

Fig. 1

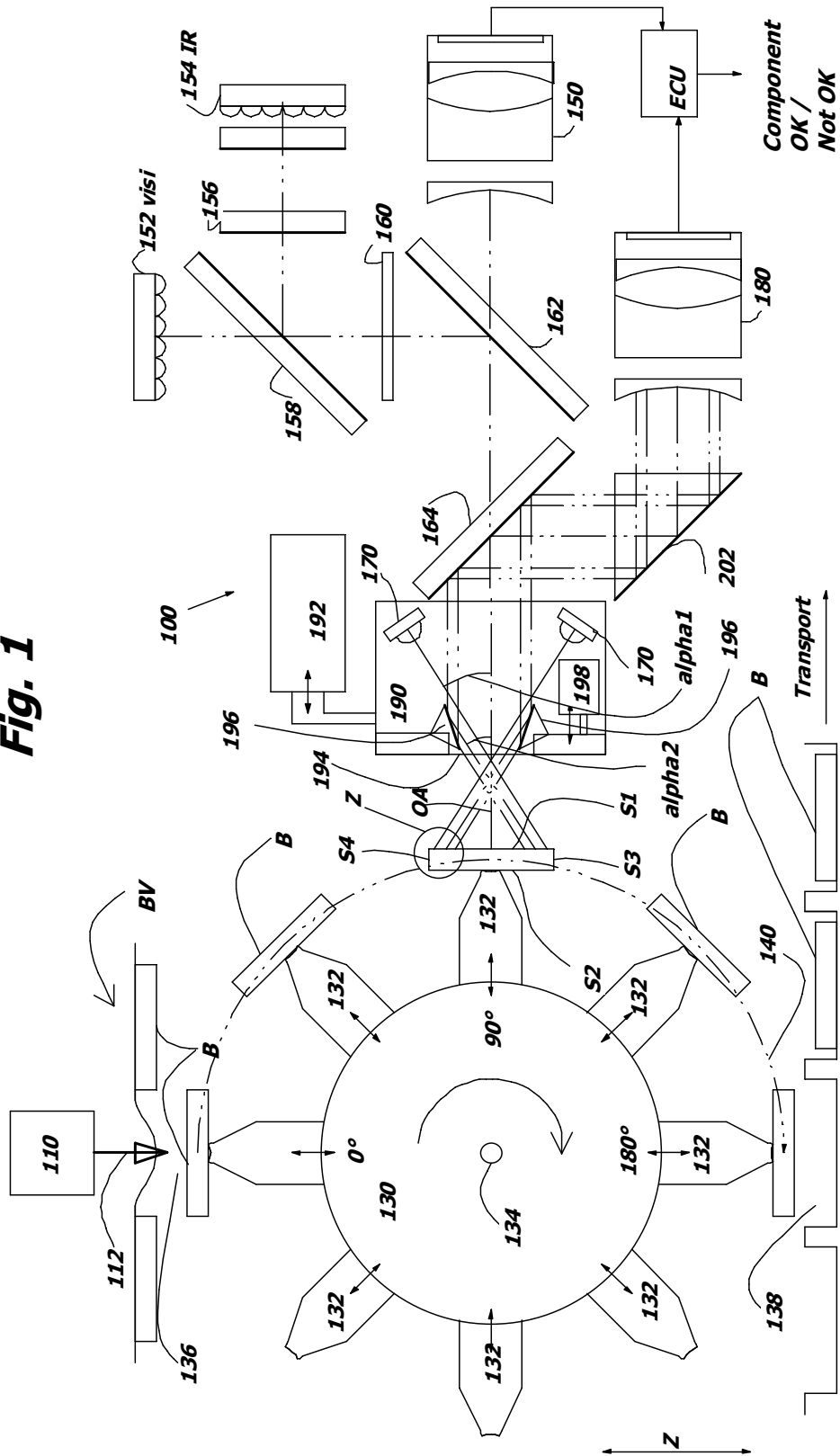


Fig. 2

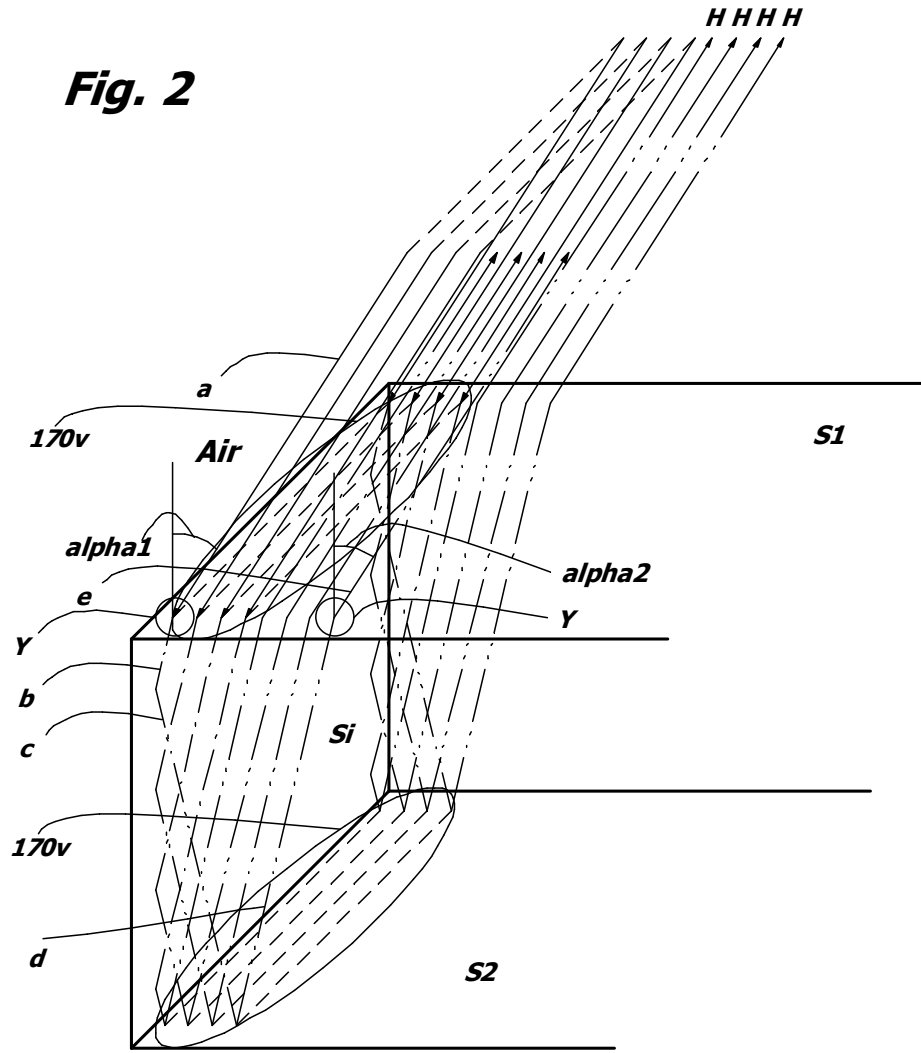


Fig. 2a

Si- Material

Light: infrared ca. 900 nm

