## **EUROINVENT 2023**

MD.2.	
Title	Method of drying sea buckthorn seeds
	Popescu Victor, Balan Tatiana, Țislinscaia Natalia, Vișanu
Authors	Vitali, Melenciuc Mihail, Sandu Andrei-Victor, Țurcanu
	Dinu, Balan Mihail, Tărnă Ruslan
Institution	Technical University of Moldova
Patent no.	Patent aplication no. 2409 from 2023.03.13
	The invention relates to the food industry, namely to a method of drying sea buckthorn seeds. It can be applied to
	enterprises in the food industry, in laboratories and research
	centers related to drying processes.
	The process of drying the sea buckthorn seeds in a
	suspended layer with the application of microwaves,
	according to the invention, consists in the execution of the
	following stages: Stage I, involves loading the sea buckthorn
	seeds into the vertically oriented square section tube and the
	formation of the suspended layer, by a current of air, in
Description	which a speed of 9.6 m/s develops, with a flow rate of 360
EN	m3/h. Stage II requires turning on the microwave generator,
	at 350 W, with a frequency of 2460 MHz for a duration of
	140 min. Stage III assumes that after a time of 140 min. the
	first seeds from the suspended layer automatically separate,
	they have the lowest mass and moisture concentration, after
	which they are followed by the rest of the seeds,
	independent of mass and moisture content for each one
	separately, and finally, after a period of 190 min., the seeds
	are also separated, which initially had a greater mass and a
	high moisture content. Thus we obtain a product with a high
	degree of uniformity of drying, in a short period of time.
	degree of annormity of drying, in a short period of time.