ABSTRACT

One way to help the development of small industries is the application of alternative technologies in the industry that made the automation of production processes to increase the number of production and energy efficiency and cost.

The project work was made machines and filler caps are applied to the household industry for small scale that aims to help small industries are more developed and can compete in the industrialized world. In the charging system and everything is controlled by closing the bottle base CJ1M Omron PLC (program logic controller) as a regulator of automated systems work this tool. The process of filling and closing the bottle performed efficiently as possible to obtain optimal production results.

And from this research are expected to design, work systems, and manufacture of machine tool and filler caps can be alternatives for entrepreneurs and home industries.

Key words: a bottle filling machine, caps, PLC (program logic controller)