

Figure 1

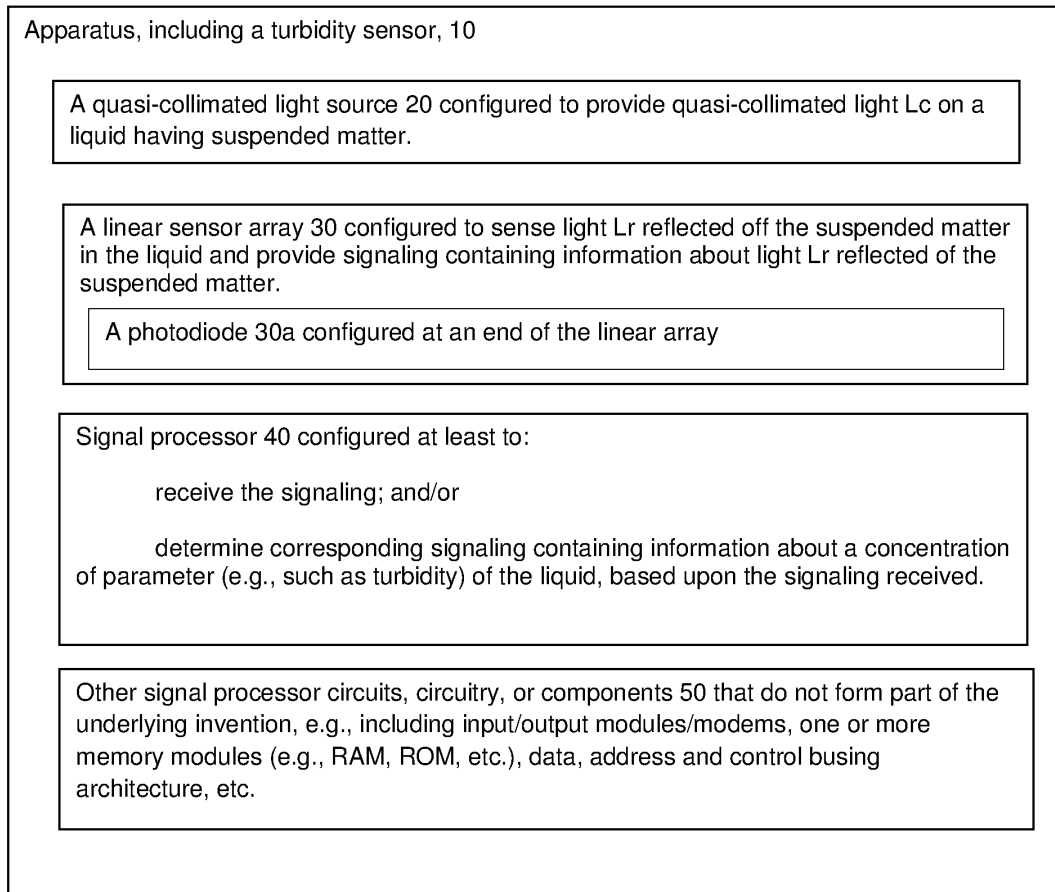


Figure 2A: Turbidity sensor 10

(r1, c1)	(r1, c2)	(r1, c3)	(r1, c4)	(r1, c5)	(r1, c6)	(r1, c7)	(r1, c8)	(r1, cn)
(r2, c1)	(r2, c2)	(r2, c3)	(r2, c4)	(r2, c5)	(r2, c6)	(r2, c7)	(r2, c8)	(r2, cn)
(r3, c1)	(r3, c2)	(r3, c3)	(r3, c4)	(r3, c5)	(r3, c6)	(r3, c7)	(r3, c8)	(r3, cn)
...								
(rn, c1)	(rn, c2)	(rn, c3)	(rn, c4)	(rn, c5)	(rn, c6)	(rn, c7)	(rn, c8)	(rn, cn)

