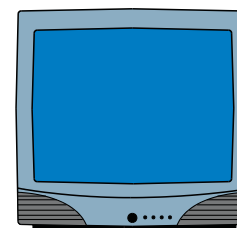Electric current passing through loop wire produces a magnetic field all the way around the wire

Loop wire around edge of room

Small electric current

Hearing aid user switches hearing aid to the 'T' position to pick up magnetic field. Hearing aid turns magnetic field back into sound.

The reception is best inside the loop, where the magnetic field is strongest.

Connected to TV

The loop amplifier unit converts sound into an electric current, which is passed through the loop wire

Using a domestic induction loop