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The source of vibration of the bones of the skull and tissues of the brain is sound oscillations on resonant frequencies in the volumes of external and internal ear, as well as in the apparent sinuses of the nasal cavity (geimorov, frontal, lattice labyrinth, wedge-shaped). The fluctuations can be excited when breathing and generating sounds with voice and auditory apparatus. The cavities in the bones of the skull can be simulated by the resonators of the Helmholtz. Sound waves generated by the vibrating bone sides of the sinuses are emitted to the sides of the eyes and the brain, exciting resonant oscillations in them. The intensity of these oscillations increases an order of magnitude when stucking the ears by increasing the quality of the external ear resonator. The excitation of oscillations in this resonator provides high bone conductivity of voice vibrations. Resonant oscillations in the cavity of the inner ear are enhanced with different pathologies of the brain and can be perceived by the auditory system as "ringing in the ears" (Tinnitus).