

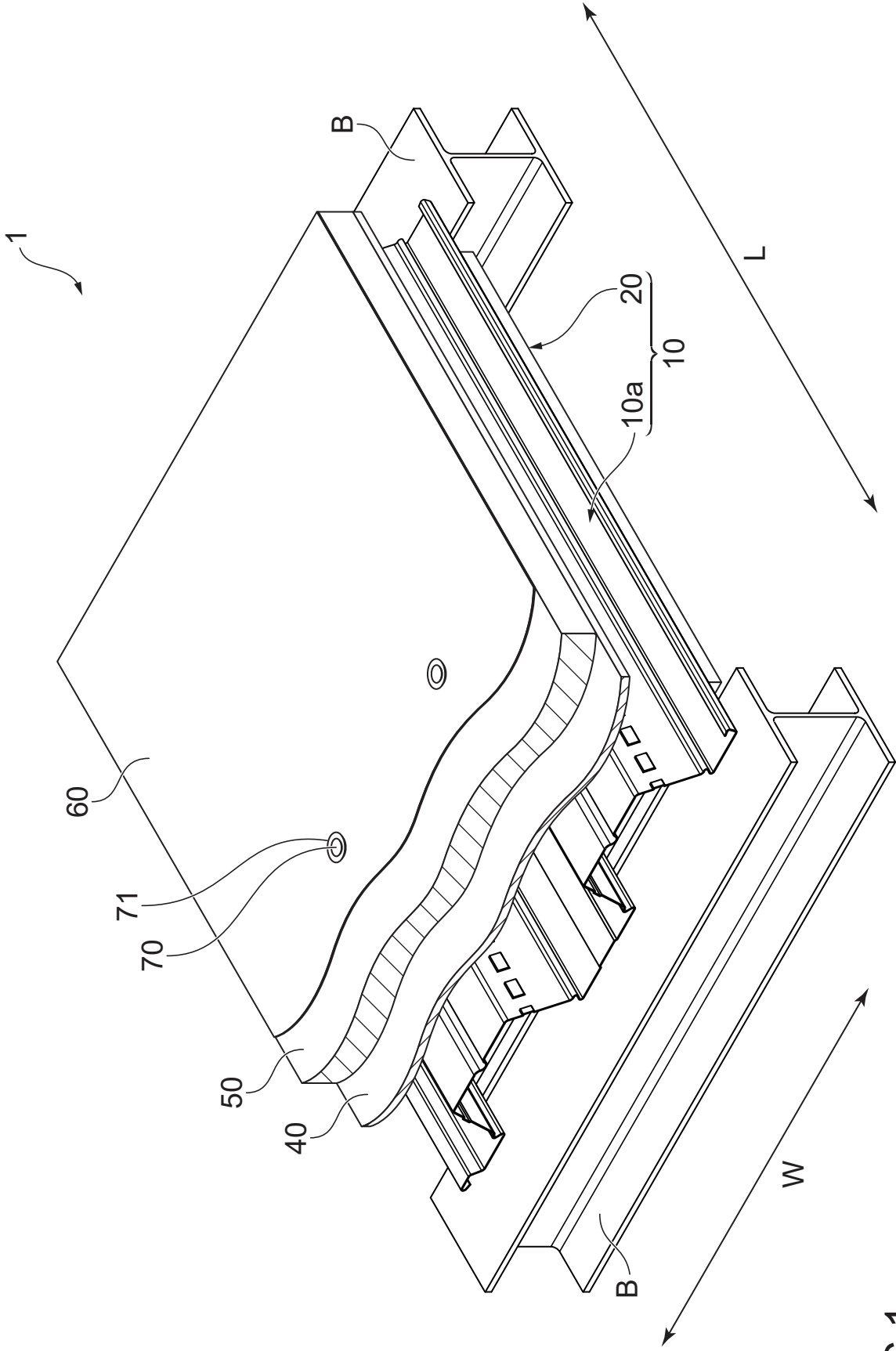


FIG.1

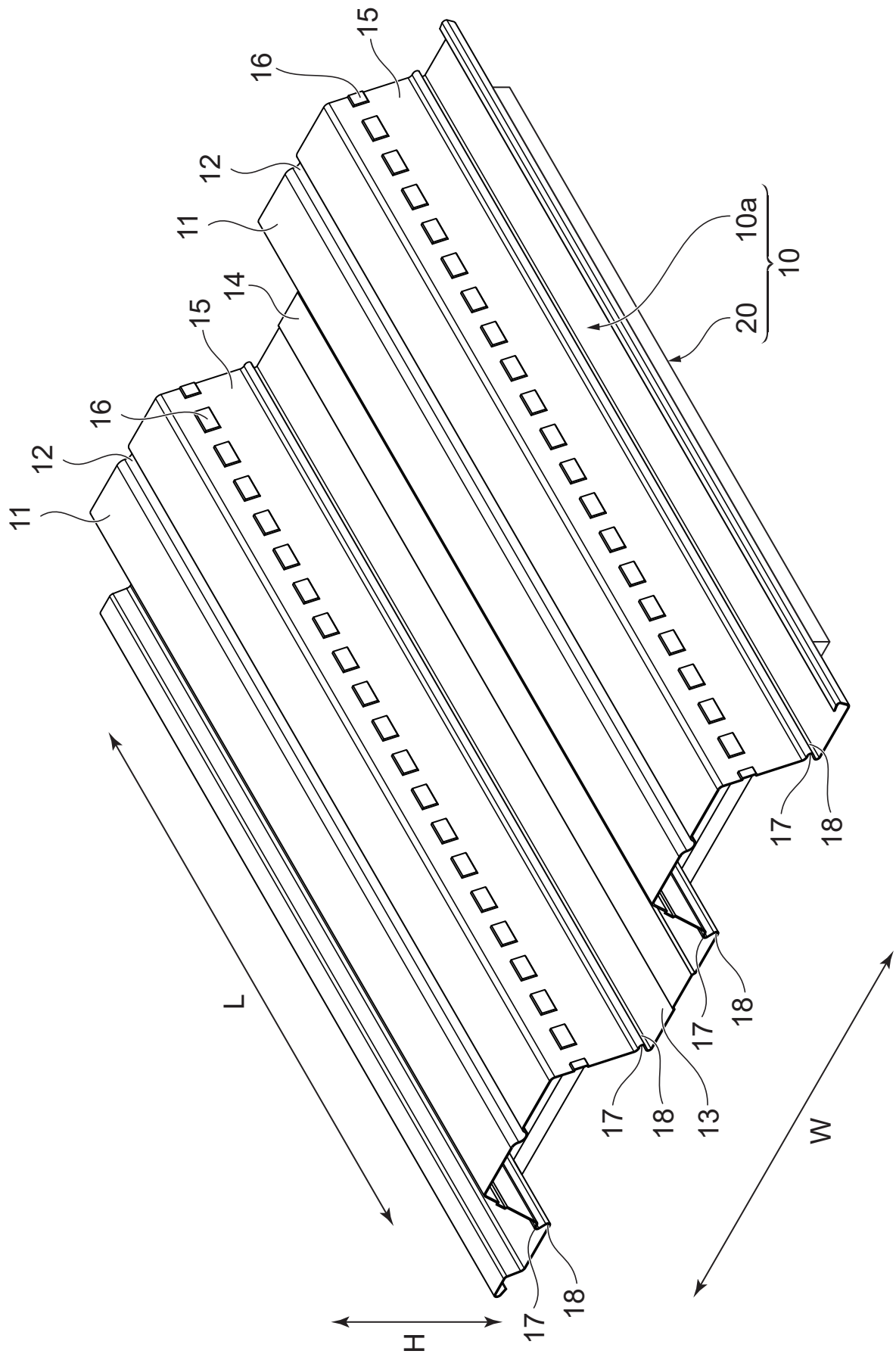


FIG. 2

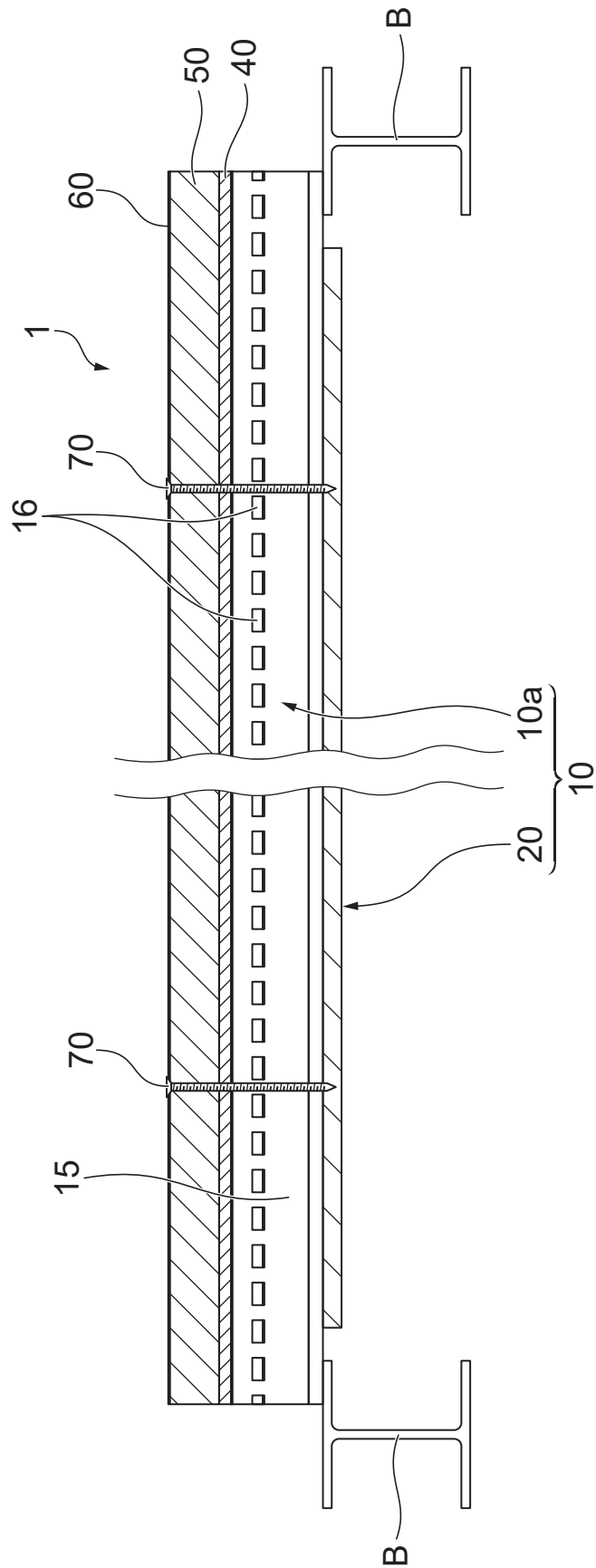


FIG.3

