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Title	Process for producing dyes from Safflower petals
Titic	(Carthamus tinctorius L.)
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Patent no.	Patent No. 1453
Description EN	Process for producing dyes from Safflower petals relates to the food industry, namely, to the extraction, purification and separation of natural chalconic colorants: carthamin and precarthamin. These biologically active colorants can be successfully used in order to substitute a toxic synthetic azocolorants. This natural chalcones will be used to produce safe foods, cosmetics and pharmaceuticals. According to the method, the air-dried Safflower petals are treated with sodium carbonate solution (1-5%) and undergo high pressure. The liquid phase obtained by compression and clarification is treated with alimentary acid and undergo other simple operations. The result of the invention is obtaining a red-purple colorant, carthamin, in a solid state and a yellow colorant, precarthamin in the form of a concentrate dark-orange solution or yellow powder, if is necessary. Applications: Food Industry, Skin-friendly Cosmetics, Pharmaceuticals. Advances: 1. Increasing the agricultural biodiversity and plant materials processing degree; 2. Compliance with the EU directive to replace synthetic dyes with natural ones 3. Solid state of obtained colorants, which offers them high stability

Class no. 3