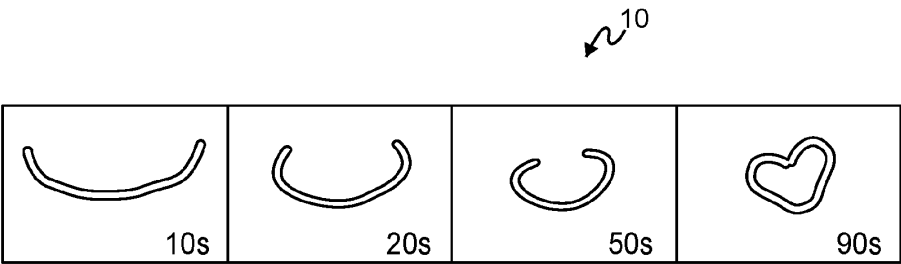


FIG. 32E

$$\Theta = \frac{\sqrt{3}R^2 - \frac{1}{2}\pi R^2 + \frac{1}{2}\pi r^2}{\sqrt{3}R^2}$$

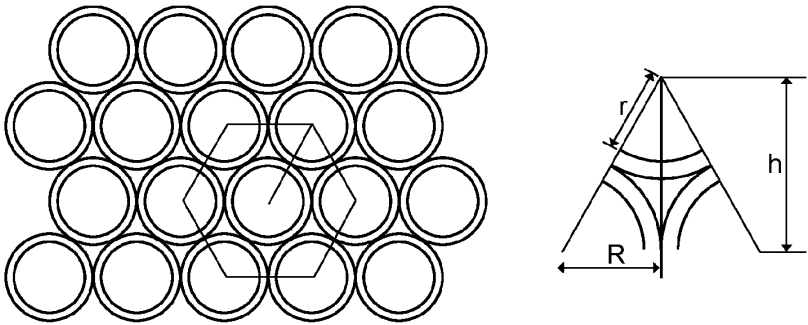


FIG. 33

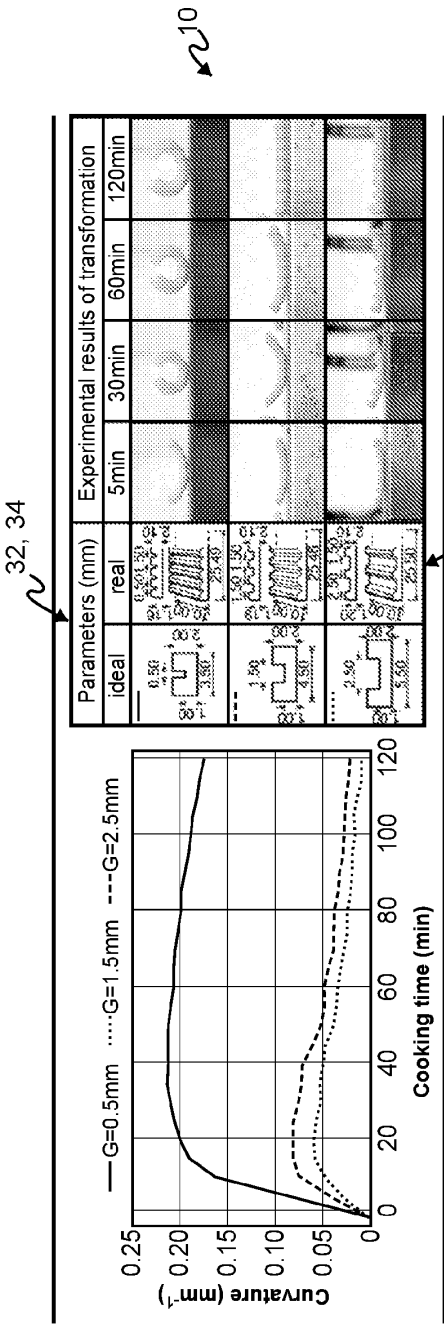


FIG. 34A