30

Figure 2B: Linear sensor array

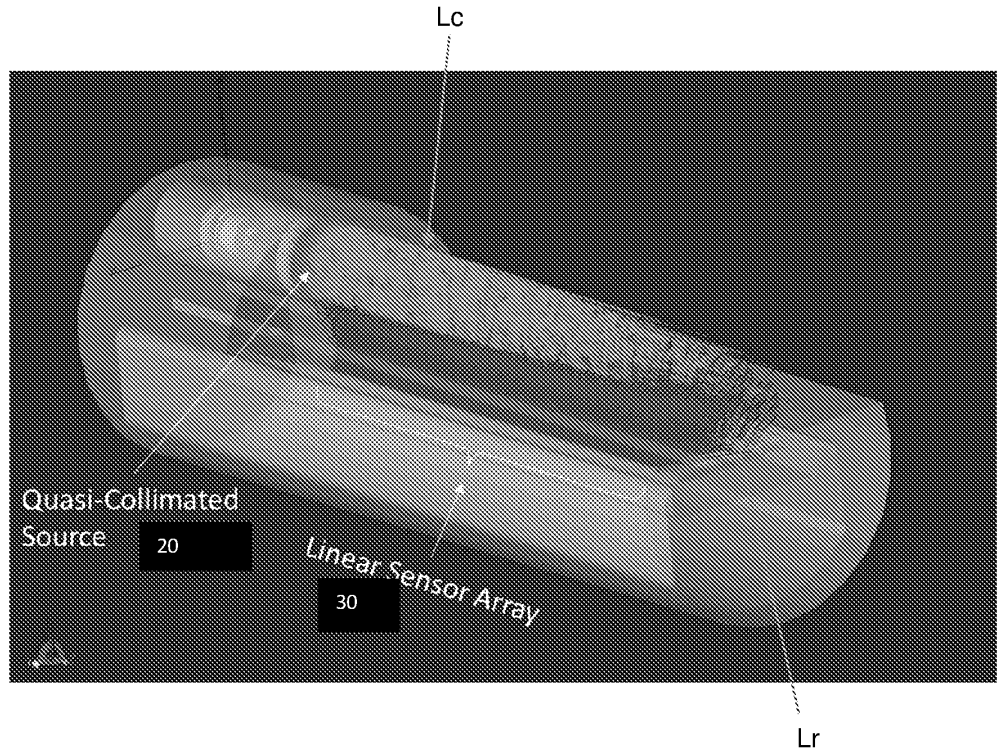


Figure 3

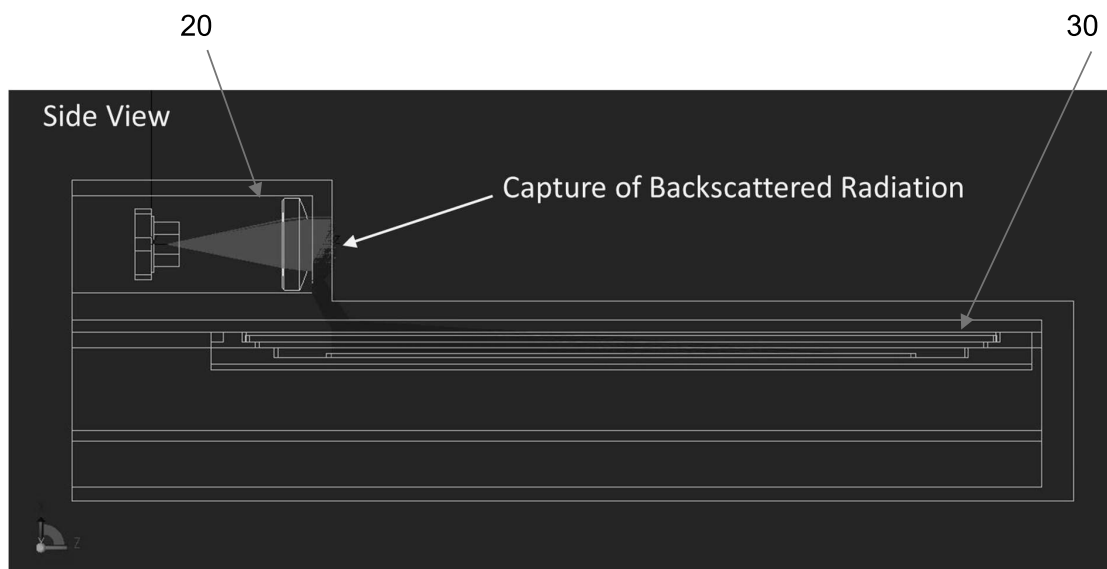


Figure 4: Side view of captured backscattered radiation

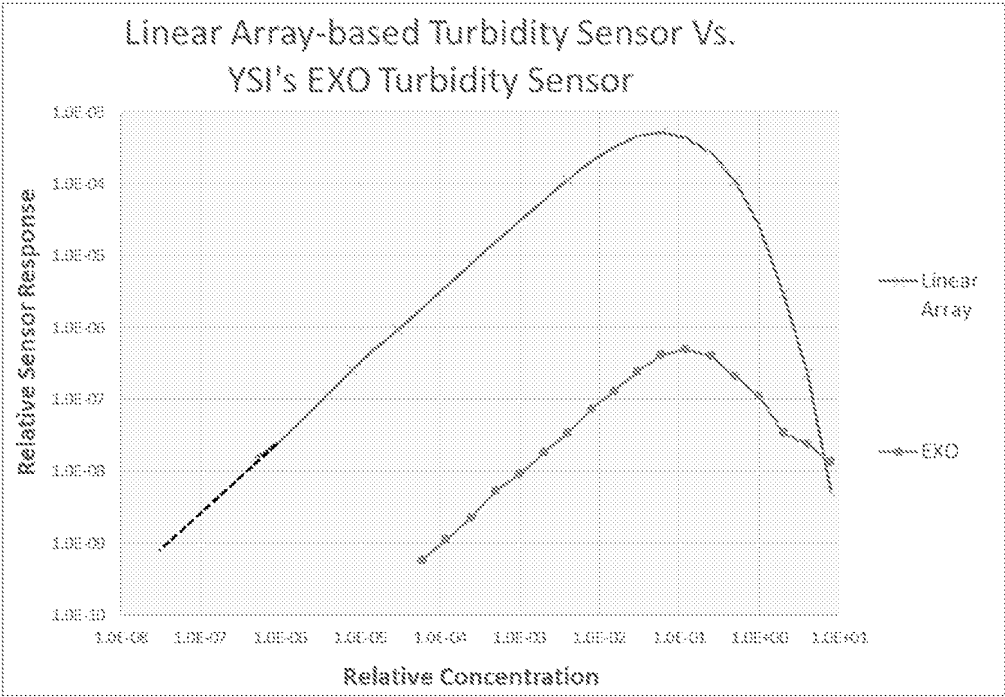


Figure 5: Sensitivity Comparison

