



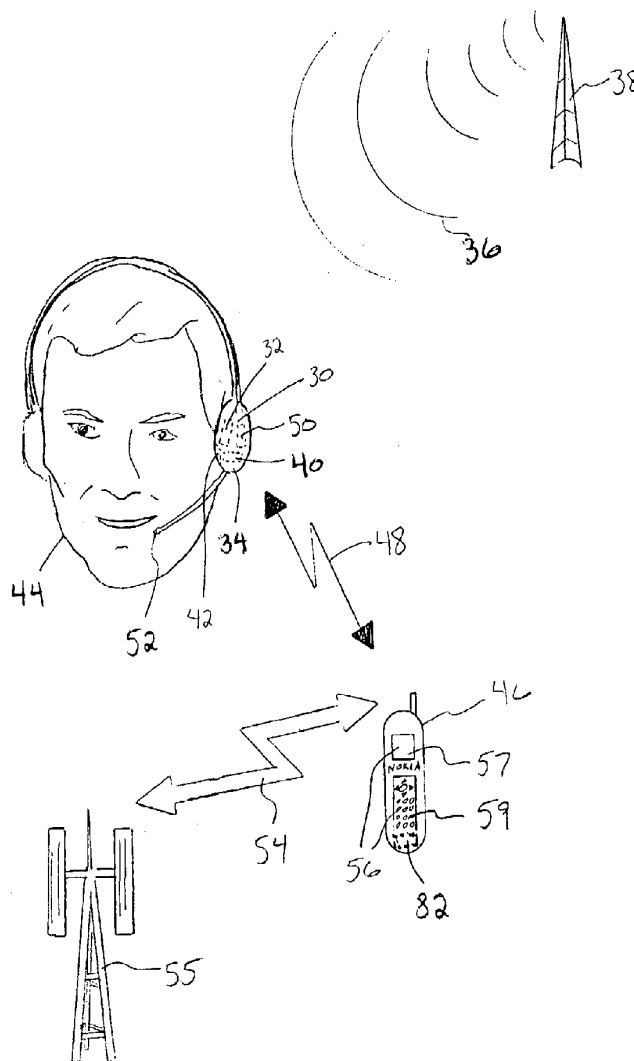
US 20040204168A1

(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2004/0204168 A1****Laurila**(43) **Pub. Date: Oct. 14, 2004**(54) **HEADSET WITH INTEGRATED RADIO AND PICONET CIRCUITRY**(52) **U.S. Cl. 455/569.1; 455/422.1**(75) **Inventor: Juha P. Laurila, Halikko (FI)**(57) **ABSTRACT**

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A portable headset **30** has a speaker **42**, a radio receiver **32**, and PAN circuitry **50** for receiving wireless electrical signals over a piconet such as Bluetooth. The radio receiver **32** or the PAN circuitry **50** may drive the speaker **42**, and override circuitry **68** enables the PAN circuitry **50** to mute the radio receiver **32**. The headset **30** may have a microphone **52**. A mobile phone call incoming to a mobile phone **46** automatically causes a speech connection over the PAN to be established between the mobile phone **46** and the headset **30**. The radio receiver **32** is muted and the user **44** carries on a phone conversation through the headset **30** without manually turning off the radio. Muting may be ceased upon termination of the phone call or of the PAN connection. A mobile phone user interface **56** may be used to control the radio receiver **32**.



