

FIG.1

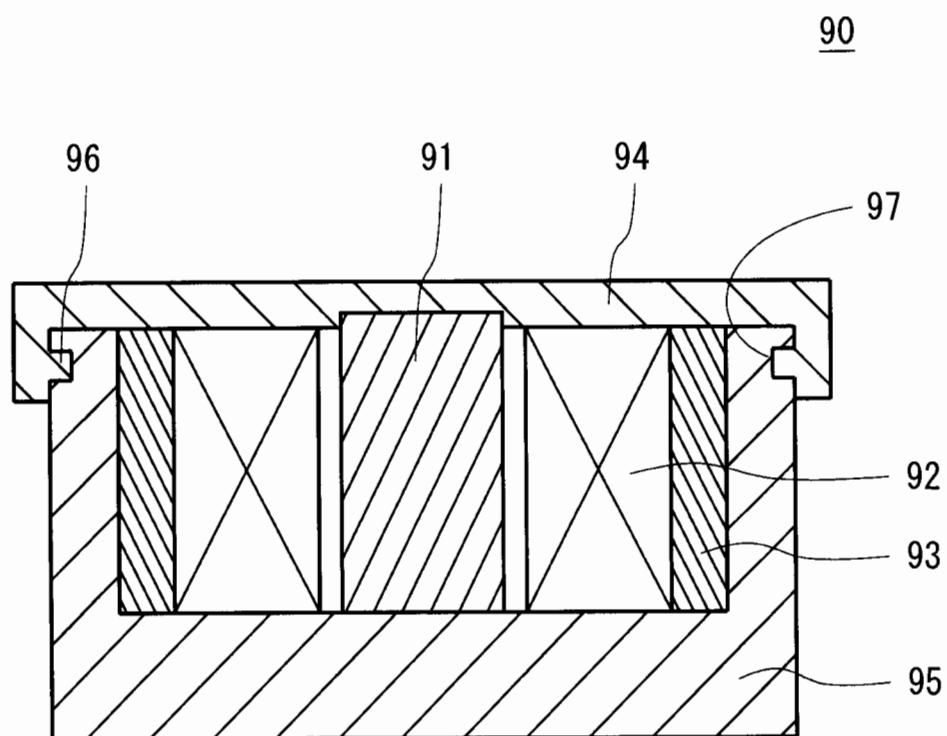


FIG.2

	SUPER MAGNETOSTRICTIVE MATERIAL	PIEZOELECTRIC MATERIAL (PZT)
DISPLACEMENT	LARGE ($\sim 2000\text{ppm}$)	SMALL ($\sim \text{SEVERAL HUNDRED ppm}$)
STRESS GENERATED	LARGE ($300\sim 400\text{kgf/cm}^2$)	SMALL (150kgf/cm^2)
RESPONSE SPEED	HIGH ($10^{-9}\sim 10^{-6}\text{s}$)	LOW ($\sim 10^{-3}\text{s}$)
DRIVE VOLTAGE	LOW ($\sim 10\text{V}$)	HIGH (100V OR HIGHER)
DRIVING SCHEME	NON-CONTACT WITH POWER SOURCE	CONTACT WITH POWER SOURCE
COUPLING COEFFICIENT	LARGE (70 $\sim$ 80%)	SMALL (60%)
CURIE POINT	HIGH (380°C)	LOW (145°C)

