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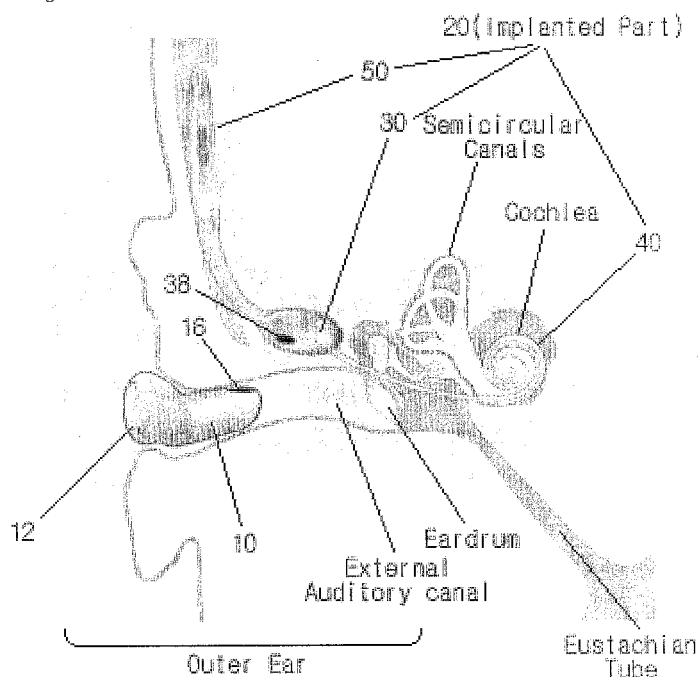
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(54) Title: A COCHLEA IMPLANT SYSTEM IN ITE (IN THE EAR) TYPE USING INFRARED DATA COMMUNICATION

[Figure 11]



(57) Abstract: There are provided a cochlea implant system including an in the ear (ITE) speech processor and an implanted part. In the cochlea implant system, the speech processor and the implanted part transfer and receive a signal by infrared data communication. The implanted part includes a receiving unit for receiving an infrared signal from the speech processor to demodulate the infrared signal, a stimulation circuit unit for converting the demodulated signal into a stimulation signal, an electrode array inserted into the cochlea to stimulate the auditory neurons by the stimulation signal, and a coil for receiving power from the outside through the RF power transmission. The implanted part can receive power from the outside through the coil to be charged.



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