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(57) Abstract: An electrode substrate comprising  $M_{(n+1)}AX_n$ , where M is a metal of group IIIB, IVB, VB, VIB or VIII of the periodic table of elements or a combination thereof, A is an element of group IIIA, IVA, VA or VIA of the periodic table of elements or a combination thereof, X is carbon, nitrogen or a combination thereof, where n is 1, 2, or 3; and b) an electrocatalytic coating deposited on said electrode substrate, said coating being selected from at least one of b.1 ) a metal oxide and/or metal sulfide comprising  $B_yC_{(1-y)}O_{z1}S_{z2}$ , wherein B is at least one of ruthenium, platinum, rhodium, palladium, iridium, and cobalt, C is at least one valve metal, y is 0.4-0.9,  $0 \leq z1, z2 \leq 2$  and  $z1+z2=2$ ; b.2) a metal oxide comprising  $B_fC_gD_hE_i$ , wherein B is at least one of ruthenium, platinum, rhodium, palladium, and cobalt, C is at least one valve metal, D is iridium, E is Mo and/or W, wherein f is 0-0.25 or 0.35-1, g is 0-1, h is 0-1, i is 0-1, wherein  $f+g+h+i=1$ ; b.3) at least one noble metal; b.4) any alloy or mixture comprising iron-molybdenum, iron-tungsten, iron-nickel, ruthenium-molybdenum, ruthenium-tungsten or mixtures thereof; b.5) at least one nanocrystalline material. The electrode is used in an electrolytic cell for the production of alkali metal chlorate.



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## A. CLASSIFICATION OF SUBJECT MATTER

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ADD: C25C7/02

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## B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

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## C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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