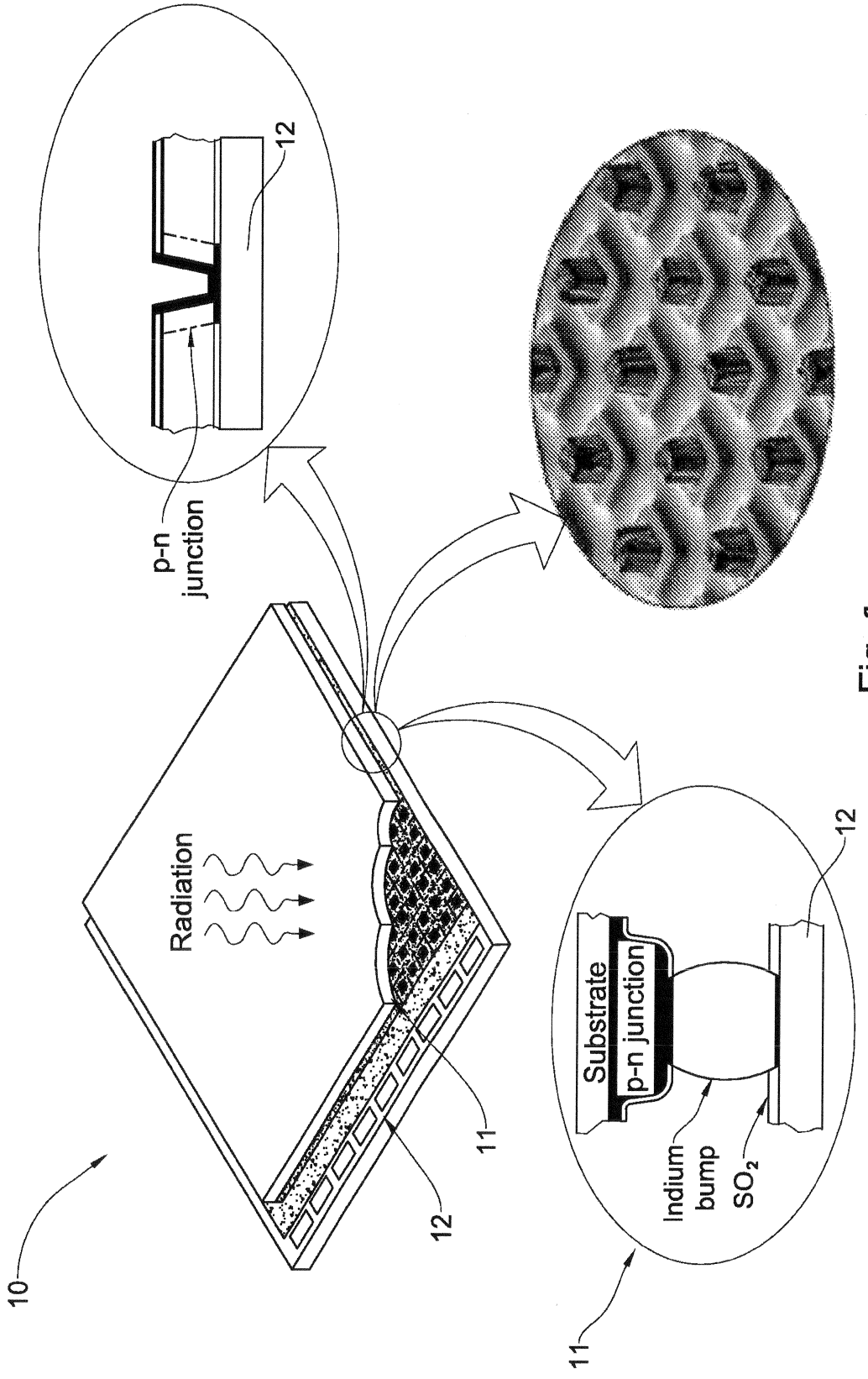

10
Radiation
12
11
12
p-n
junction
11
Substrate
p-n junction
Indium
bump
SO_2
12

Fig. 1

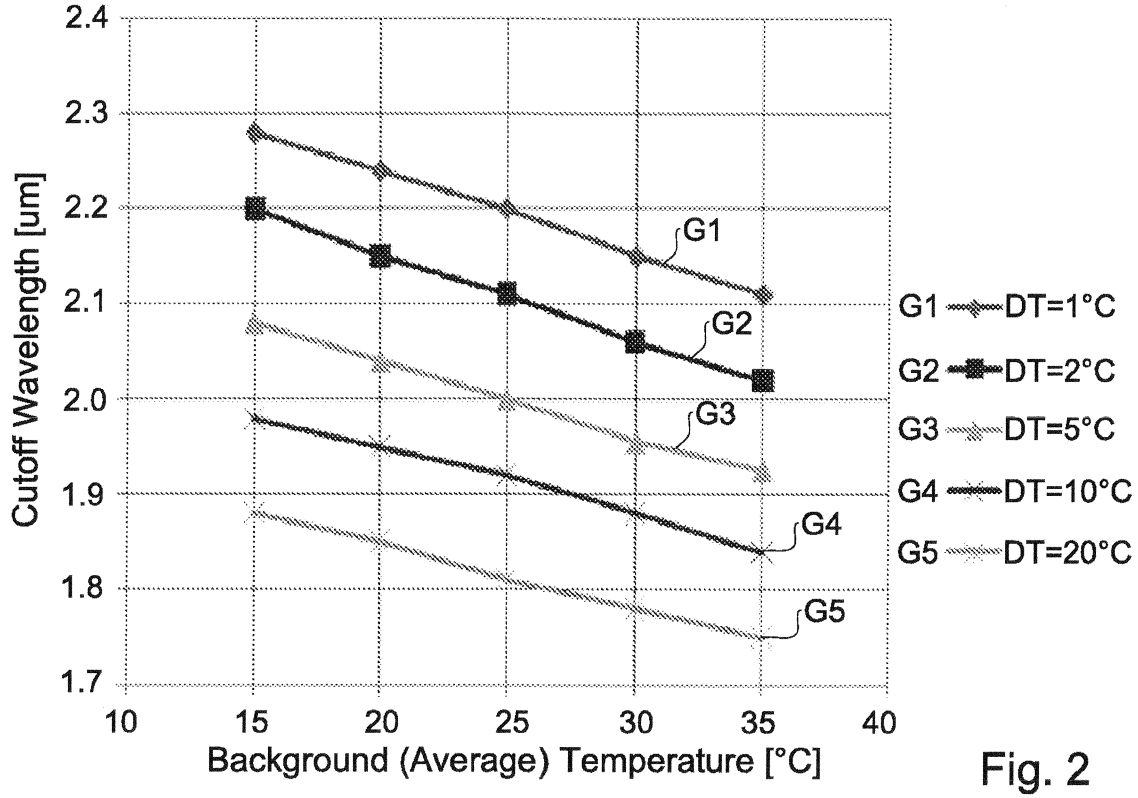

2.4
2.3
2.2
2.1
2.0
1.9
1.8
1.7
Cutoff Wavelength [um]
10
15
20
25
30
35
40
Background (Average) Temperature [°C]
G1
G2
G3
G4
G5
G1 DT=1°C
G2 DT=2°C
G3 DT=5°C
G4 DT=10°C
G5 DT=20°C

