

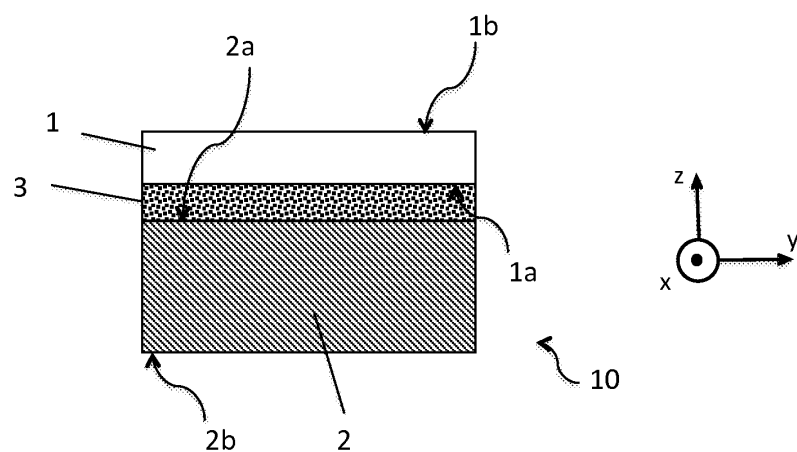


FIG.1

Matériau	Vitesse acoustique onde longitudinale (VL) (m/s)	Densité ρ (g/cm ³)	Impédance acoustique (x1E6) (kg/(m ² .s))	Resistivité (ohm.cm)	Permittivité
SiO ₂	6000	2,2	13,20	1,00E+17	3,9
Si	8430	2,34	19,70	250000	11,7
Ge	5410	5,47	29,60		
Si ₃ N ₄	9900	2,20	21,78	1e10 - 1e15	9.5-10.5
SiC	13000	13,80	91,80	1E2-1E6	
Al ₂ O ₃	10520	3,86	40,60	>1E14	9,8
Sapphire, aluminium oxide	11100	3,99	44,30		
Zirconium	4650	6,48	30,10		

TAB.1a

Matériau	Vitesse acoustique onde longitudinale (VL) (m/s)	Densité ρ (g/cm ³)	Impédance acoustique (x1E6) (kg/(m ² .s))
AlN	11000	3,27	36,00
LTO	6000	7,46	44,76
LNO	7000	4,64	32,48