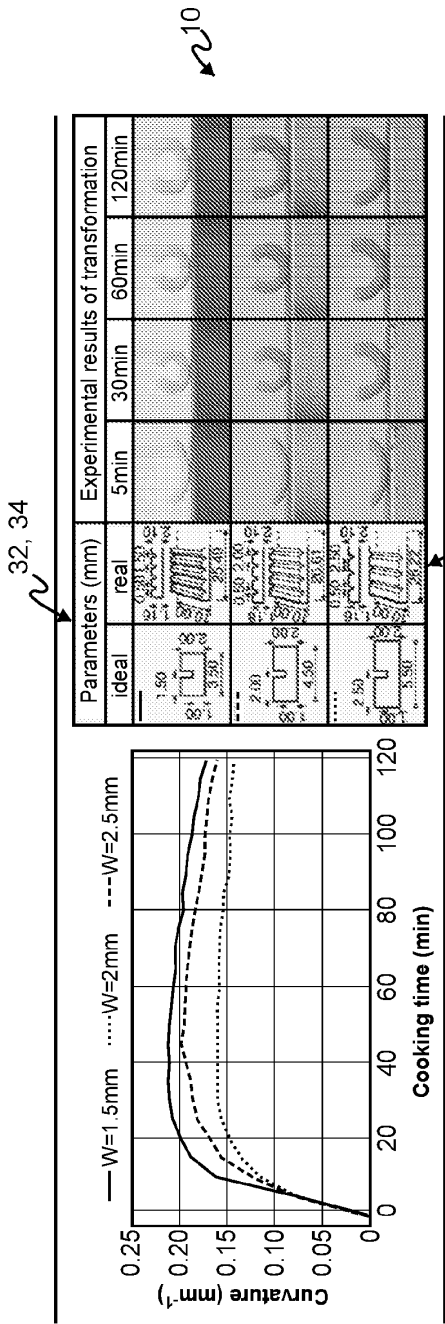


FIG. 34B

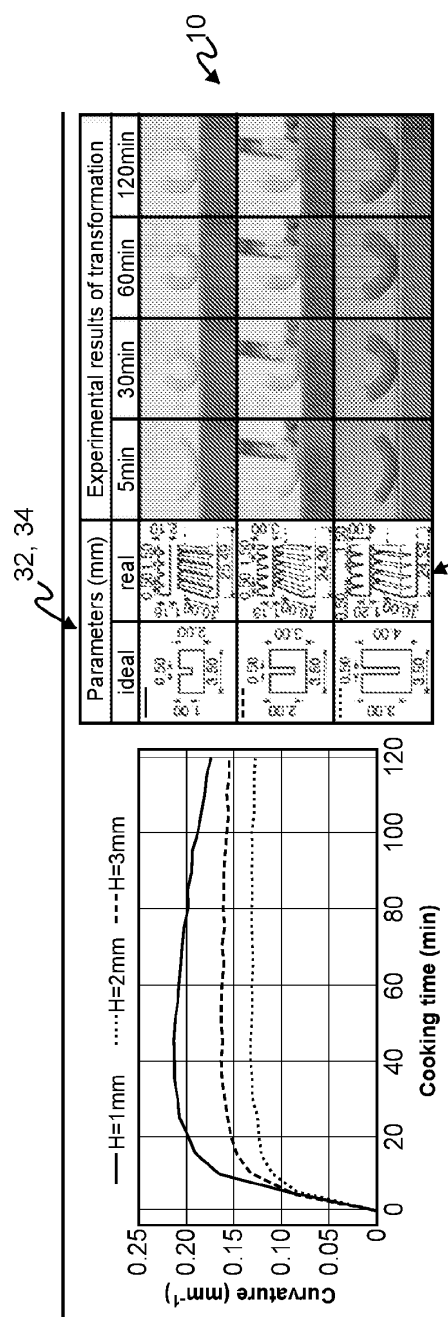


FIG. 34C

