AUTOMATIC CHARCOAL BRIQUET MAKER USING PLC

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ABSTRACT

Charcoal is a carbon consisting largely of living matter such as timber that can be used in many times. Utilization of charcoal is still very poor because most of the people rely on the using of LPG. This situation lead to a growing number of charcoal producers suffered losses. In fact, the using of LPG also encounters many problems, including the lack of knowledge for public about how to use the LPG correctly.

The problems above can be overcome by using alternative energy and an increasing of charcoal as fuel. This thesis has designed a development tool from fuel that is going to be processed into charcoal briquettes automatically and controlled by using a Programmable Logic Controller.

A sensor which is used in automatic equipment maker charcoal briquettes is Infrared sensors and Limit Switch. The sensors have a function as an input for connecting the PLC to control the automatic of the manufacture of briquettes. In the PLC also has a timer that can be combined with sensors to regulate the process of making briquettes automatically.

The successful rating in the manufacture of automatic charcoal briquettes tool is 75%, which is seen from the length and diameter of the briquettes. The time required in the manufacture of automatic charcoal briquettes is 12-13 seconds. The exactly briquettes results are influenced by the composition of the briquettes’ dough.

Key Words : PLC, charcoal, charcoal briquette.
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