

ABSTRACT

METHOD FOR PRODUCING REGENERATED CLAY, REGENERATED CLAY, AND
METHOD FOR PRODUCING PURIFIED FATS AND OILS

5 The present invention provides a method for performing regeneration of a
decolorization capacity of waste clay that has been used for purification of fats and oils,
and production of a thermally recyclable compound as a biofuel from oily ingredients in
the waste clay at the same time in a convenient manner. That is, a method for producing
purified fats and oils of the invention includes: a method for producing regenerated clay
10 including the steps of mixing waste clay that has been used for purification of fats and
oils, lower alcohol, and an acidic catalyst; and performing extraction of oily ingredients
from the waste clay, and an esterification reaction between the fats and oils and/or a free
fatty acid in the oily ingredients and the lower alcohol at the same time so as to
regenerate a decolorization capacity of the waste clay; regenerated clay that is produced
15 by the method for producing the regenerated clay; and a process of decolorizing the fats
and oils using the regenerated clay.

No Figure