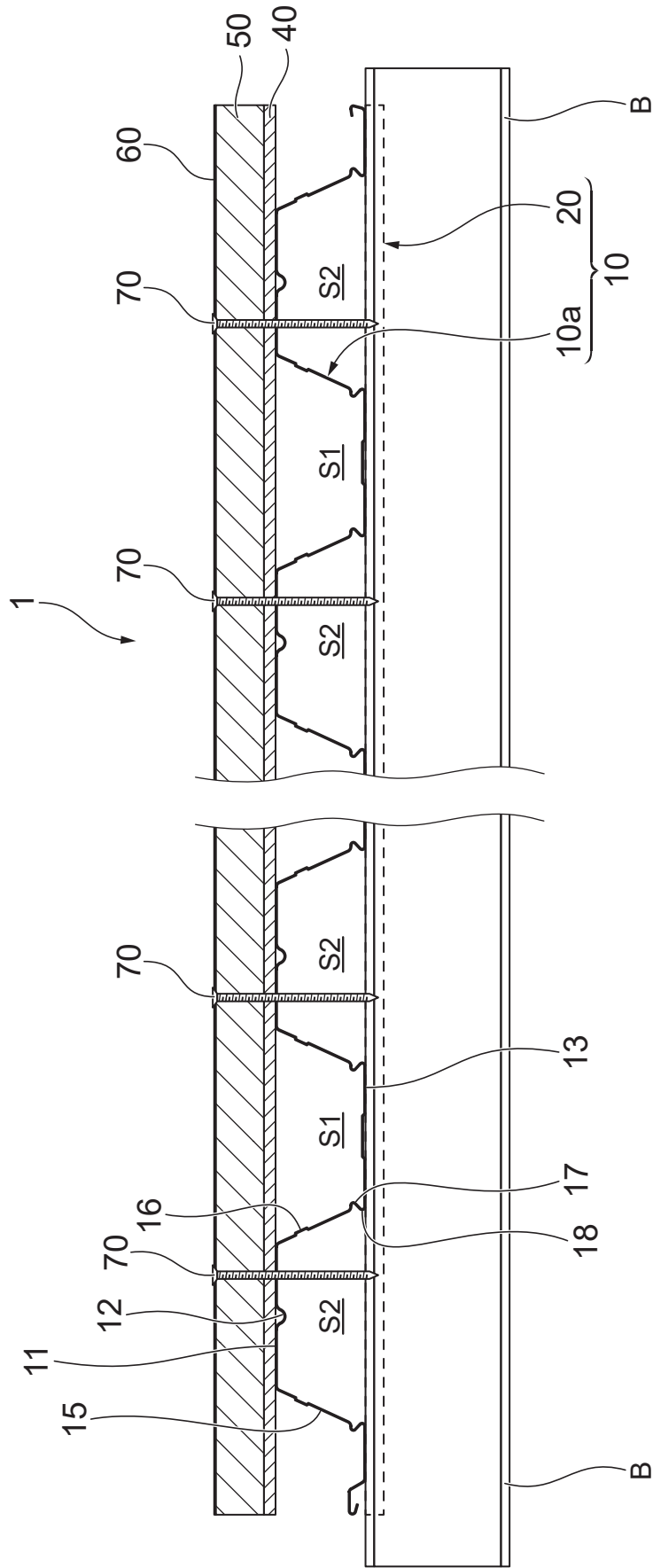


FIG. 4

FIRE-RESISTANT TIME(min)	THICKNESS OF WOODEN PART(mm)	CALCULATION FORMULA OF WOODEN PART	REMARKS
30	19.5	30min*0.65mm/min	FIRE-RESISTANT PERFORMANCE IMPROVEMENT OF 30 MINUTES
30~60	19.5~39.0	30~60min*0.65mm/min	FIRE-RESISTANT PERFORMANCE IMPROVEMENT OF 30 TO 60 MINUTES
60~120	39.0~78.0	60~120min*0.65mm/min	FIRE-RESISTANT PERFORMANCE IMPROVEMENT OF 60 TO 120 MINUTES
120~180	78.0~117.0	120~180min*0.65mm/min	FIRE-RESISTANT PERFORMANCE IMPROVEMENT OF 120 TO 180 MINUTES