Fig. 2

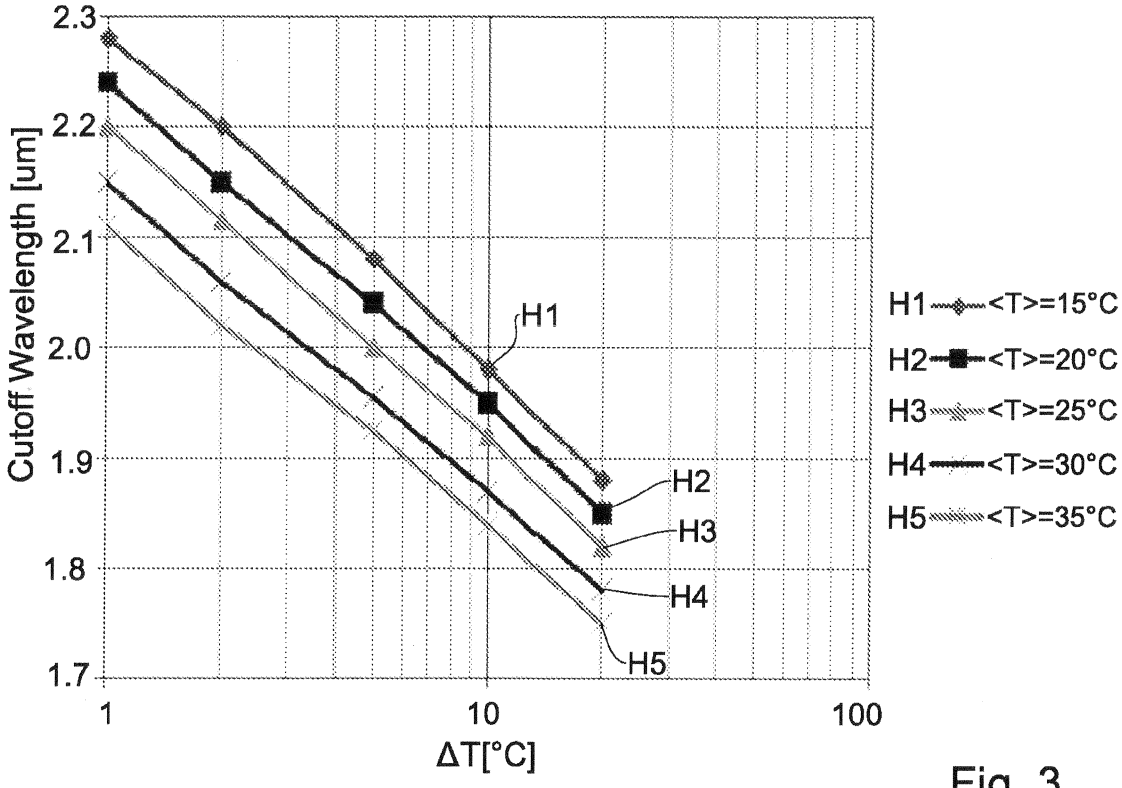

2.3
2.2
2.1
2.0
1.9
1.8
1.7
Cutoff Wavelength [um]
1
10
100
ΔT[°C]
H1
H2
H3
H4
H5
H1 <T>=15°C
H2 <T>=20°C
H3 <T>=25°C
H4 <T>=30°C
H5 <T>=35°C