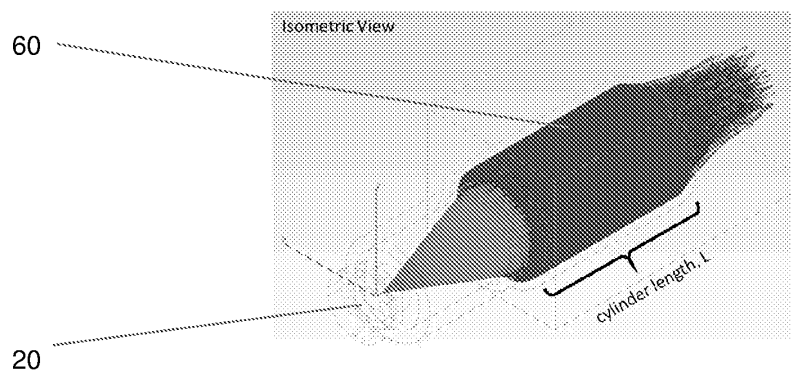


Figure 6A: Three-dimensional rendering of solid angle capture for an idealized long-cylinder shell geometry

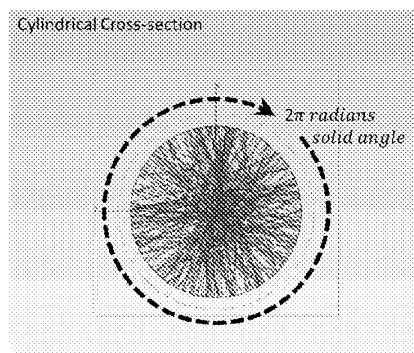


Figure 6B: Three-dimensional rendering of solid angle capture for an idealized long-cylinder shell geometry