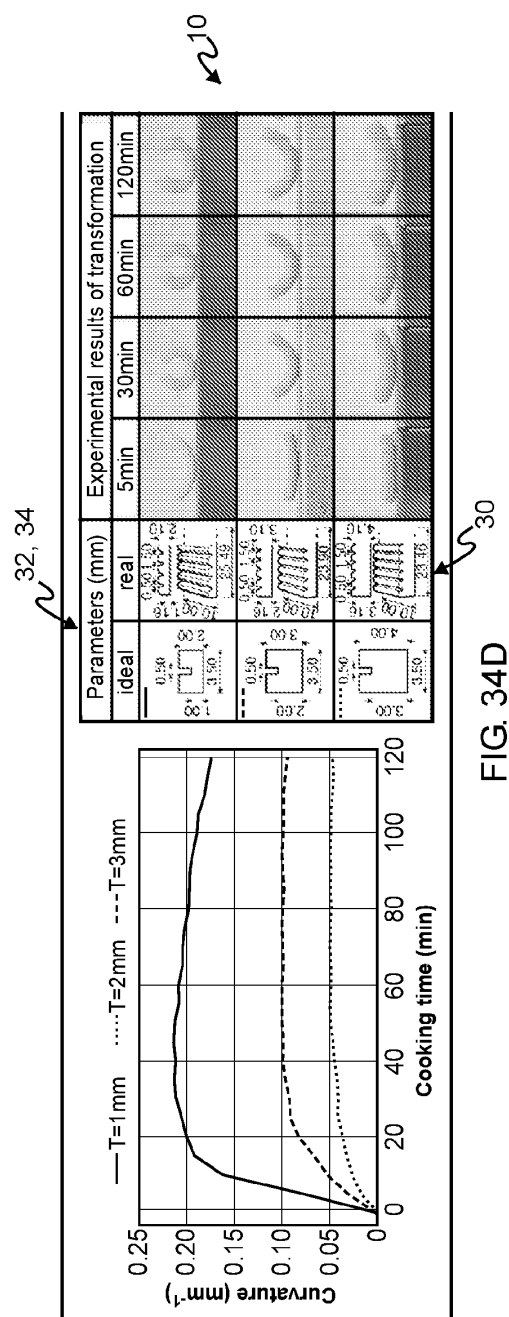


FIG. 34D

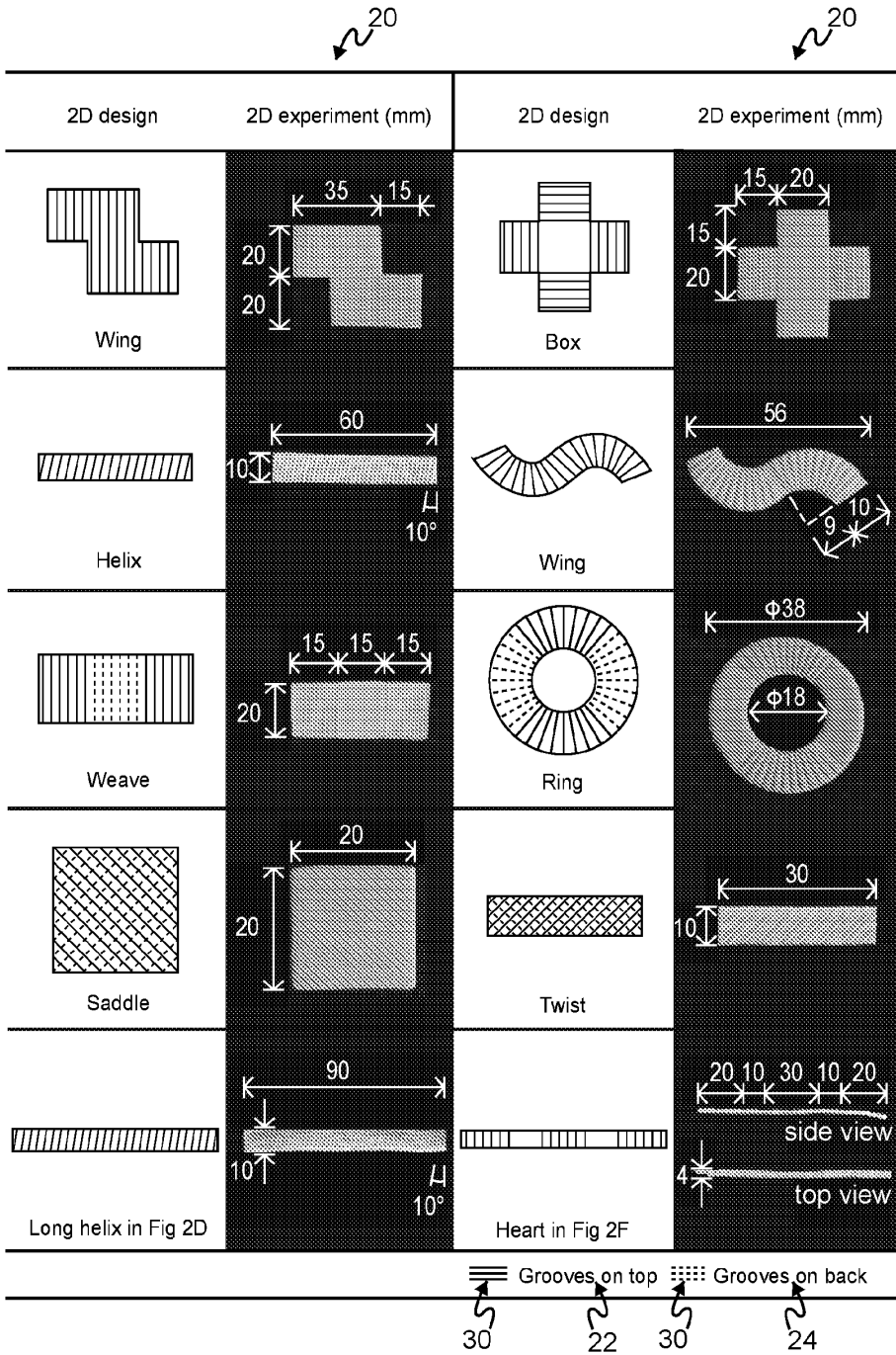


FIG. 35

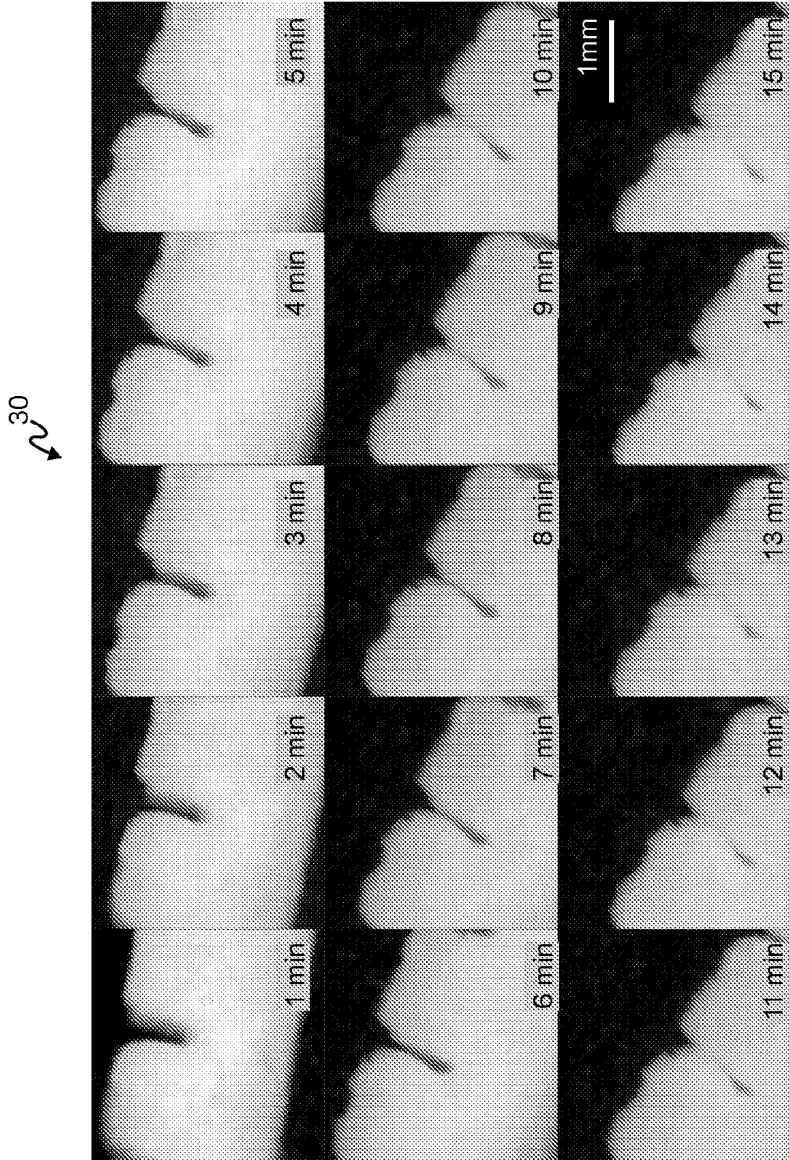


