

Title (en)
NOVEL COLLECTORS FOR THE FROTH FLOTATION OF MINERAL VALUES

Publication
EP 0174866 A3 19890906 (EN)

Application
EP 85306521 A 19850913

Priority
US 64989084 A 19840913

Abstract (en)
[origin: EP0174866A2] A collector and process for recovering metal values from a metal ore by subjecting the metal ore, in the form of an aqueous pulp, to a froth flotation process in the presence of a collector wherein the collector comprises a compound corresponding to the formula <CHEM> and n is an integer from 1 to 6 or $\text{R} \text{---} \text{CH}_2 \text{---} \text{mC IDENTICAL}$ where m is an integer from 0 to 6; R<1> and each R<2> are independently C1-22 hydrocarbyl or a C1-22 hydrocarbyl substituted with one or more hydroxy, amino, phosphonyl, alkoxy, imino, carbamyl, carbonyl, thiocarbonyl, cyano, carboxyl, hydrocarbylimino groups, with the proviso that R<2> can be a divalent radical with both valencies bonded directly to the atom X is -S-, -O-, -N-R<3>, <CHEM> R<3> is H or a C1-22 hydrocarbyl; a is an integer of 0, 1 or 2; b is an integer of 0, 1 or 2; with the proviso that the sum of a and b equals 2 except when R<2> is a divalent radical with both valencies bonded directly to the N atom, in which case, b=1 and a=0 or when $\text{R} \text{---} \text{CH}_2 \text{---} \text{mC IDENTICAL}$ in which case, a+b=0, and with the further proviso that when X is <CHEM> the carbonyl moiety is bonded to R<1>. y

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