

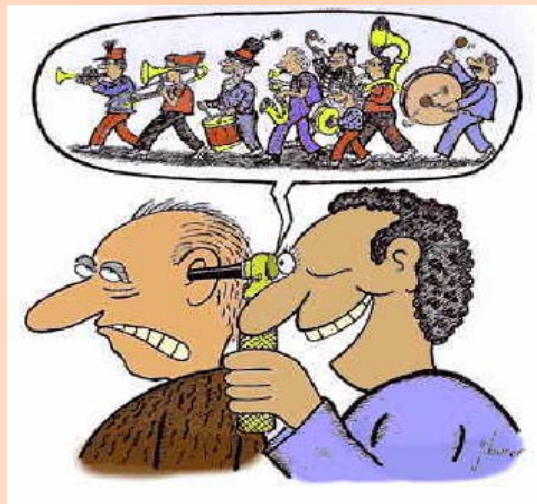


ACTIVE MASKING FOR TINNITUS

- Tinnitus is the noise that originates within the ear in the absence of an external sound

- These sounds have been described as:

- ◆ Ringing
- ◆ Buzzing
- ◆ Humming
- ◆ Gushing
- ◆ Whistling



- Over **60 million** suffer from “*ringing in the ears*” or tinnitus!!!!

- **Problem Definition :**
To implement an algorithm based on the principal of noise cancellation to mask the effects of tinnitus



- **Approach :**
It is proposed that the tinnitus can be neutralized with the help of an active noise cancellation headphone or pillow, which basically generates a tone or narrowband signals for masking the “*Ringing*” in the patient’s ear