

ABSTRACT

AN EAR BUD EARPHONE WITH VARIABLE NOISE ISOLATION, A CUSHION FOR AN EAR BUD EARPHONE AND A CORRESPONDING 5 METHOD

There is provided an insert ear bud earphone with variable noise isolation. The earphone includes a housing with a serpentine channel which is able to contain at least one transducer in a main body of the housing; and a cushion
10 which contacts a user's ear canal wall, the cushion being mounted on the serpentine channel. There is preferably at least one opening in either the housing or the cushion which causes leakage and allows ambient noise to enter the user's ear canal. There is also provided a cushion for an insert ear bud earphone. Finally, there is provided a method to enable variable noise
15 isolation in an insert ear bud earphone comprising an inclusion of at least one opening in either a housing of the earphone or a cushion mounted on the earphone which causes leakage and allows ambient noise to enter a user's ear canal.

20 Figure 3