Fig. 3

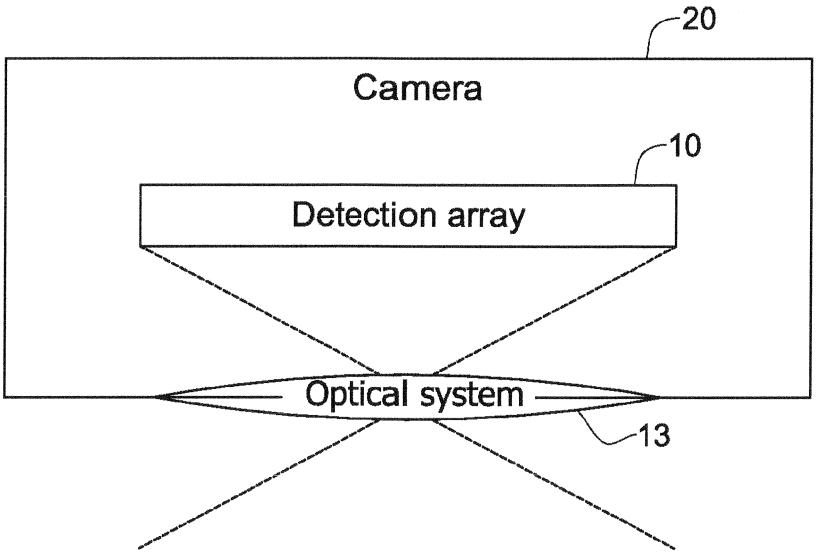


Fig. 4

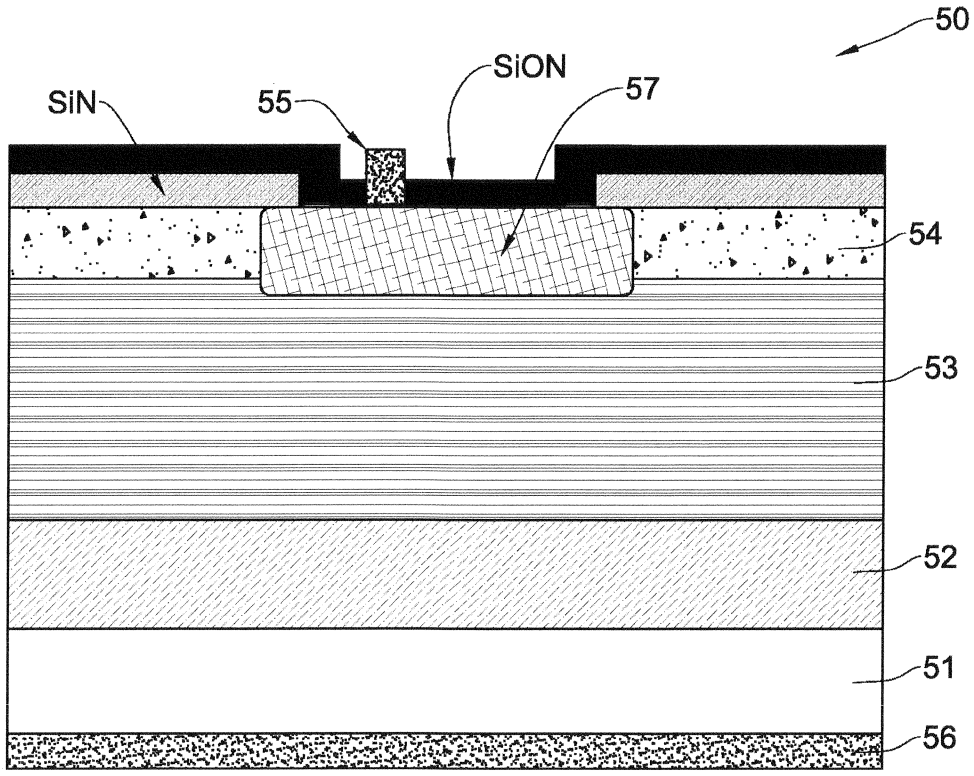

50
SiON
57
SiN
55
54
53
52
51
56

Fig. 5

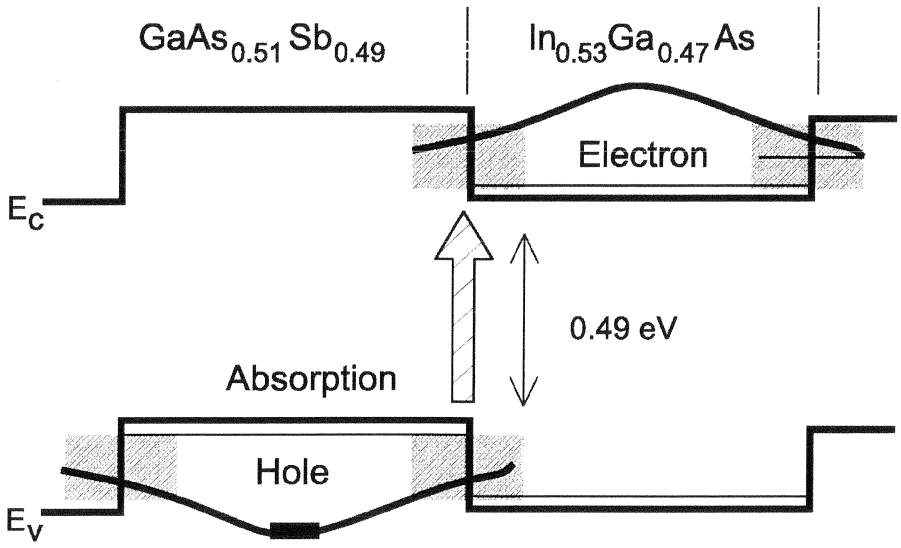

GaAs0.51 Sb0.49
In0.53Ga0.47As
Electron
Ec
0.49 eV
Absorption
Hole
Ev

Fig. 6