FIG.3A

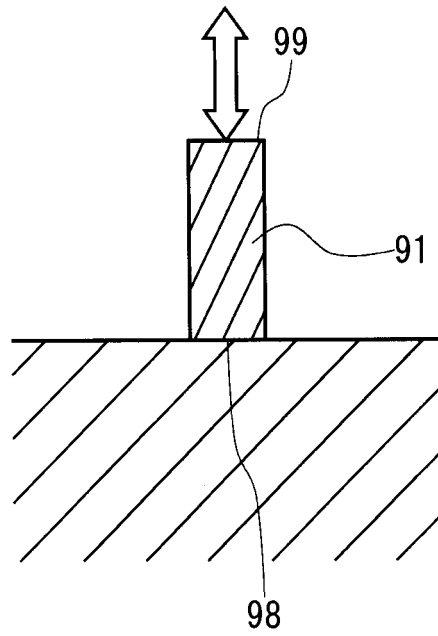


FIG.3B

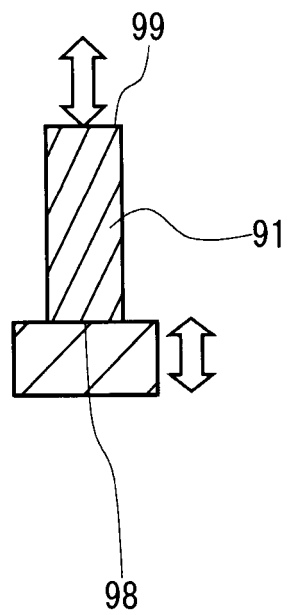
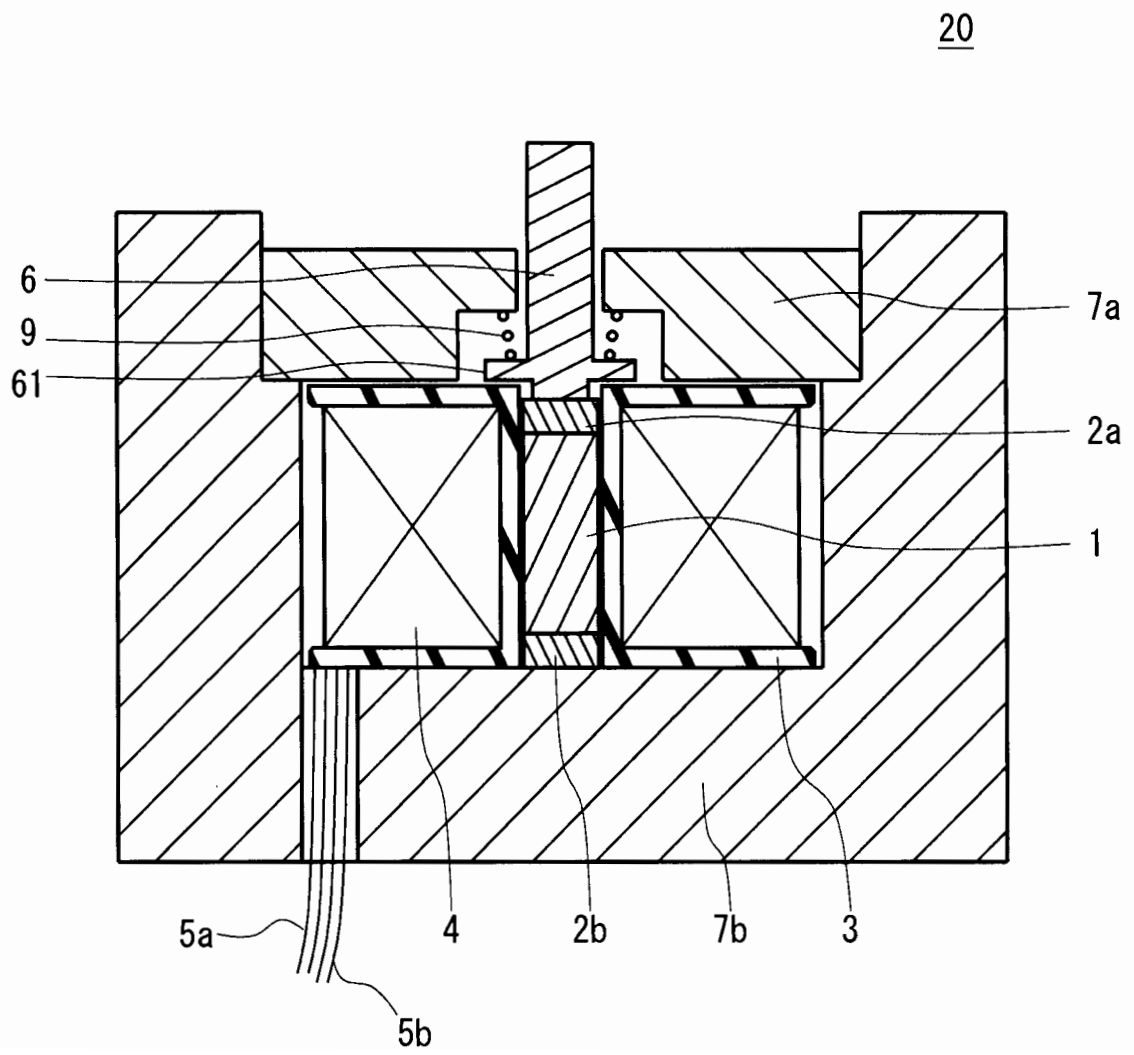