FIG. 36

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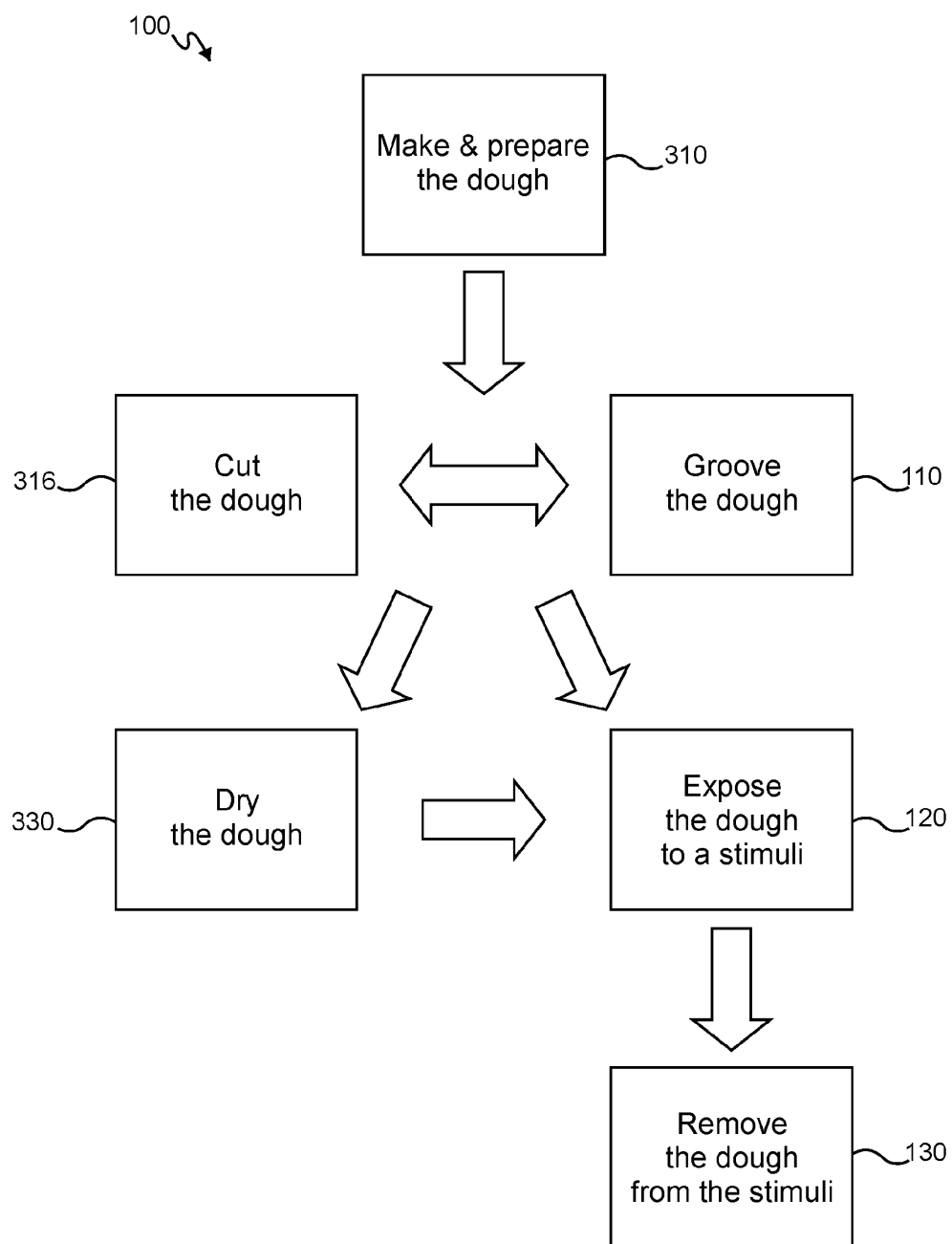