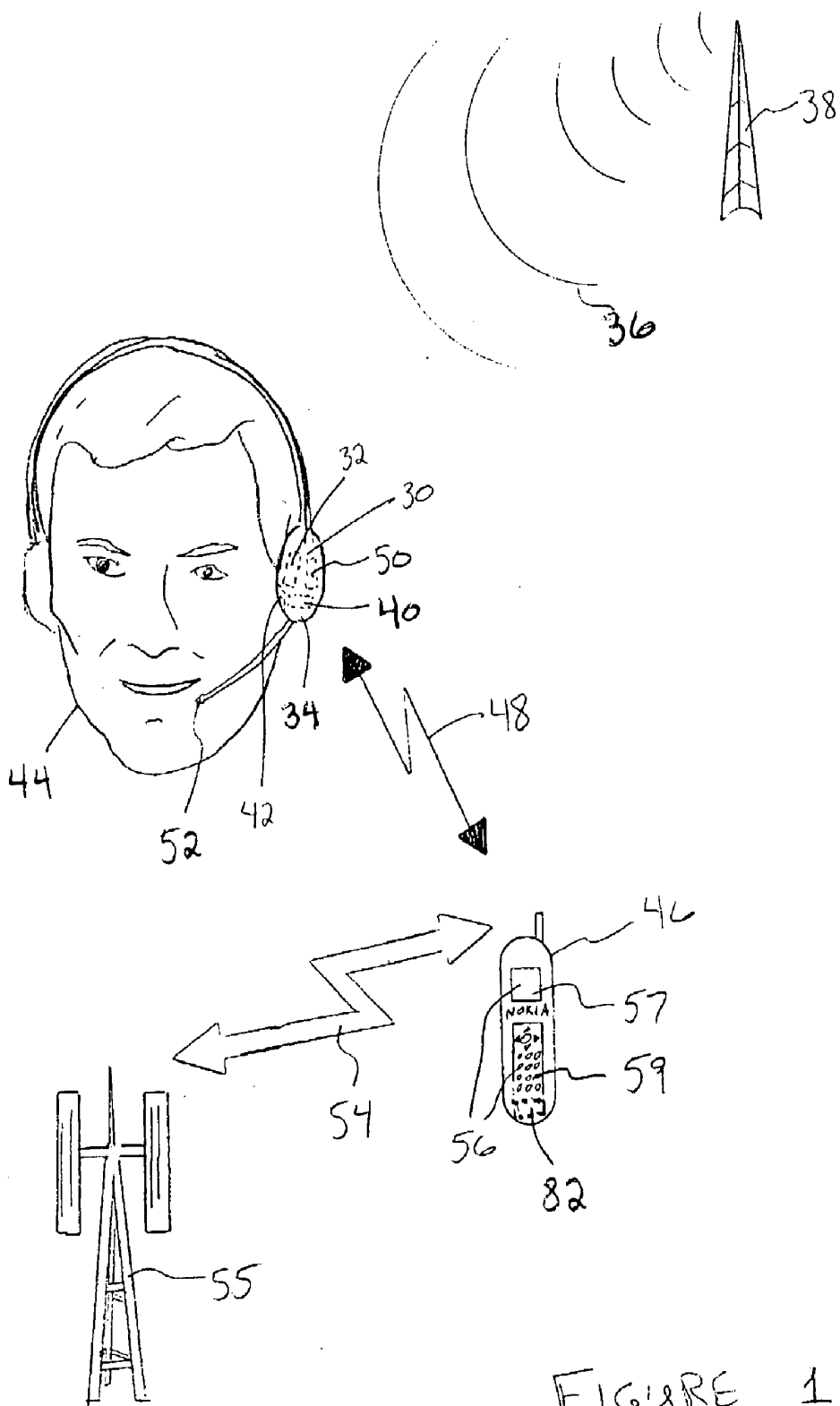
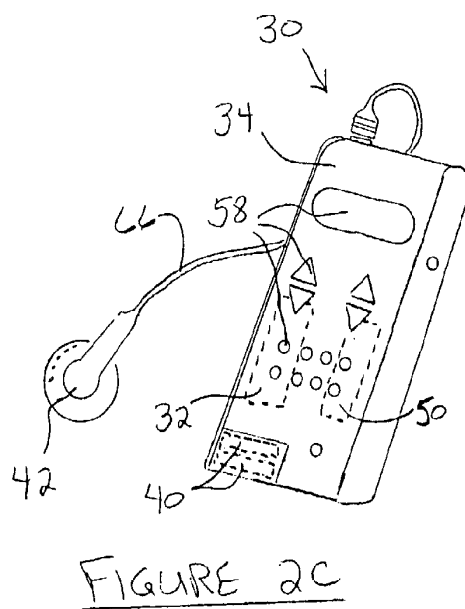