FIG.4



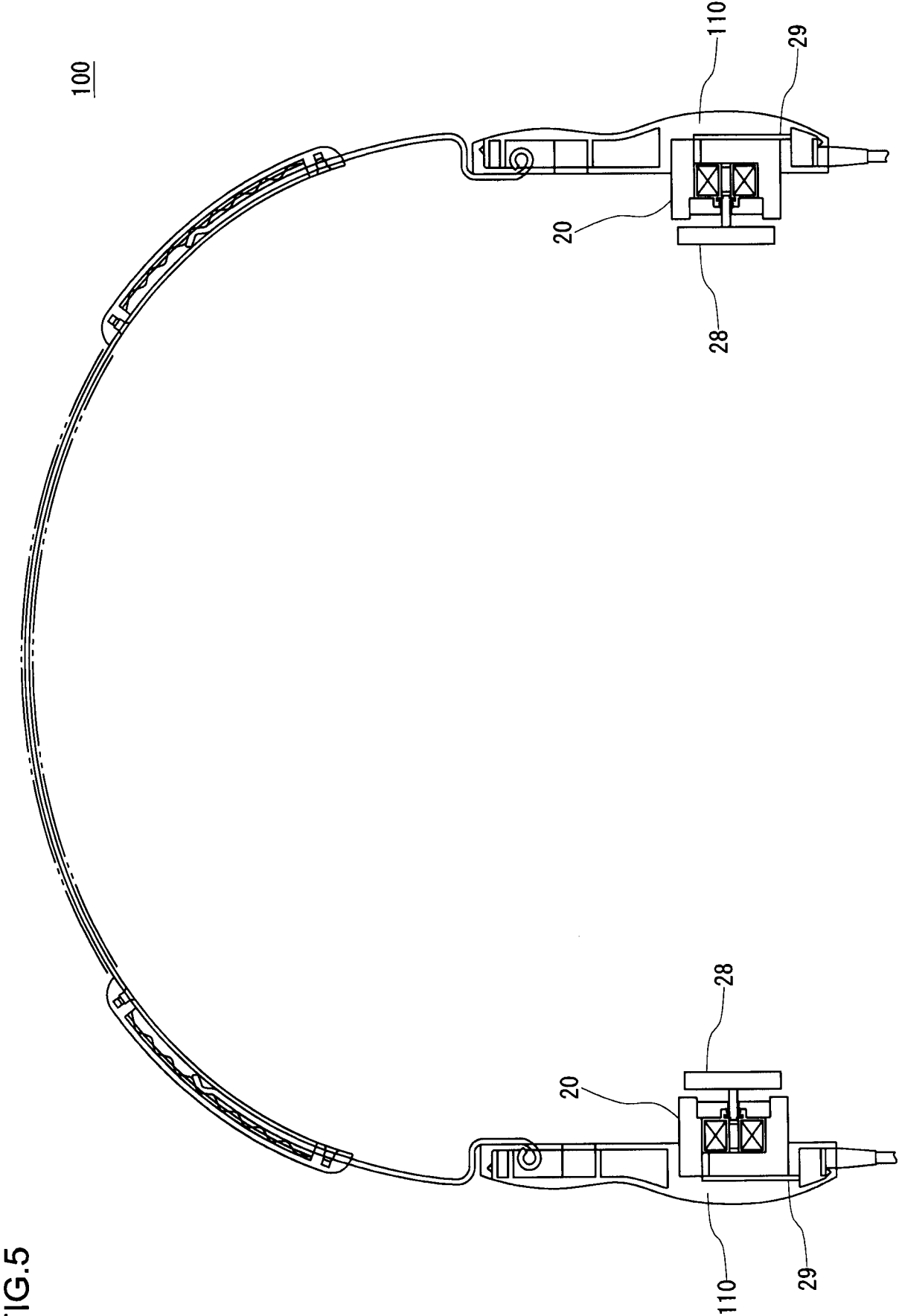


