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(54) Title: A NITRIDED MIXED OXIDE CATALYST SYSTEM AND A PROCESS FOR THE PRODUCTION OF ETHYLENICALLY UNSATURATED CARBOXYLIC ACIDS OR ESTERS

(57) Abstract: The invention relates to a method of producing an ethylenically unsaturated carboxylic acid or ester, preferably an α , β ethylenically unsaturated carboxylic acid or ester. The method includes contacting formaldehyde or a suitable source thereof with a carboxylic acid or ester in the presence of a catalyst and optionally in the presence of an alcohol. The catalyst comprises a nitrided metal oxide having at least two types of metal cations, M^1 and M^2 , wherein M^1 is selected from the metals of group 2, 3, 4, 13 (called also IIIA) or 14 (called also IVA) of the periodic table and M^2 is selected from the metals of groups 5 or 15 (called also VA) of the periodic table. The invention extends to a catalyst system.



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