

ABSTRACT**PHOTOINITIATED SYSTEM AND PROCESS FOR REMOVAL OF TOXIC
CHEMICALS FROM VEGETABLE OILS**

[0037] A system for removing toxic chemicals from a refined, bleached and deodorized oil (RBDPO) comprising: a treatment section comprising a photosensitive adsorbent for removal of the toxic chemicals from the RBDPO; a regeneration section for separating the treated RBDPO from the adsorbent hence regenerating the adsorbent; wherein when the toxic chemicals are in contact with the adsorbent and is exposed to sunlight, the adsorption of the toxic chemicals is initiated, therefore enabling the separation of the toxic chemicals from the RBDPO.

FIG. 1