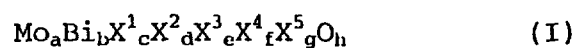


ABSTRACT

SELECTIVE ELECTROCATALYTIC OXIDATION OF HYDROCARBONS

A process for the electrochemical oxidation of organic compounds, wherein the anode material used is a mixed oxide of the formula



where

X^1 = V, Nb, Cr, W, Ta, Ga, Ce and/or La,

X^2 = Li, La, K, Rb, Cs, Cu, Ag, Au, Pd and/or Pt,

X^3 = Fe, Co, Ni and/or Zn,

X^4 = Sn, Pb, Sb and/or Te,

X^5 = Ti, Zr, Si and/or Al, where

a = 0-3,

b = 0-3,

c = 0-12.5,

d = 0-5,

e = 0-1.5,

f = 0-1 and

g = 0-25

with the proviso that $a+d \geq 0.15$.

Figure 1