FIG. 37

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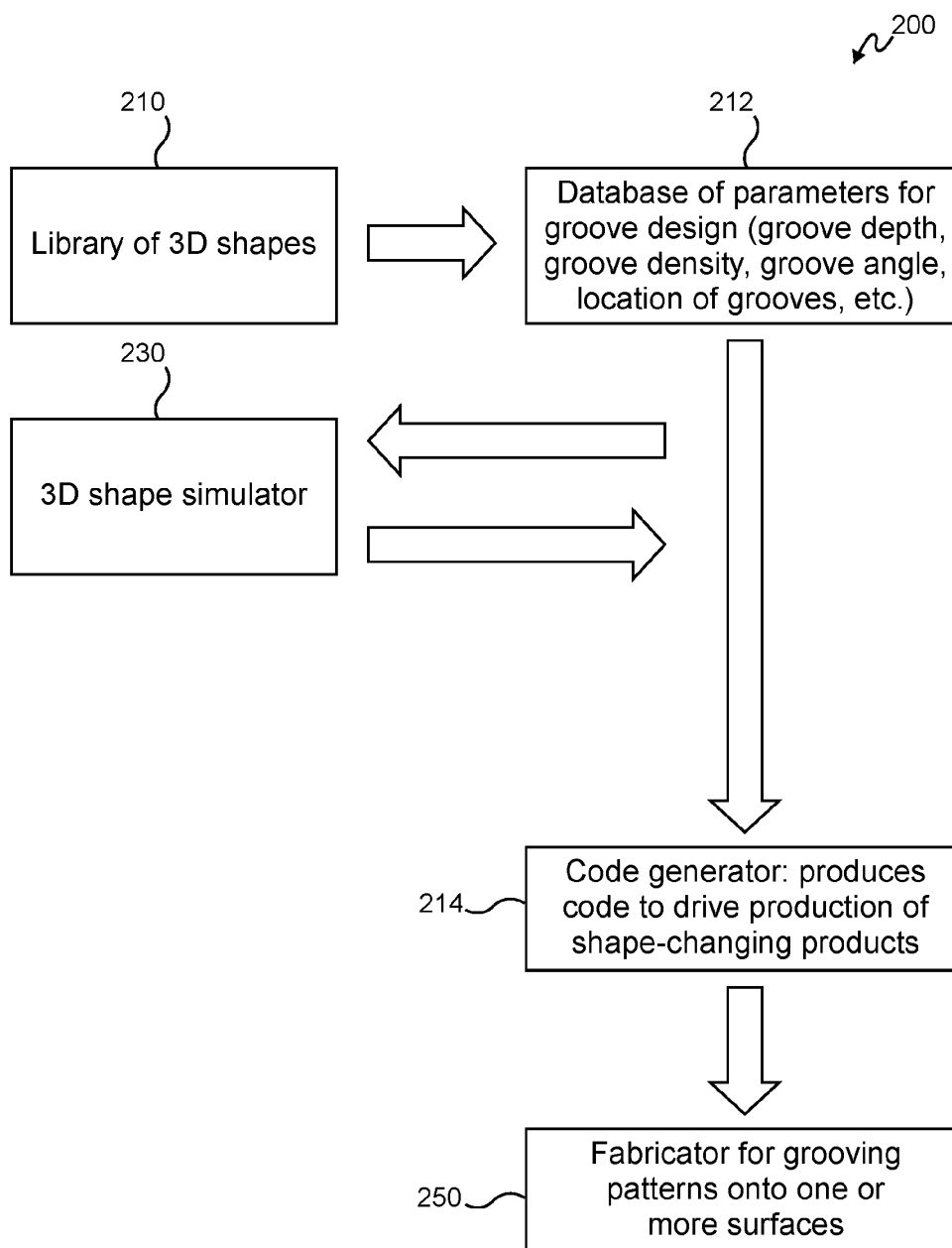