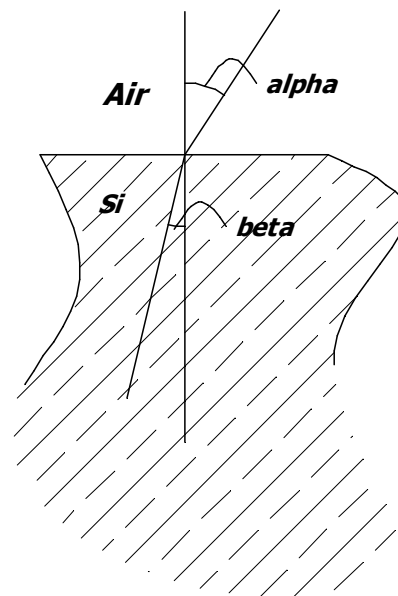
Temperature: ca. 300 K

Refraction index n : ca. 3.6

$$\text{beta} = \arcsin (\sin(\text{alpha})/n)$$

alpha: ca. -45 ° ... +45 °, e.g. approx. 33°

beta: ca. $-11.2^\circ \dots +11.2^\circ$, e.g. approx. 8.7°



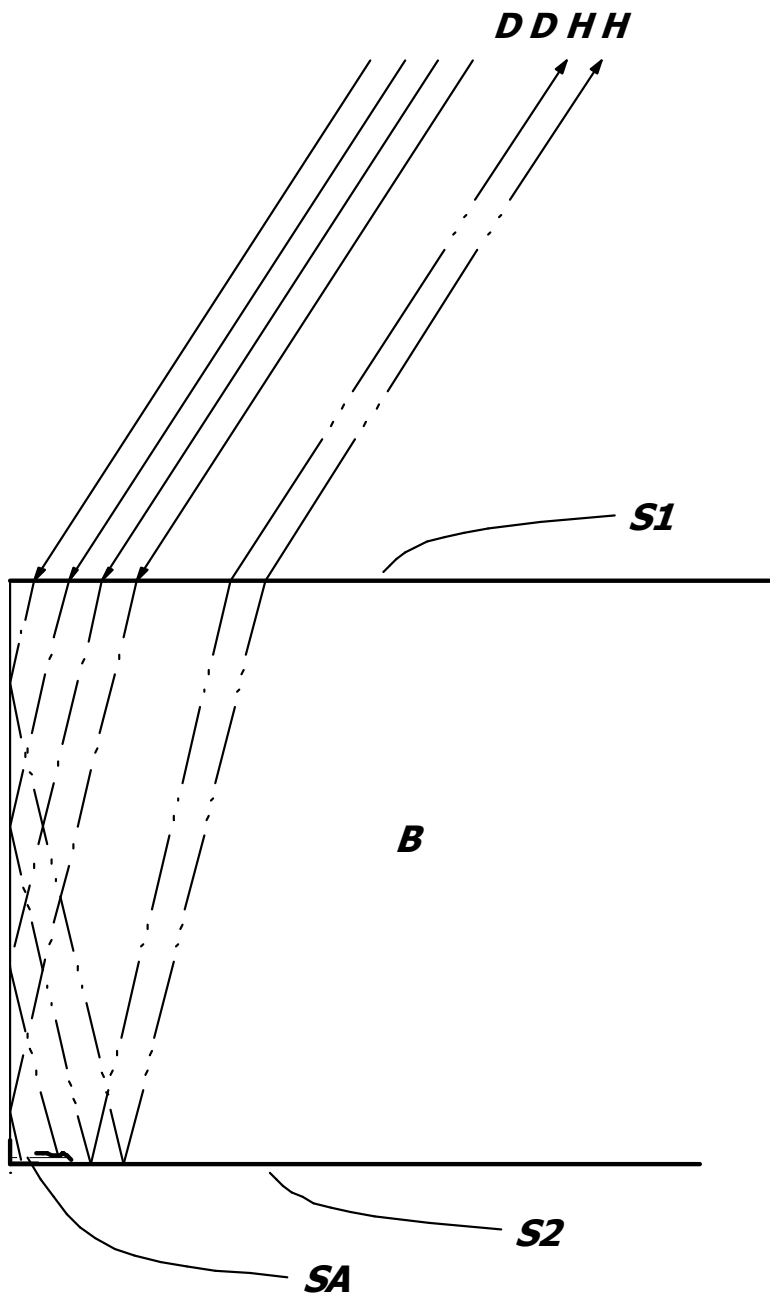
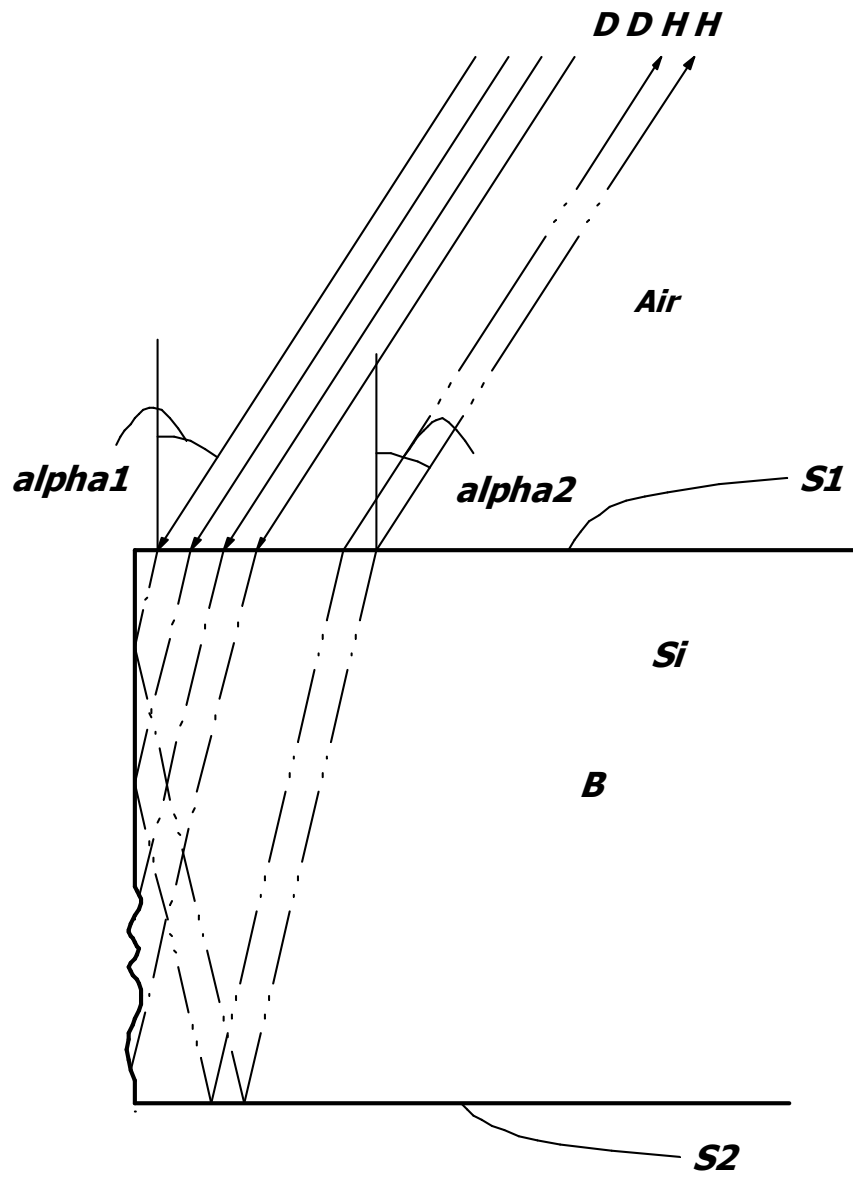


Fig. 3

**Fig. 4**