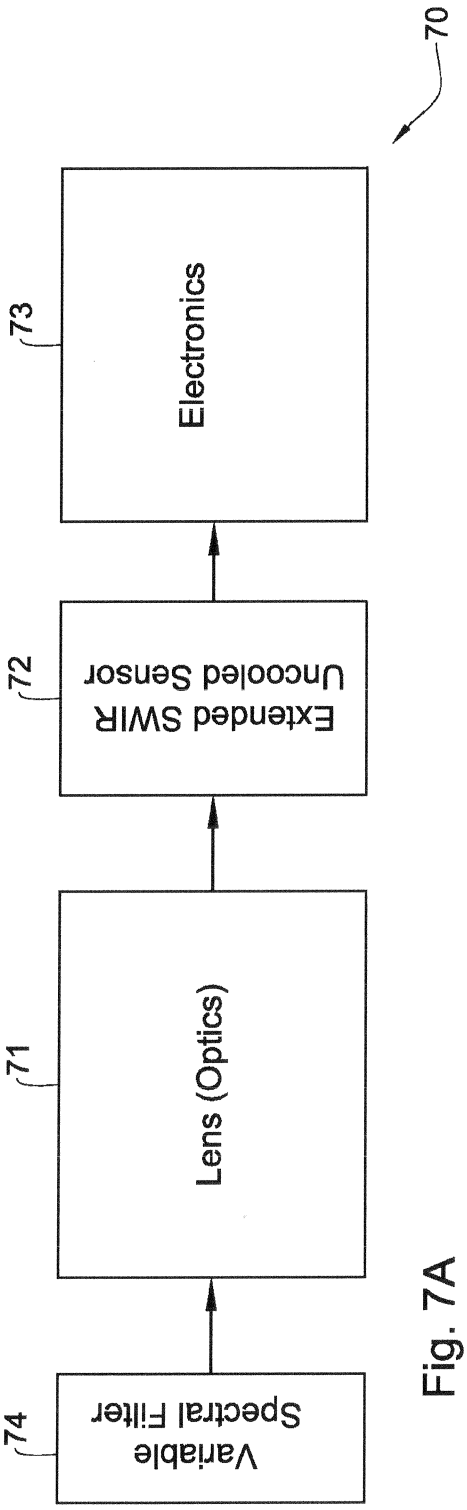

70
73
Electronics
72
Extended SWIR
Uncooled Sensor
71
Lens (Optics)
74
Variable
Spectral Filter

Fig. 7A

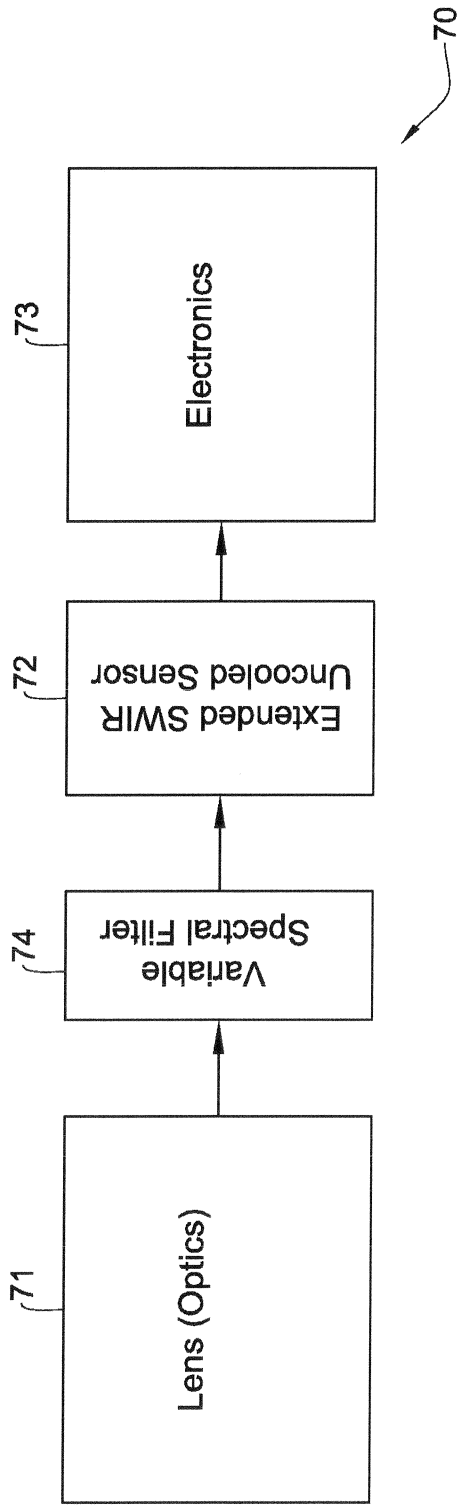

70
73
Electronics
72
Extended SWIR
Uncooled Sensor
74
Variable
Spectral Filter
71
Lens (Optics)

Fig. 7B