FIG.6

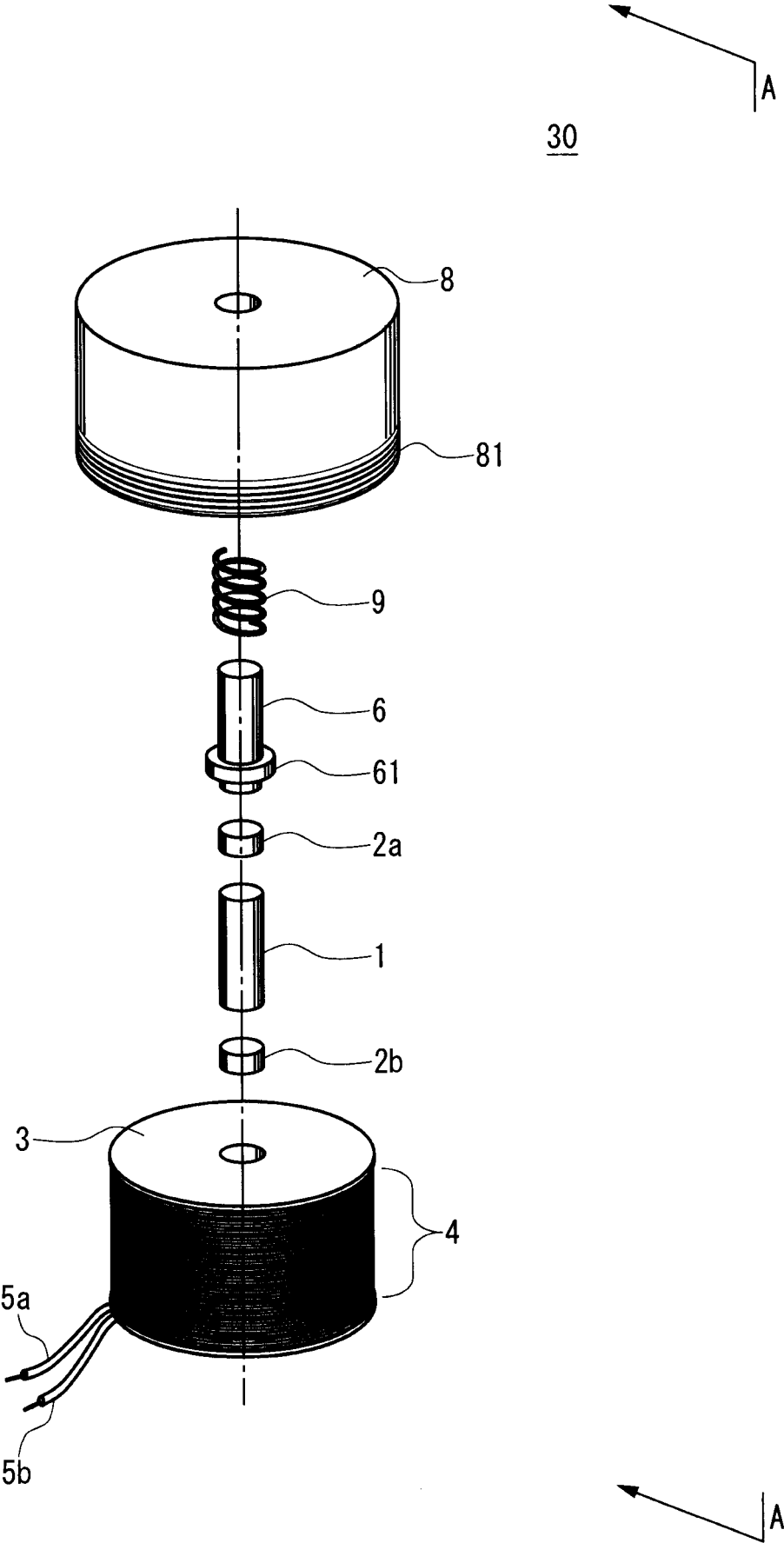


