

# The design of spoon for the senior

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## ABSTRACT

Due to the fact that the Taiwanese society has approached the aged-society and the aged population keeps growing whereas the specific products designed for the senior do not increase as much, the issue to facilitate the senior living becomes a crucial matter. The aim of this research is to design a gadget which is suitable for senior. The KJ method is implemented to find that gadget. By the KJ method a conclusion is reached that senior has degenerated physical and cognitive capability. The degenerated cognitive capability makes the senior his memory degradation and the degenerated physical capability must take the diluted diet which produces the need of using the spoon for food taking. The senior 's hands will shake when using the spoon so that food will come out of the spoon. Thus, the main topic is to design a spoon for the senior usage and using the contradiction matrix of TRIZ to search an improved method. Besides the TRIZ, mind mapping is also used to solve the design problem. The research design a spoon for senior such that his elbow can be rested in the table while using the spoon for food taking in order to conserve the energy and easily to be maneuvered. The ANSYS is used analyze the stress of the spoon under various material of the spoon so that suitable thickness of the spoon can be determined and shape of the spoon will not change permanently during the usage.

Keywords : KJ method、 mind mapping、 TRIZ

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