FIG.5

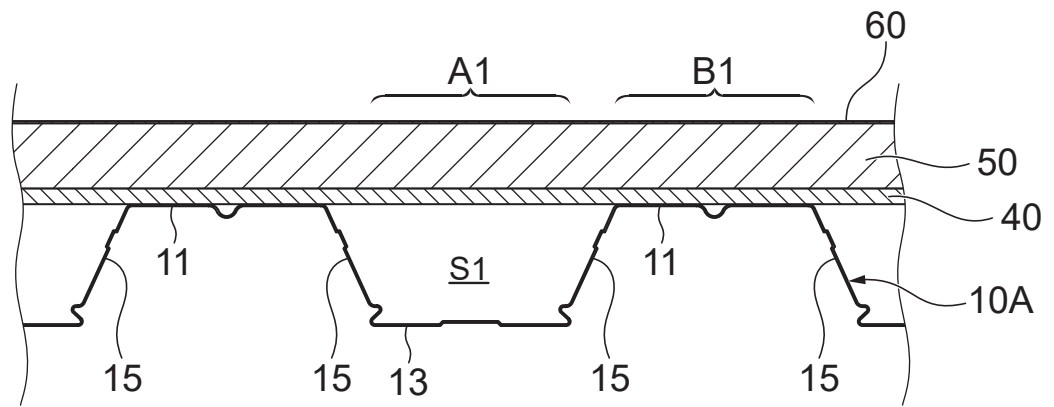


FIG. 6A

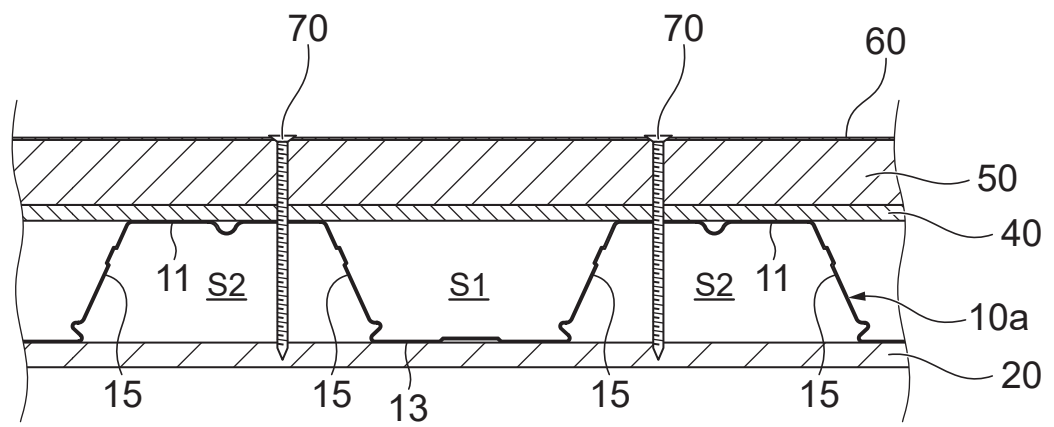


FIG.6B

	THERMAL CONDUCTIVITY (W/m · K)	THICKNESS (mm)	THERMAL RESISTANCE R	
			A1	B1
R ₀ : EXTERNAL SIDE THERMAL RESISTANCE			0.04	
R ₁ : POLYVINYL CHLORIDE SHEET	0.16	1.5	0.009	
R ₂ : HEAT INSULATION MATERIAL	0.038	50	2.5	
R ₃ : DECK PLATE	53	1.2	0	
R ₄ : AIR LAYER			0.09	—
—				
R _i : INTERIOR SIDE THERMAL RESISTANCE			0.09	
TOTAL			2.729	2.639

FIG.7A

	THERMAL CONDUCTIVITY (W/m · K)	THICKNESS (mm)	THERMAL RESISTANCE R (m ² K/W)
R ₀ : EXTERNAL SIDE THERMAL RESISTANCE			0.04
R ₁ : POLYVINYL CHLORIDE SHEET	0.16	1.5	0.009
R ₂ : HEAT INSULATION MATERIAL	0.038	50	2.5
R ₃ : DECK PLATE	53	1.2	0
R ₄ : AIR LAYER			0.09
R ₅ : WOODEN BOARD (JAPANESE CEDAR)	0.12	25	0.208
R _i : INTERIOR SIDE THERMAL RESISTANCE			0.09
TOTAL			2.937

