

FIGURE 1

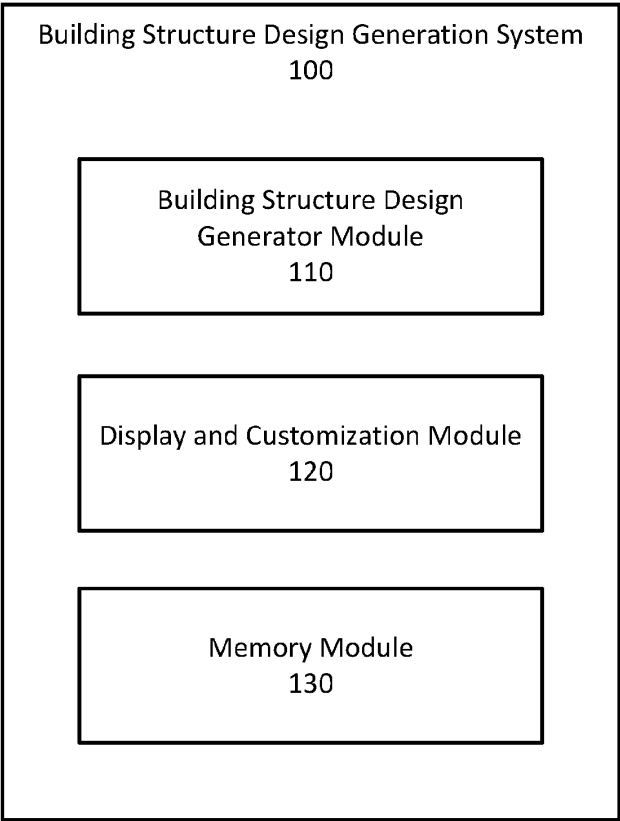


FIGURE 2

200

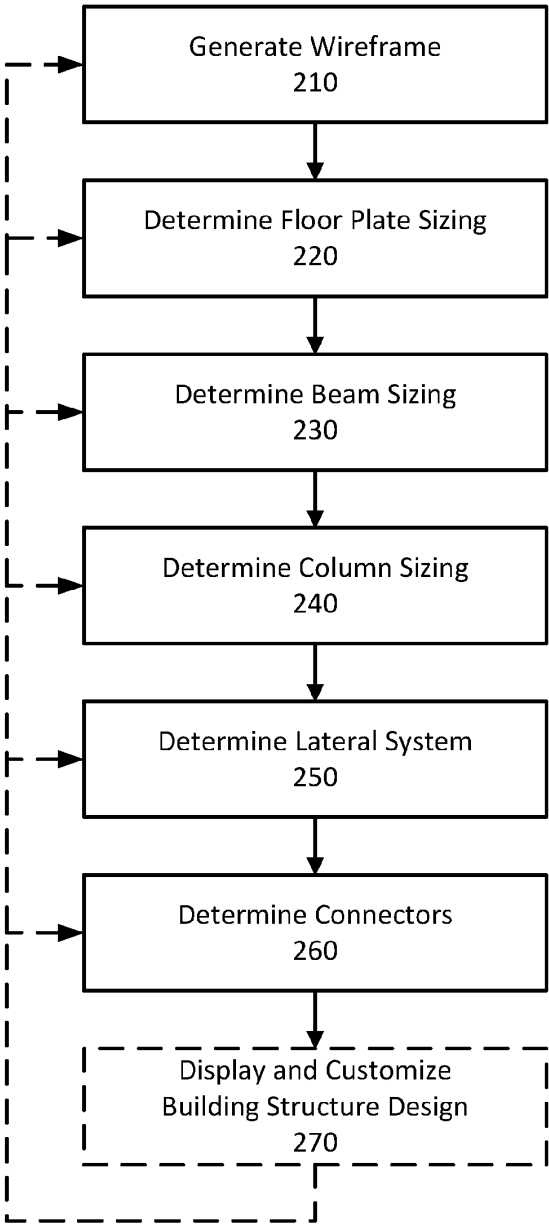


FIGURE 3

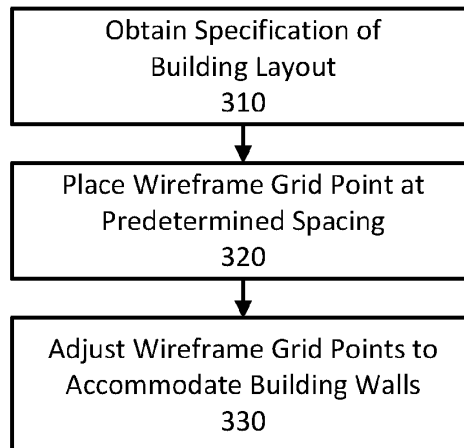
300

FIGURE 4

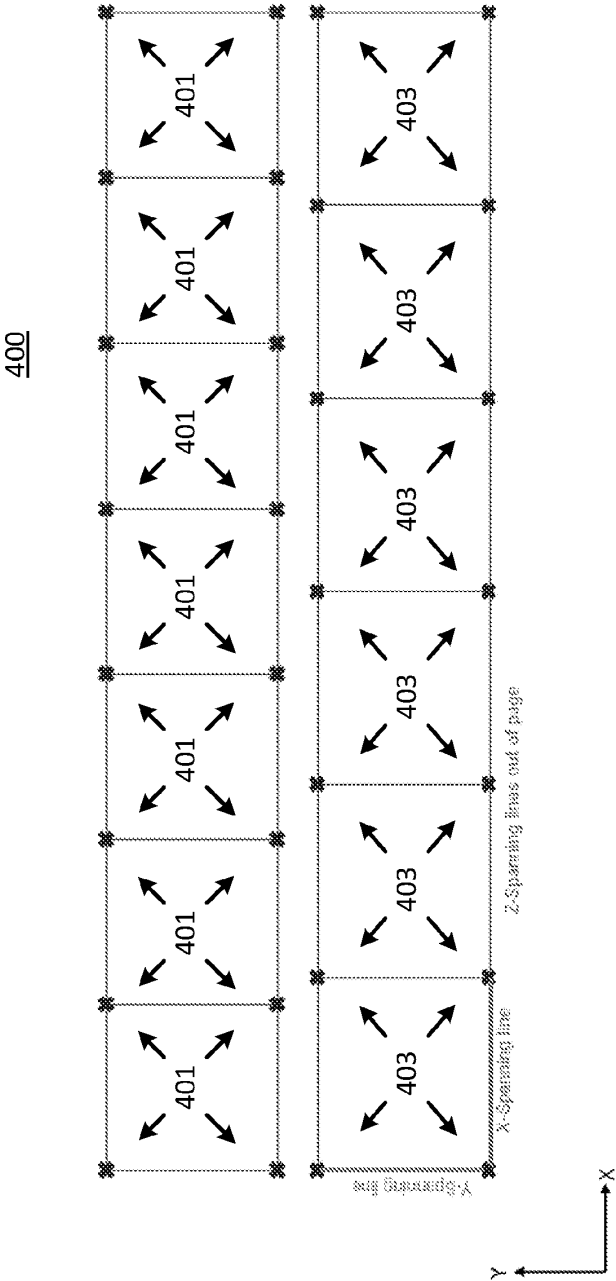


FIGURE 5

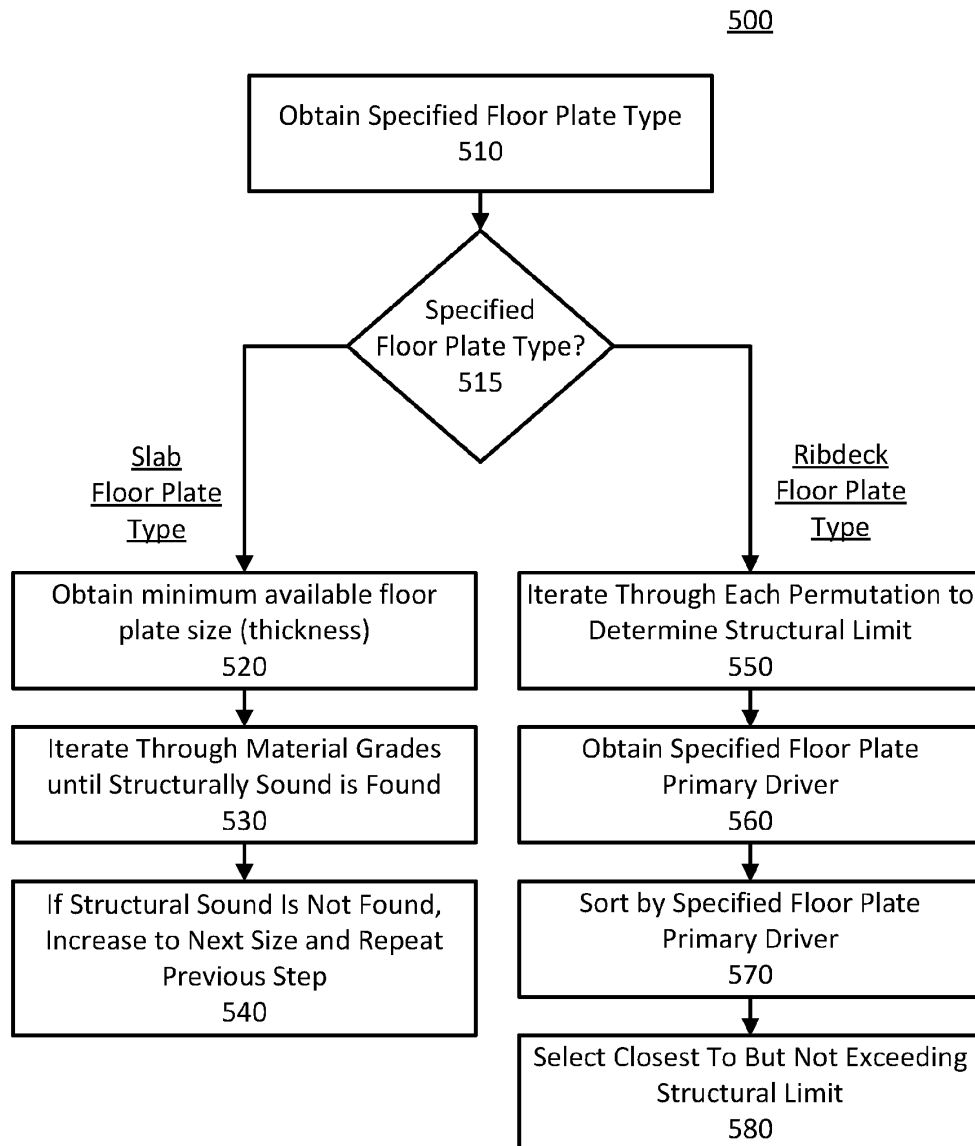


FIGURE 6

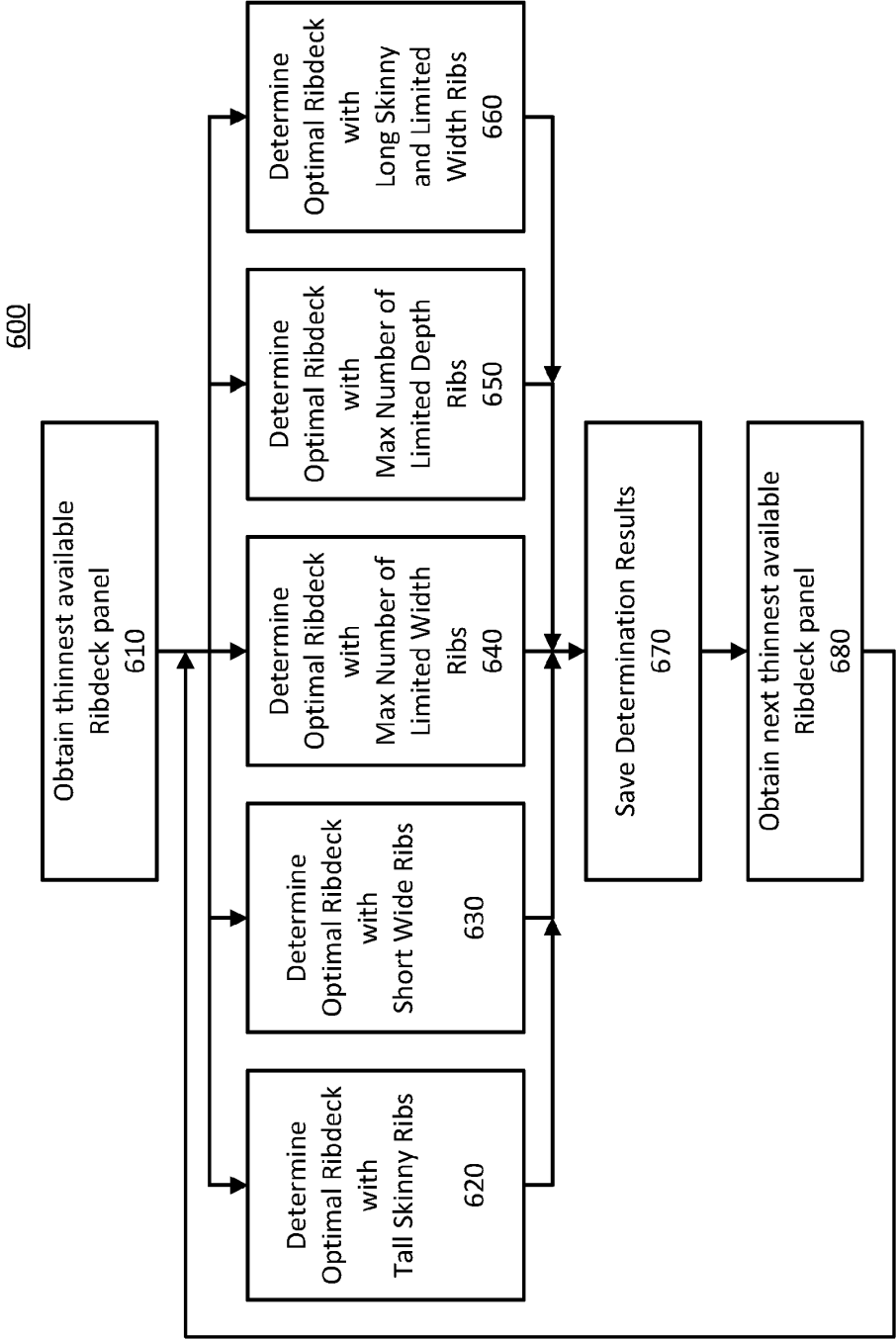


FIGURE 7

700

Solution	CLTslab	No. ribs	System depth (m)	Rib spacing (Center-Center) (m)	Rib clear spacing (m)	Rib depth (m)	Rib width (m)	Val. Material (m3)	Utilisation (%)	Centroid check
1	120 L3s	1	0.48	1.125	1.005	0.36	0.12	2.987345	96.90065	Yes
1	120 L5s	1	0.44	1.125	1.005	0.32	0.12	2.906878	94.96607	Yes
