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(54) Title: RECOVERY OF NICKEL AND COBALT FROM BLACK MASS

(57) Abstract: The present invention lies in the field of pyrometallurgy and discloses a process and a slag suitable for the recovery of Ni and Co from Li-ion batteries or their waste, particularly from Black Mass. The slag composition is defined according to: 25% < MnO < 70%; Al₂O₃ + 0.5 MnO < 45% SiO₂ > 5%; Li₂O > 1%; 0.5% < P₂O₅ < 10%; MnO + Li₂O + Al₂O₃ + CaO + SiO₂ + FeO + MgO + P₂O₅ > 90%; and, wherein (CaO + 2 Li₂O + 0.4 MnO) / SiO₂ ≥ 2.0. This composition is particularly adapted to limit or avoid the wear or corrosion of furnaces lined with magnesia-bearing refractory bricks.



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