ABSTRACT

The fires in the city of Bandung have been caused by electricity, there are 212 cases of fires that occurred from 2015 - 2018. In electrical cases, fires occur in home electrical installation products, namely extension outlets that are used misuse based on the absorption of information on products that are less understood, the results of the questionnaire from 50 users of extension outlets were 68% who did not know the maximum information on the current that could be delivered by extension outlets and 32% knew the maximum current information contained in extension contacts. This can cause 2 negative impacts that can cause a fire. First, there is a buildup that can cause excess current and second, there is a high resistance connection, which is a connection event that the electronic device is not properly connected, causing sparks. And if seen from the incidence of fire caused by electricity, this is very minimal in terms of understanding information on security and use of these products. By using product design science as well as other theories that support this research, the author redesigned extension outlets in terms of information flow and current safety that can improve the use of security.

Keywords: Outlet, Fire, Electricity, Flow, Security, **Bandung.**