TAB.1b

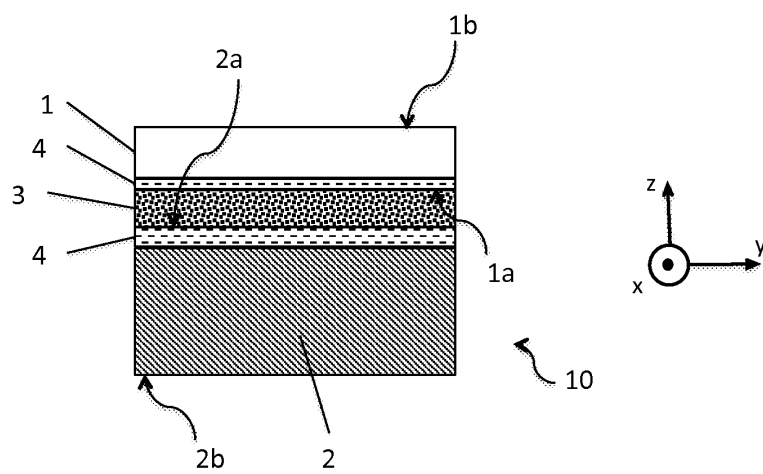


FIG.2a

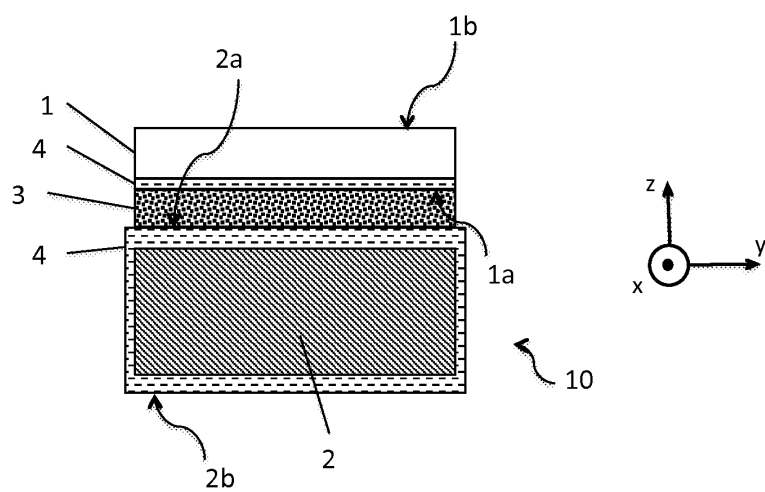


FIG.2b

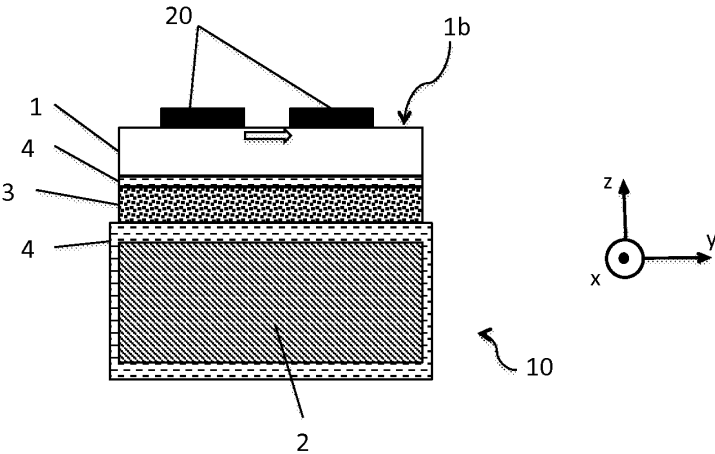


FIG.3

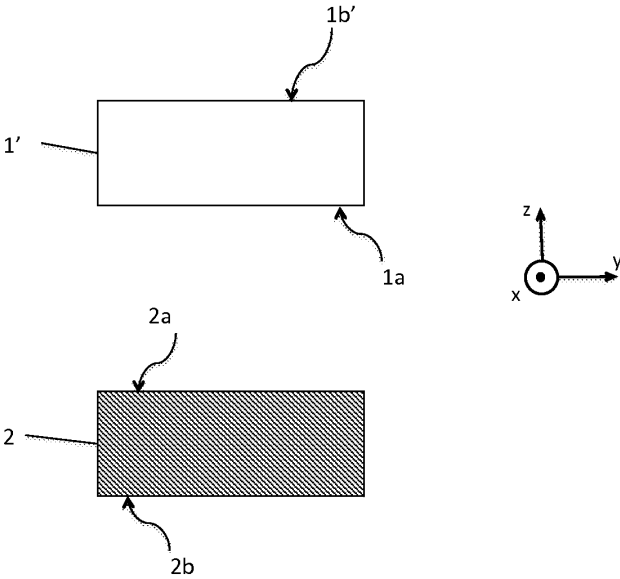


FIG.4a

