

Title (en)  
BACTERIAL BENEFICIATION OF MINERALS.

Title (de)  
BAKTERIELLE ERZGEWINNUNG.

Title (fr)  
ENRICHISSEMENT BACTERIEN DE MINERAIS.

Publication  
**EP 0129564 A4 19850701 (EN)**

Application  
**EP 84900004 A 19831216**

Priority  
AU PF731282 A 19821217

Abstract (en)  
[origin: WO8402355A1] Process for the beneficiation of ores, comprising the dissolution of pyrite, pyrrhotite or other gangue reduced iron and/or sulfur compounds by a strain of Thiobacillus ferrooxidans capable of oxidising iron and sulfur. The valuable metal is not solubilised by the micro-organism. The process is especially applicable to the treatment of tin ores, before, during or after beneficiation and also tailings from tin beneficiation which can contain up to 14 % of the tin originally present in the ore.

IPC 1-7  
**C22B 1/00**; C22B 3/00; C22B 25/04; C22B 34/12; C22B 23/04

IPC 8 full level  
**C12P 3/00** (2006.01); **B03D 1/02** (2006.01); **C22B 3/18** (2006.01); **C12R 1/01** (2006.01)

CPC (source: EP)  
**C22B 3/18** (2013.01); **Y02P 10/20** (2015.11)

Citation (search report)

- [X] FR 1504760 A 19671208
- [A] US 4293334 A 19811006 - DROBOT WALTER, et al
- [A] GB 2068927 A 19810819 - ENGELHARD MIN & CHEM
- [A] US 3796308 A 19740312 - MCILHINNEY A, et al

Designated contracting state (EPC)  
AT BE CH DE FR GB LI LU NL SE

DOCDB simple family (publication)  
**WO 8402355 A1 19840621**; AU 2334884 A 19840705; AU 565144 B2 19870903; EP 0129564 A1 19850102; EP 0129564 A4 19850701; JP S60500239 A 19850228; OA 07796 A 19861120; ZA 839394 B 19840829

DOCDB simple family (application)  
**AU 8300186 W 19831216**; AU 2334884 A 19831216; EP 84900004 A 19831216; JP 50014884 A 19831216; OA 58370 A 19840817; ZA 839394 A 19831219