

ABSTRACT

An antenna system (100), an antenna device (10), and an antenna structure (1) are provided. The antenna structure (1) includes a ring-shaped segment (11), a bandwidth adjustment segment (12), and a frequency adjustment segment (13). The ring-shaped segment (11) has a first end portion (111), a second end portion (112) spaced apart from the first end portion (111), and a surrounding portion (113) connected between the first end portion (111) and the second end portion (112). The bandwidth adjustment segment (12) is connected to the first end portion (111) and a part of the surrounding portion (113) adjacent to the first end portion (111) and has a first length (L1) along a first direction (D1). The frequency adjustment segment (12) is connected to the bandwidth adjustment segment (13) and has a second length (L2) along the first direction (D1) and greater than the first length (L1). The antenna structure (1) is configured to generate a three-dimensional sensing space (S) for obtaining signals from at least one sensor (20) located in the three-dimensional sensing space (S).

Fig. 1