FIG.7B

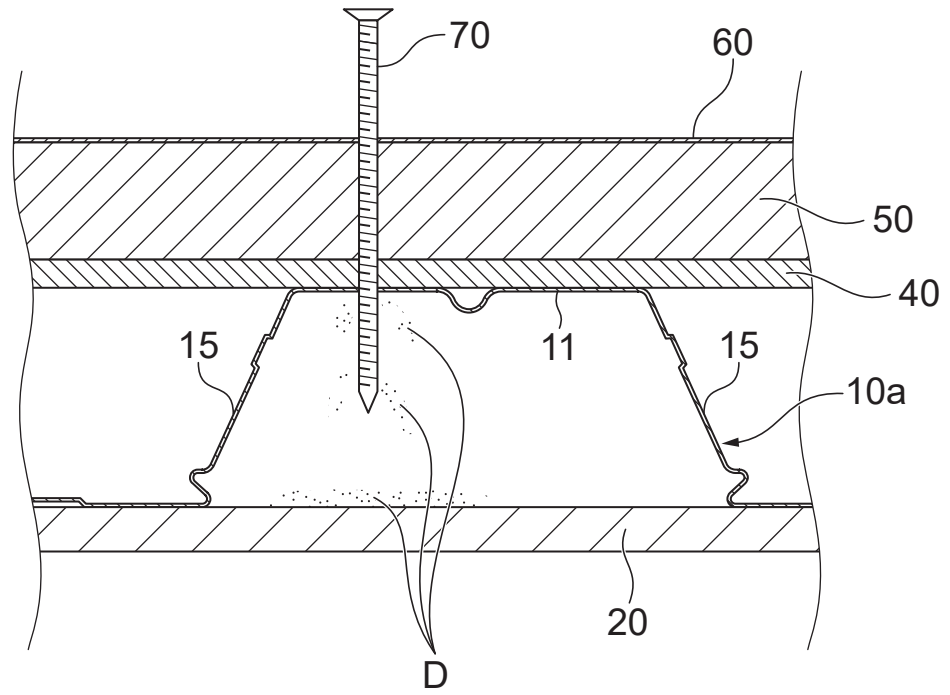


FIG.8

