

Title (en)
SCANDIUM CONCENTRATE PRODUCTION METHOD

Title (de)
SCANDIUMKONZENTRATHERSTELLUNGSVERFAHREN

Title (fr)
PROCÉDÉ DE PRODUCTION DE CONCENTRÉ DE SCANDIUM

Publication
EP 3081670 B1 20170913 (EN)

Application
EP 15740662 A 20150123

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• JP 2015051827 W 20150123

Abstract (en)
[origin: EP3081670A1] The present invention effectively recovers a scandium concentrate from an Al-Sc alloy. This scandium concentrate production method includes: a molten mixture production step (S1) in which an alloy that contains aluminum and scandium is brought into contact with chlorine and melted in order to produce a molten mixture of aluminum chloride and scandium chloride; a first electrolysis step (S2) in which the molten mixture is subjected to first electrolysis using a first cathode at a potential that is between the potential that causes aluminum to form a metal and the potential that causes scandium to form a metal and aluminum is produced around the first cathode; and a second electrolysis step (S3) in which, after a molten aluminum production step, the molten mixture is subjected to second electrolysis using a second electrode at a potential that makes it possible to recover scandium and a scandium concentrate is produced around a second cathode.

IPC 8 full level
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Cited by
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