

Title (en)

High yield methods for electrochemical preparation of cysteine and analogues.

Title (de)

Hochleistungsverfahren zur elektrochemischen Herstellung von Cystein und ähnlichen Verbindungen.

Title (fr)

Procédé de préparation électrochimique de cystéine et de composés analogues avec un haut rendement.

Publication

EP 0436055 A1 19910710 (EN)

Application

EP 90100151 A 19900104

Priority

EP 90100151 A 19900104

Abstract (en)

Amino acid free bases are prepared electrochemically without production of intermediate acid salts. Amino acids having reducible disulfide linkages and at least one basic nitrogen group are reduced at a high surface area, noncontaminating cathode to provide a current density of at least 50mA/cm², product yield of at least 90% and an operating current efficiency of at least 90%.

IPC 1-7

C25B 3/04

IPC 8 full level

C25B 3/25 (2021.01)

CPC (source: EP)

C25B 3/25 (2021.01)

Citation (search report)

- [A] EP 0235908 A2 19870909 - ELECTRICITY COUNCIL [GB]
- [A] FR 2216249 A2 19740830 - HOECHST AG [DE]
- [A] PATENT ABSTRACTS OF JAPAN, vol. 8, no. 93 (C-220)[1530], 27th April 1984; & JP-A-59 009 184 (ASAHI GLASS K.K.) 18-01-1984
- [A] CHEMICAL ABSTRACTS, vol. 82, 1975, page 374, abstract no. 36572v, Columbus, Ohio, US; V.N. NIKULIN et al.: "Electrochemical synthesis of cysteine on modified platinum electrodes", & NOVOSTI ELEKTROKHM. ORG. SOEDIN., TEZISY DOKL. VSES. SOVESHCH. ELEKTROKHM. ORG. SOEDIN., 8th 1973 (Pub. 1973), 57-8

Cited by

CN1036408C; ES2137105A1; EP0965658A1; ES2108654A1; US6159352A; ES2098191A1; WO2011000014A1; WO9742358A1; WO9638601A1

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

EP 0436055 A1 19910710

DOCDB simple family (application)

EP 90100151 A 19900104