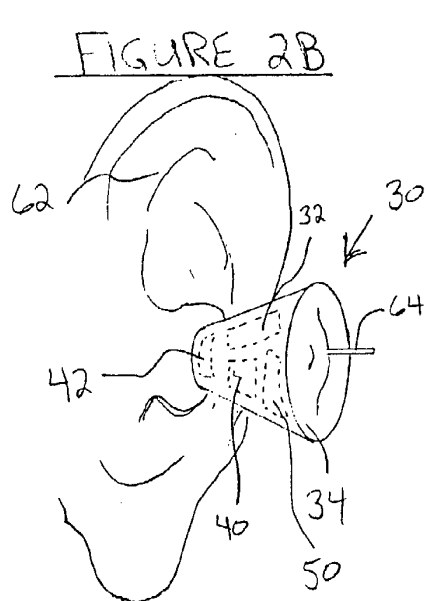
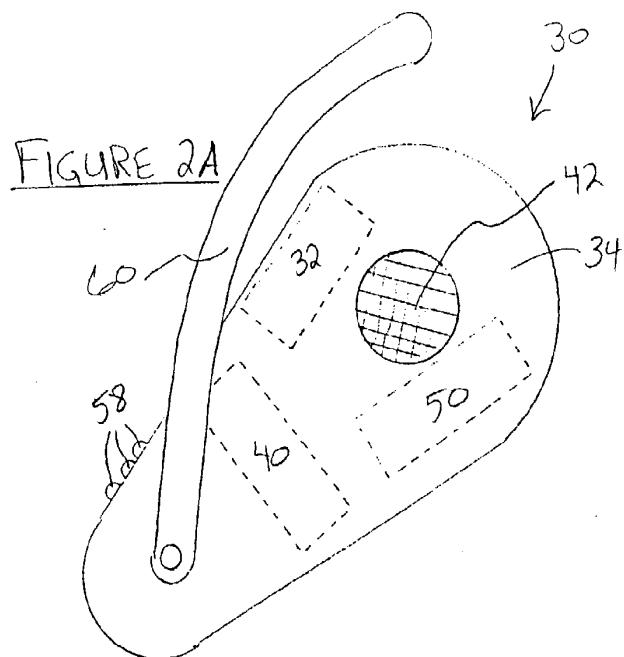


