

**COPROCESSING OF BIOFEEDS WITH BULK MIXED METAL
CATALYSTS**

ABSTRACT

This invention relates to methods for deoxygenation utilizing bulk metal catalysts feedstocks derived in part or whole from biological sources and alternatively, further hydrotreatment processing of such deoxygenated feedstocks. Feedstocks containing bio-derived feed components, and preferably additionally mineral oil feed components, are deoxygenated in a first stage or zone using a bulk metal catalyst. In additional embodiments, the deoxygenated feedstock effluent from the deoxygenation stage is further subjected to a hydrodesulfurization stage or zone.

(FIGURE 3)