



УНИВЕРЗИТЕТ У НОВОМ САДУ  
UNIVERSITY OF NOVI SAD

## TOP ACHIEVEMENTS 2022

### FACULTY OF TECHNICAL SCIENCES

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#### Patent P-2022/0083

Project of the Innovation Fund of the Republic of Serbia no. IF ID 50203  
"Increasing the value and range of industrial products from peppermint (*Mentha piperita* L.) with the aim of penetrating new markets"

Prof. Dr. Zoran Mitrović, Assoc. Boris Antić, Ph.D., assistant-master Đorđe Novaković (authors who are not from the faculty: Prof. Zoran Zeković, Ph.D., assistant professor Branimir Pavlić, Ph.D.)

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#### MEASURING AND REGULATING DEVICE FOR ANHYDRO A/S SPRAY DRYER REALIZED WITH A PROGRAMMABLE LOGIC CONTROLLER

The object of the protection is a measuring and regulating device that uses a programmable logic controller to determine the parameters of the technological process for obtaining dry matter from solution in the Anhydro A/S spray dryer and to control the drying parameters such as inlet temperature, outlet temperature and the mass flow rate of the hot air. The device also allows an independent control of the rotation speed of the atomizer that injects the liquid solution. The aim of controlling the parameters of the drying process of the introduced solution in the Anhydro A/S spray dryer is to obtain dry matter of increased quality and content of the desired bioactive substances without degrading the yield.