FIG.7

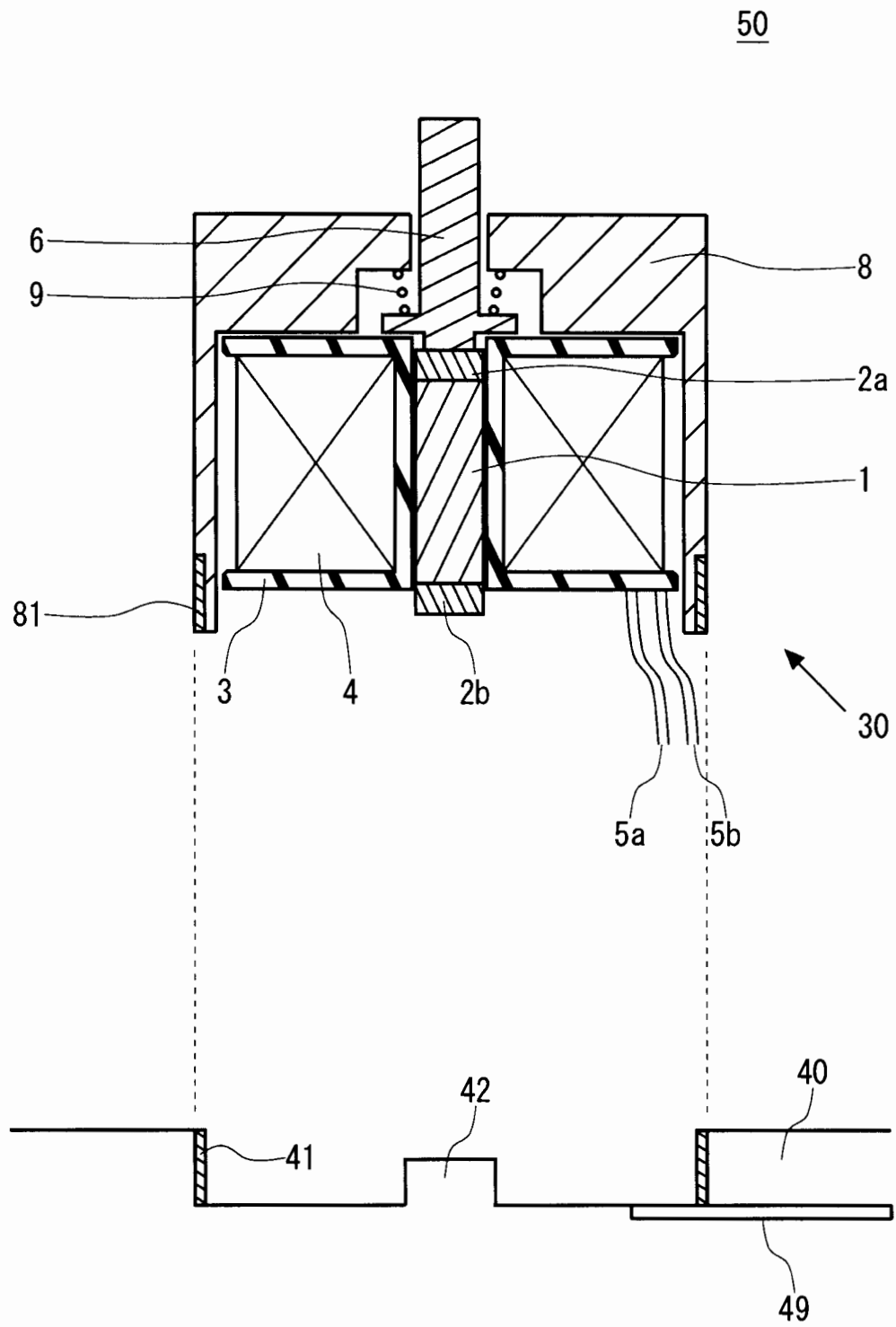


FIG.8

