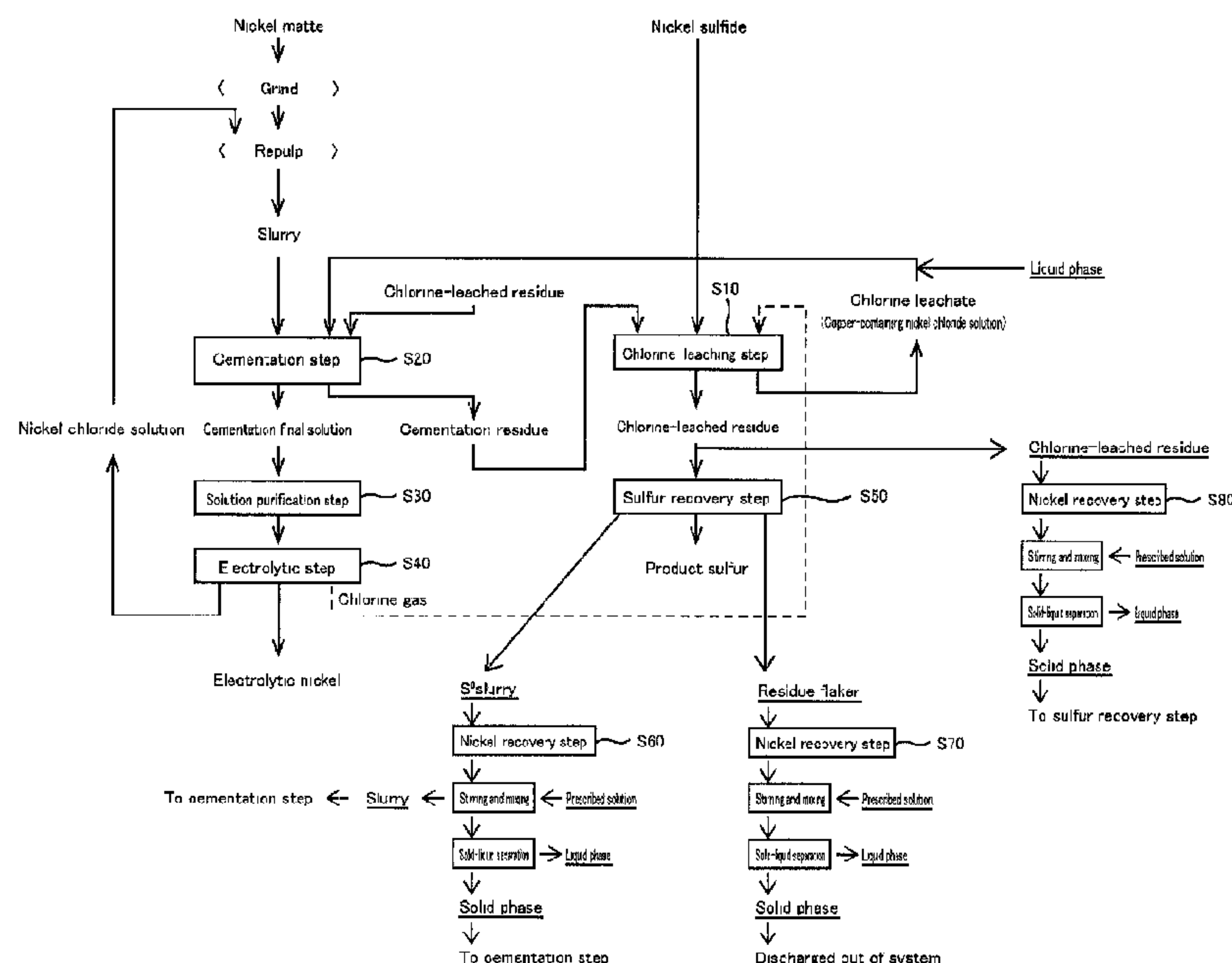




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(54) **Titre : PROCEDE DE RECUPERATION DU NICKEL**
(54) **Title: NICKEL RECOVERY PROCESS**



(57) **Abrégé/Abstract:**

Provided is a nickel recovery method that makes it possible to reduce the amount of nickel remaining in byproducts by recovering nickel from the byproducts of an electro-nickel manufacturing process which uses chlorine leaching, and that also enables a simpler cementation step to be simultaneously achieved. In a nickel recovery step S60, nickel recovery step S70, and nickel recovery step S80, an aqueous solution containing 80 to 390 g/L of chlorine and 30 to 70 g/L of copper is used to recover nickel from an S° slurry, residual flakes, and chlorine leaching residue, which are byproducts of an electro-nickel manufacturing process which uses chlorine leaching.

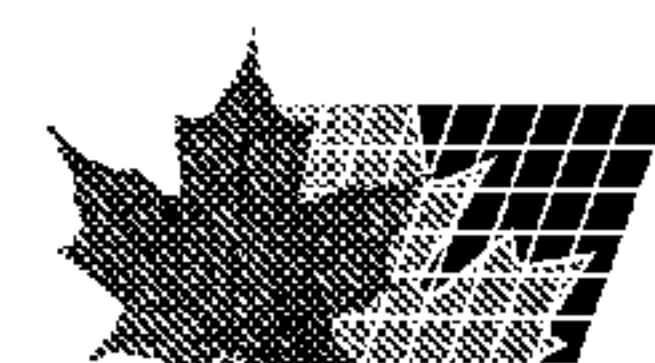


FIG.1

S10... CHLORINE LEACHING STEP

S20... CEMENTATION STEP

S30... PURIFICATION STEP

S40... ELECTROLYTIC STEP

S50... SULFUR RECOVERY STEP

S60, S70, S80... NICKEL RECOVERY STEP

AA... NICKEL CHLORIDE SOLUTION

BB... NICKEL MATTE

CC... CRUSHING

DD... REPULPING

EE... SLURRY

FF... CEMENTATION END SOLUTION

GG... ELECTRO-NICKEL

HH... CHLORINE LEACHING RESIDUE

II... CEMENTATION RESIDUE

JJ... CHLORINE GAS

KK... NICKEL SULFIDE

LL... SULFUR PRODUCT

MM... CHLORINE LEACHING SOLUTION
(COPPER-CONTAINING NICKEL CHLORIDE SOLUTION)

NN... LIQUID PHASE

OO... S° SLURRY
PP... TO CEMENTATION STEP

QQ... STIRRING AND MIXING

RR... PREDETERMINED SOLUTION

SS... SOLID-LIQUID SEPARATION

TT... SOLID PHASE

UU... RESIDUE FLAKES

W... DISCHARGE OUT OF THE SYSTEM

WW... TO SULFUR RECOVERY STEP