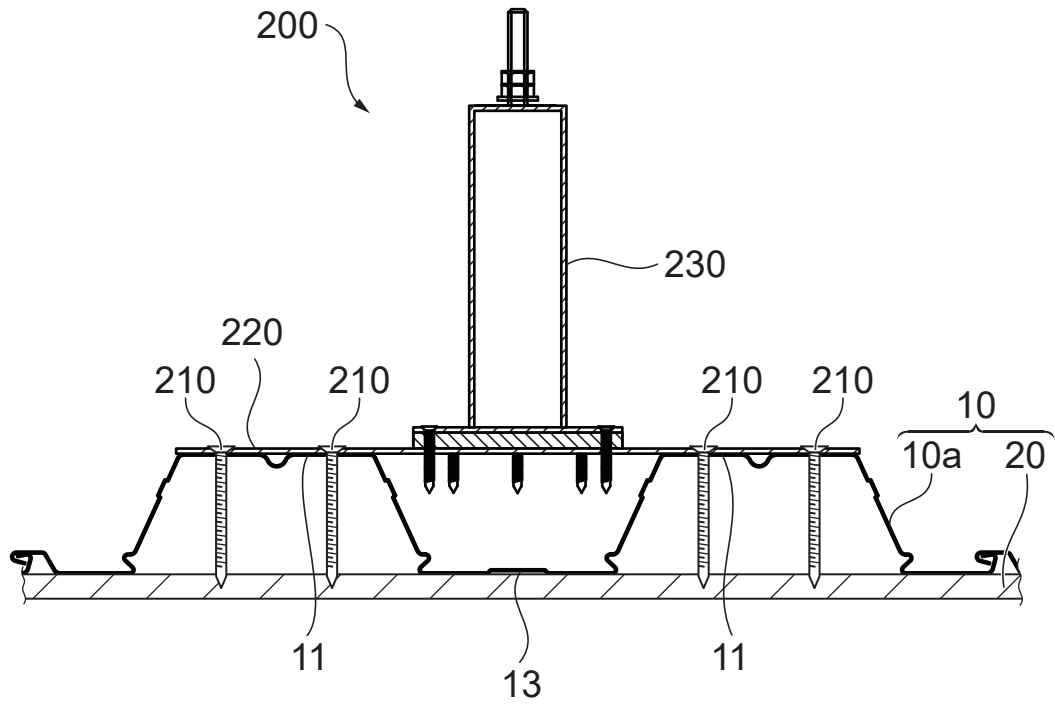


FIG.9

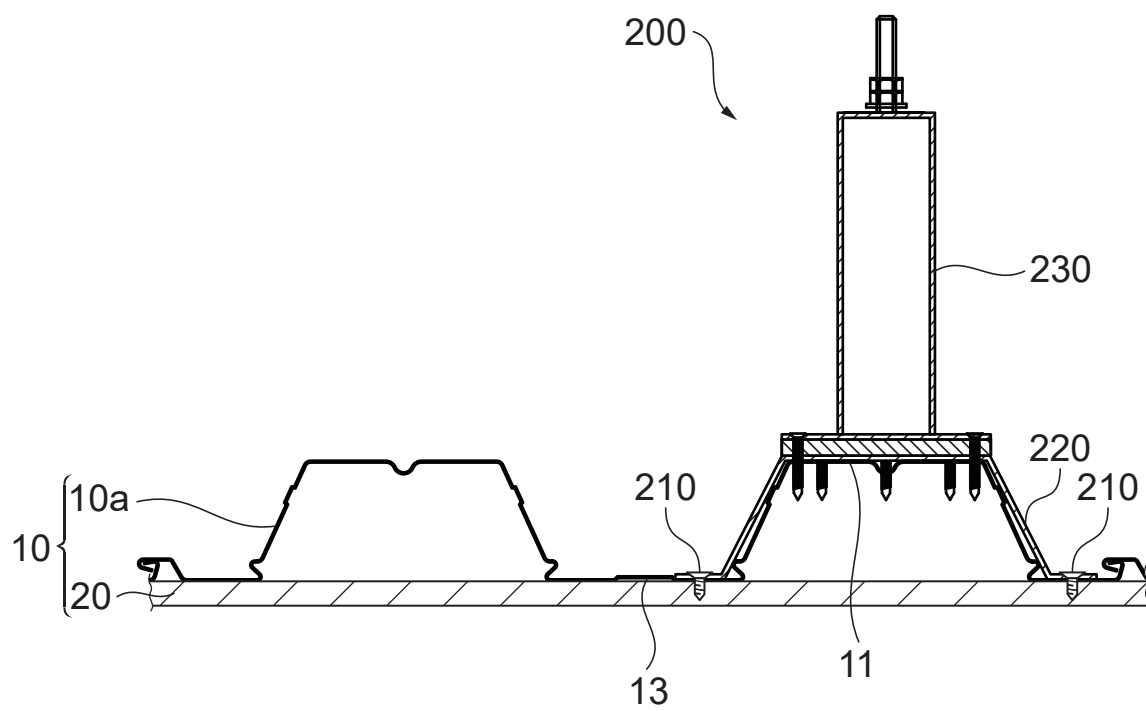


FIG.10