

Reference Number: 025418/0080

Title of the Invention

METHOD OF PULSED ELECTRIC FIELD IN BLACK TEA PROCESSING

Invention

The invention discloses use of pulsed electric field in black tea processing. Using pulsed electric field technology facilitates release of the water in the tea leaves through the cell wall. Moreover, application of centrifuge after the process of pulsed electric field enables to remove the water accumulated in the tea leaves. Since the amount of hot air required to remove the moisture remaining on the surface is much less than the amount consumed in the current art, energy is saved.

Advantages

This patent aims to reduce energy use by at least 50% by modifying the tea production process. Only in Turkey, 930 million US Dollars of energy can be saved in a year.

Current Status

TURKEY: Pending

Keywords

Black Tea, pulsed electric field, existing tea processing plants with small changes for energy savings

TRL: 3

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