FIGURE 1



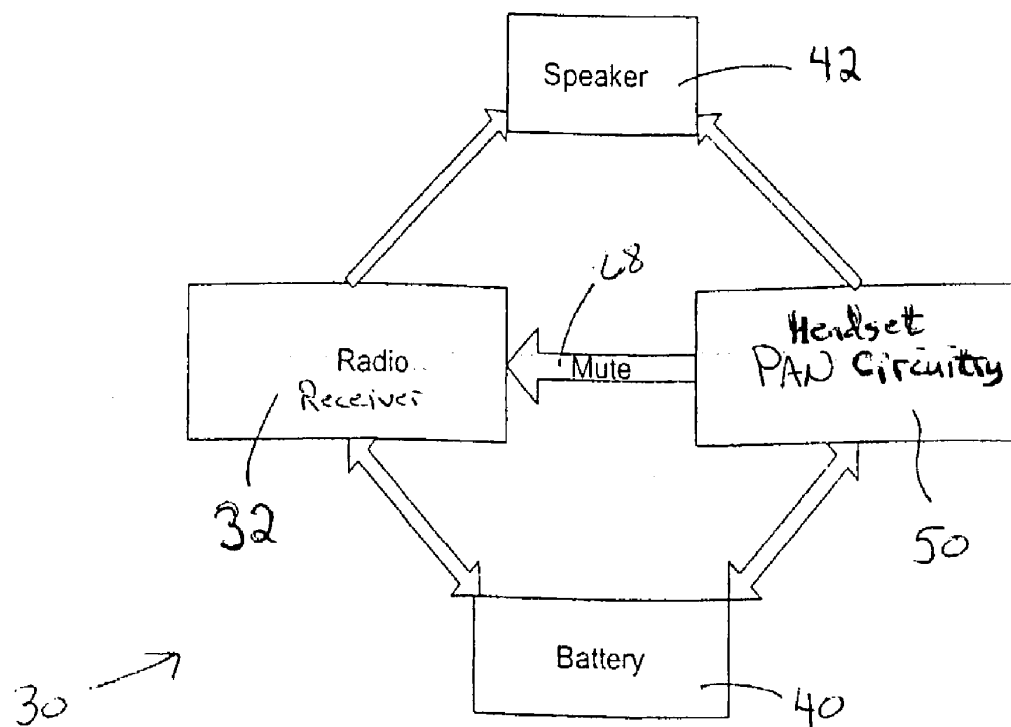
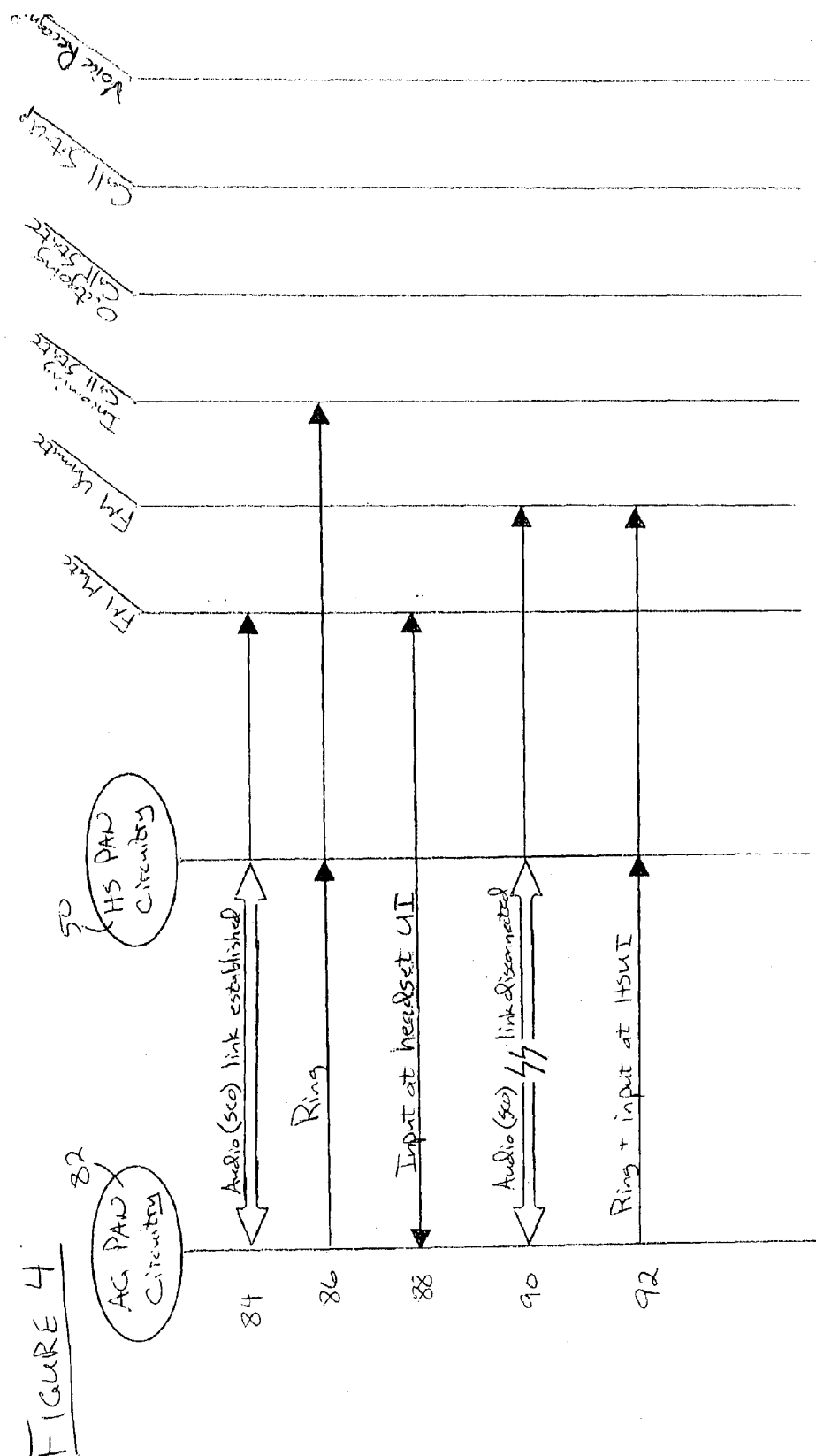


FIGURE 3



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