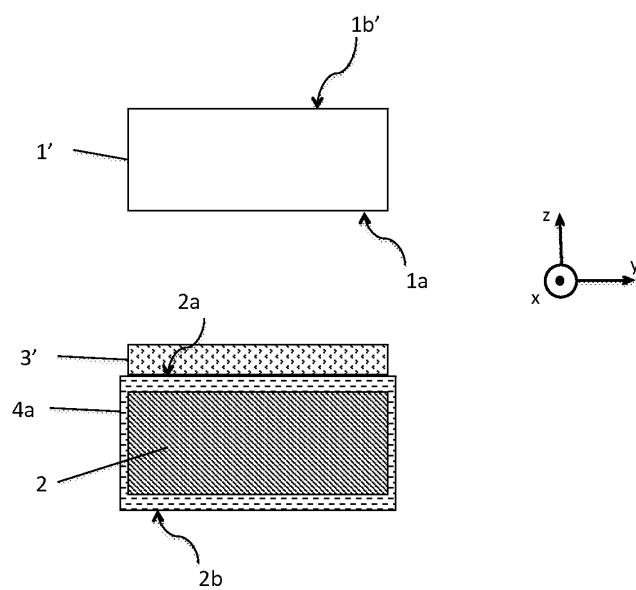


FIG. 4b

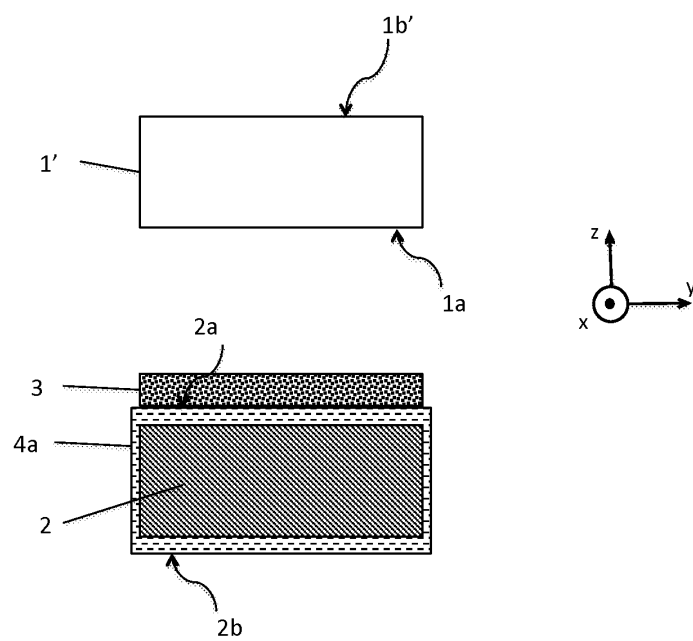


FIG. 4c

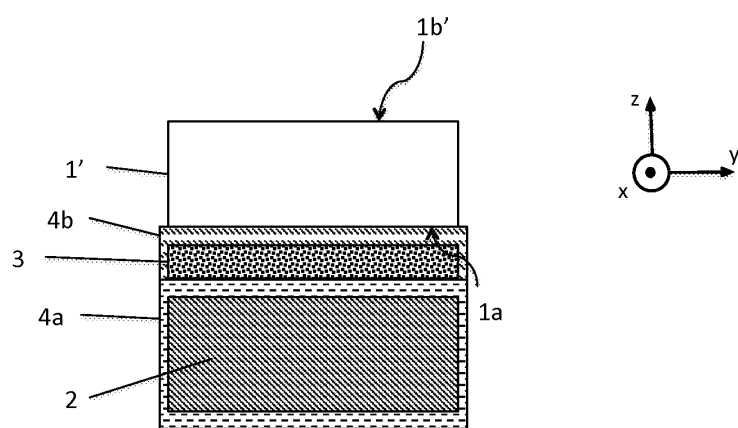


FIG. 4d

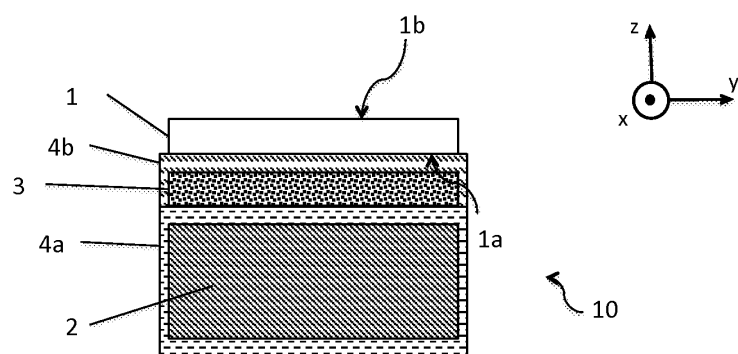


FIG. 4e