

Abstract**5 Process for preparing aldehydes and separation of the catalyst system by membrane separation**

10 The present invention provides a process for preparing aldehydes from C2 to C20 olefins using a subsequent membrane separation to separate the homogeneously dissolved catalyst system, wherein prior to the membrane separation a gas exchange that increases the partial pressure fraction of carbon monoxide or hydrogen is carried out in order to boost catalyst retention by the membrane.

[No figure]