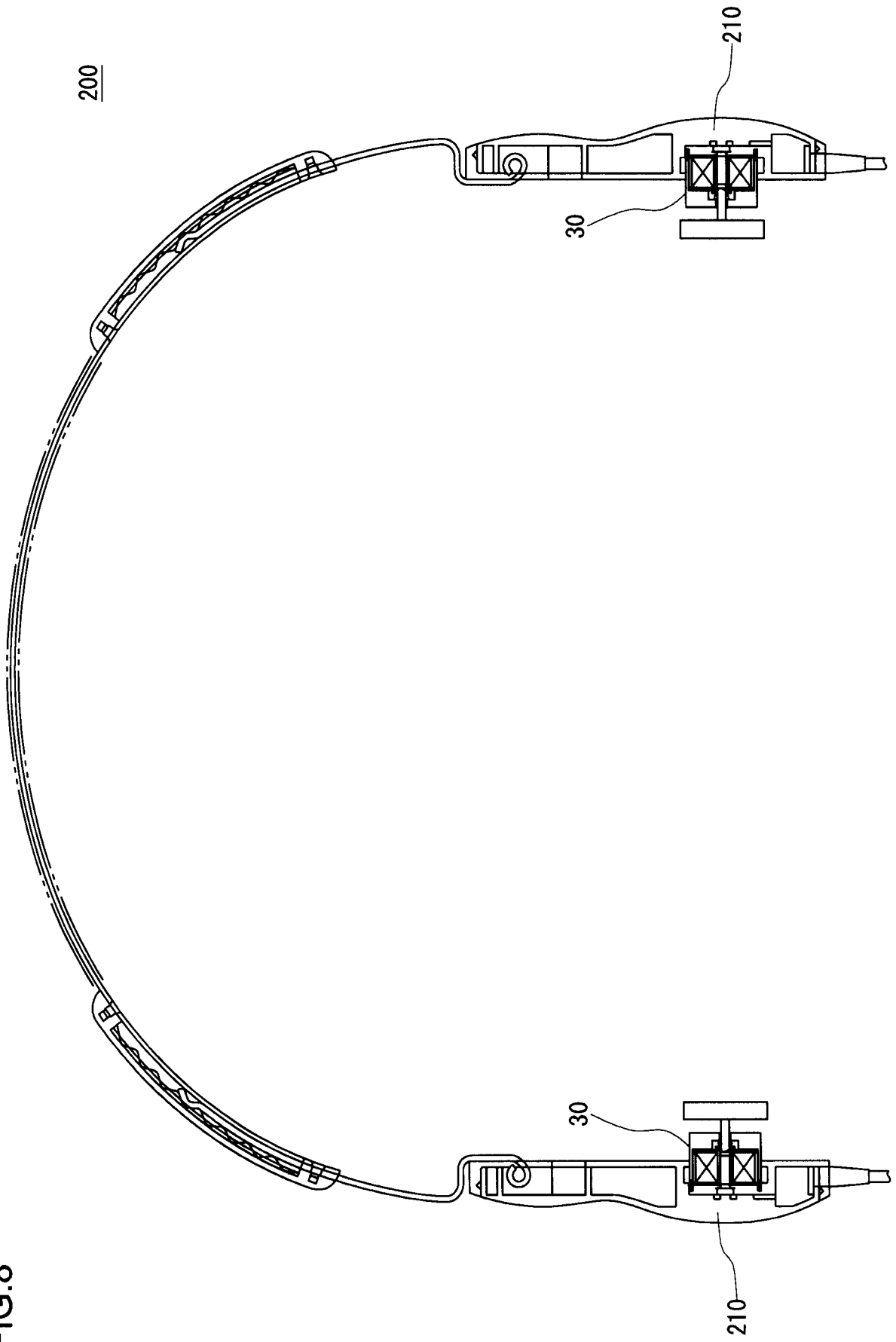


FIG.9

