**THEME: "IF I COULD INVENT SOMETHING NEW"**

**TOPIC: *THE COMMUNICATOR: A REVOLUTIONARY ASSISTIVE DEVICE***

 According to the World Health Organization (WHO), *an annual additional investment of less than 1.40 dollars per person is needed to scale up ear and hearing care services globally. Over 5% of the world’s population or 430million people require rehabilitation to address their disabling hearing loss (including 34 million children).*

 Comprehending this Hydra-headed monster of a problem, that's why I am inspired to develop this innovation of inventing “*A Communicator*” that can connect the world of physical challenged people who has impairment in their ears (dumb) and the world of the speakers, in other to bridge the gap that has been created in-between them from time immemorial.

 This Communicator is a wearable device comprising of hearing aid ear pod, connected to a spectacle which has a black frame (handle), a switch located at the right frame of the spectacle, and the actuator located at both frames of the spectacle, it also has a photovoltaic cell which is located at the left frame of the spectacle, it also has an Acoustic Transducer (AT) attached to both frame of the spectacle and then it has a microchip that can understand all languages.

**COMMUNICATOR: THE CO-ORDINATION**

The Acoustic Transducer (AT) functions in trapping sound wave from the external environment and then transferring it to the spectacle which at the instant of sensing the sound wave transcribe it to a sign language for the eyes of the ear impairment person to understand. With this, there won't be breakage in communication between both parties.

The photovoltaic cell operates as the power supply medium using solar energy.

**NEUROPHYSIOLOGICAL CHANGES ASSOCIATED WITH PEOPLE WITH EAR IMPAIRMENTS.**

 Most people with hearing impairment have limited access to education and employment opportunities; and difficulty participating in classes or work meetings without adequate accommodations.

 Moreover, social- cultural isolation is another problem which is the feeling of being excluded from social interactions, events, and conversations due to communication limitations.

 Also, they have limited access to entertainment. Difficulty accessing movies TV shows, and life performances without captions or sign language interpretation.

 In addition, difficulty with alerting devices. The hearing smoke county, doorbells Fire County and other important alerts.

 My innovative technology aims to revolutionize hearing rehabilitation by providing a cutting-edge solution that restores effective communication and social interaction for individuals with hearing impairments.

 My invention can help in enhancing entertainment experience. My invention could enable individuals with hearing impairment to enjoy movies, TV shows, and life performances with greater ease.

 Moreover, increased accessibility; my invention could enable individuals in this kind of situation to participate more fully in education, employment, and healthcare setting.

 Lastly, emotional support, which helps in addressing communication challenges, my inventions can help reduce feelings of anxiety, depression and loneliness.

Conclusively, this innovative device, "The Communicator” demonstrates a paradigm shift in assistive technology, providing a comprehensive solution that bridges the communication gap for individuals with hearing impairment, thereby improving their overall well-being and functional capacity.