1	140 L5s	1	0.46	1.125	1.005	0.32	0.12	3.284068	96.25261	Yes
2	100 L5s	1	0.38	1.125	0.905	0.28	0.22	2.918612	99.9124	Yes
2	120 L3s	1	0.4	1.125	0.905	0.28	0.22	3.295802	98.74012	Yes
2	120 L5s	1	0.36	1.125	0.845	0.24	0.28	3.389681	96.74972	Yes
3	100 L5s	3	0.38	0.5625	0.4425	0.28	0.12	3.012491	92.36763	Yes
3	120 L3s	4	0.36	0.45	0.33	0.24	0.12	3.470148	96.54592	Yes
3	120 L5s	3	0.36	0.5625	0.4425	0.24	0.12	3.228746	97.09107	Yes
4	100 L5s	4	0.34	0.45	0.31	0.24	0.16	3.294126	94.74099	Yes
4	120 L3s	4	0.36	0.45	0.33	0.24	0.12	3.470148	96.54592	Yes
4	120 L5s	3	0.32	0.5625	0.3625	0.2	0.2	3.60426	99.71443	Yes
5	100 L5s	1	0.46	1.125	1.005	0.36	0.12	2.610155	95.54162	Yes
5	120 L3s	1	0.48	1.125	1.005	0.36	0.12	2.987345	96.90065	Yes
5	160 L5s	1	0.52	1.125	1.005	0.36	0.12	3.741725	78.17672	Yes

FIGURE 8

800

Solution	CLTslab	No. ribs	System depth {m}	Rib spacing {Center-Center} {m}	Rib clear spacing {m}	Rib depth {m}	Rib width {m}	Vol. Material {m3}	Utilisation (%)	Centroid check
5 100 L5s		1	0.46	1.125	1.005	0.36	0.12	2.610155	95.54162	Yes
1 120 L5s		1	0.44	1.125	1.005	0.32	0.12	2.906878	94.96607	Yes
2 100 L5s		1	0.38	1.125	0.905	0.28	0.22	2.918612	99.9124	Yes
1 120 L3s		1	0.48	1.125	1.005	0.36	0.12	2.987345	96.90065	Yes
5 120 L3s		1	0.48	1.125	1.005	0.36	0.12	2.987345	96.90065	Yes
3 100 L5s		3	0.38	0.5625	0.4425	0.28	0.12	3.012491	92.36763	Yes
3 120 L5s		3	0.36	0.5625	0.4425	0.24	0.12	3.228746	97.09107	Yes
1 140 L5s		1	0.46	1.125	1.005	0.32	0.12	3.284068	96.25261	Yes
4 100 L5s		4	0.34	0.45	0.31	0.24	0.14	3.294126	94.74099	Yes
2 120 L3s		1	0.4	1.125	0.905	0.28	0.22	3.295802	98.74012	Yes
2 120 L5s		1	0.36	1.125	0.845	0.24	0.28	3.386681	96.74972	Yes
3 120 L3s		4	0.36	0.45	0.33	0.24	0.12	3.470148	96.54592	Yes
4 120 L3s		4	0.36	0.45	0.33	0.24	0.12	3.470148	96.54592	Yes
4 120 L5s		3	0.32	0.5625	0.3625	0.2	0.2	3.60426	99.71443	Yes
5 160 L5s		1	0.52	1.125	1.005	0.36	0.12	3.741725	78.17672	Yes