FIG. 38

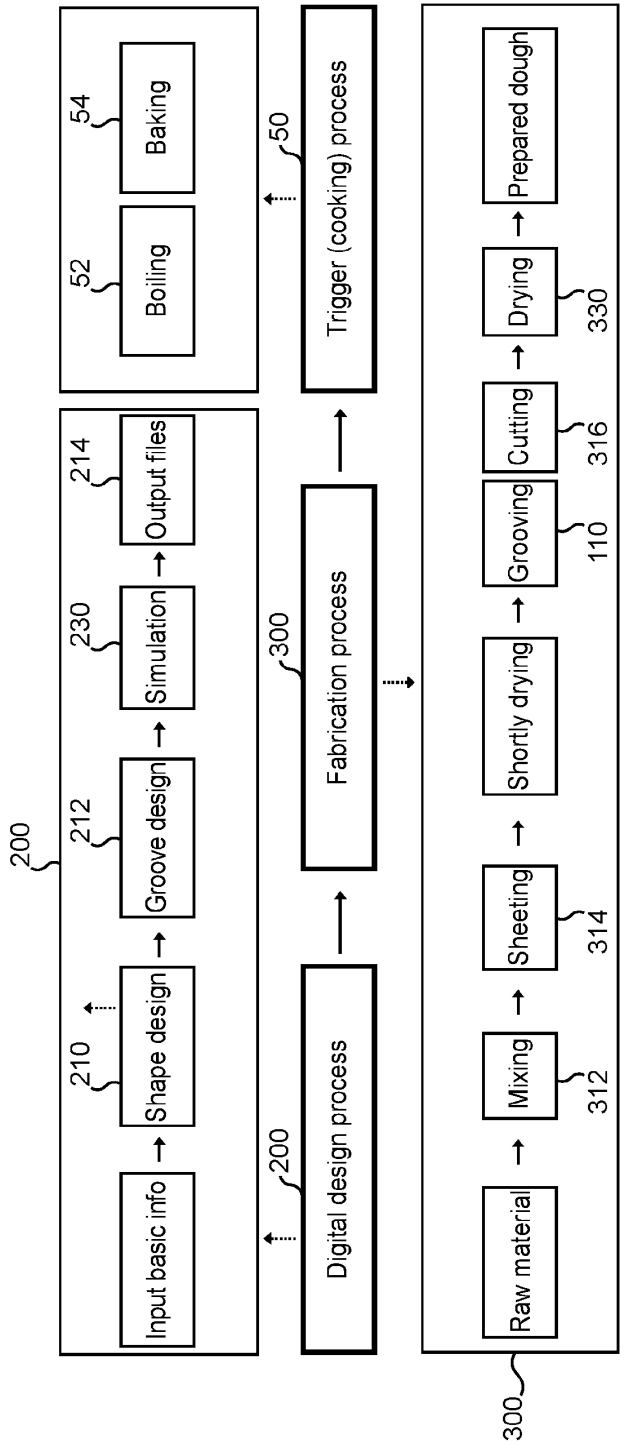


FIG. 39

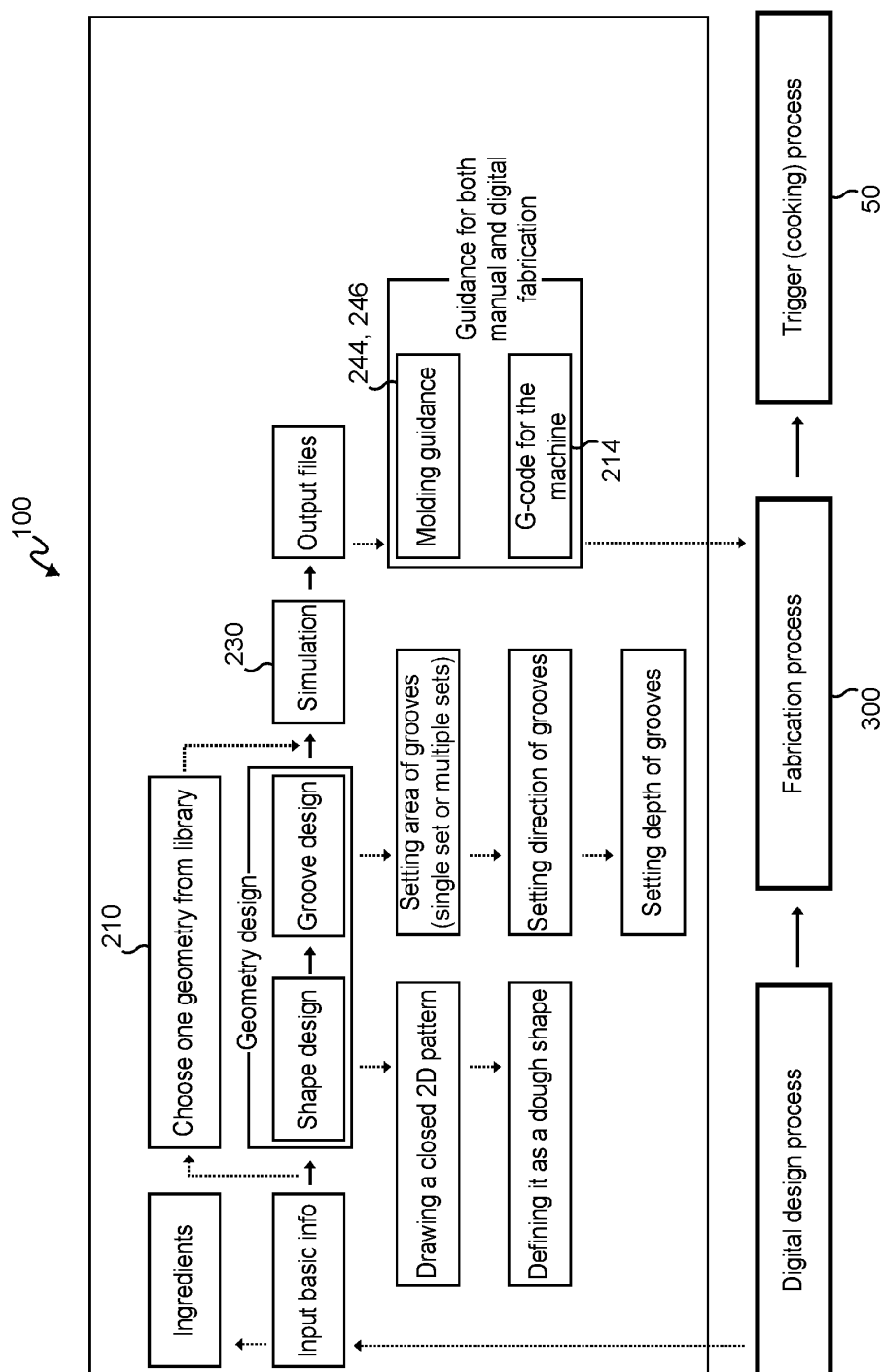


