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(54) Title: MICROEMULSION SYSTEMS FOR THE INCORPORATION OF POORLY-WATER SOLUBLE COMPOUNDS INTO
BACTERIAL CELLULOSE

(57) Abstract: The present invention relates to a fiber-layer patch comprising or consisting of a) a bacterial cellulose layer, and b)
an oil-in-water microemulsion or water-in-oil microemulsion, each comprising or consisting of at least one surfactant, at least one co-
surfactant, at least one oil, water, optionally at least one additive, and at least one active ingredient. Furthermore, the present invention
pertains to a method for manufacturing the patch according to the invention, wherein said is obtained by absorption loading comprising
the following steps: I) providing and optionally squeezing a never-dried patch of bacterial cellulose, II) inserting the never-dried and
optionally squeezed patch of bacterial cellulose into a container containing the microemulsion so that the bacterial cellulose is fully
covered with the microemulsion, III) stirring the microemulsion which contains the patch of bacterial cellulose for at least 48h. Finally,
the present invention refers to the use of the patch according to the present invention for wound healing, drug delivery, skin care,
aesthetic treatments and tissue regeneration.



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