FIG. 40

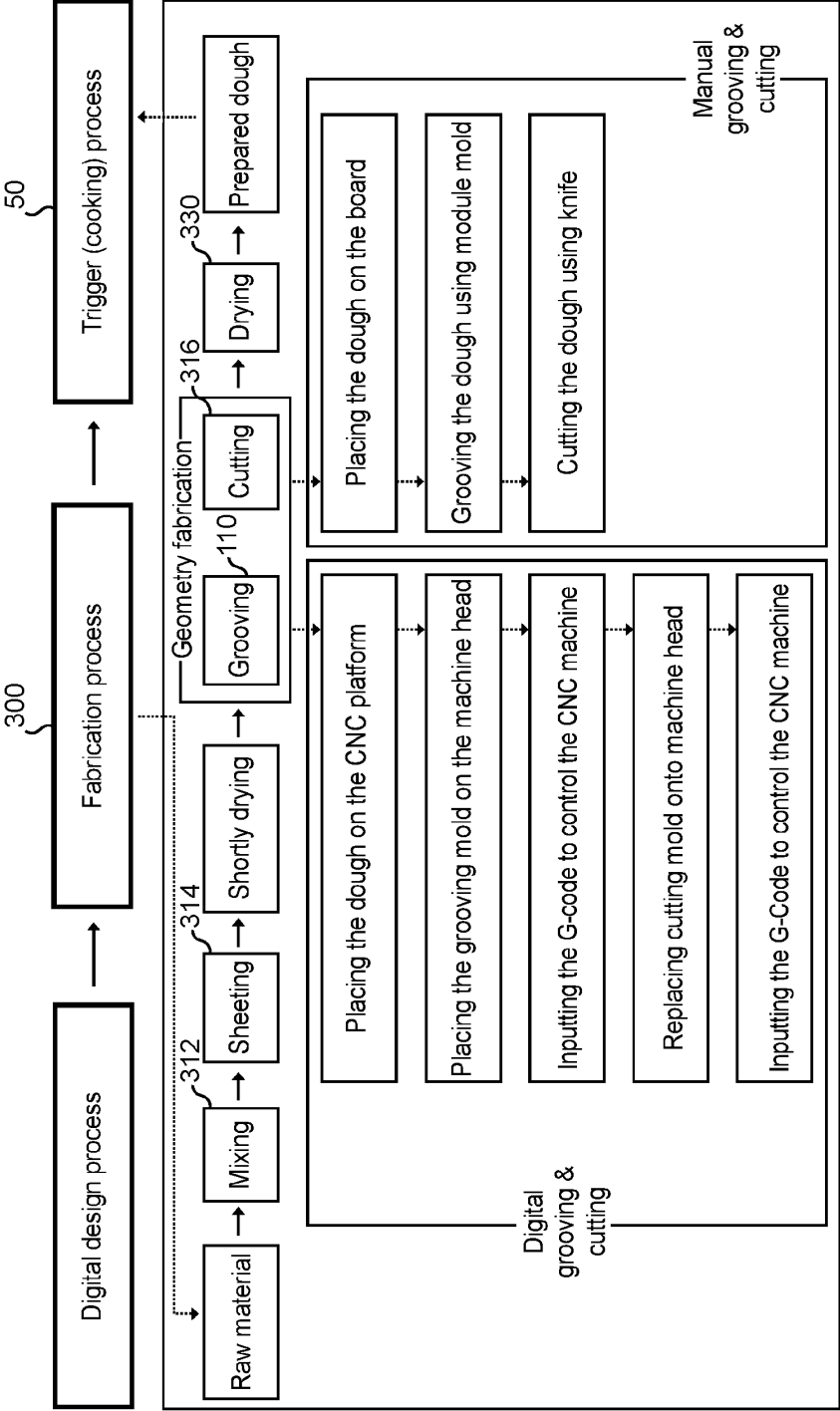


FIG. 41