Title (en)
METHOD FOR ISOLATING SALTS OF ORGANIC ACIDS FROM A FERMENTATION BROTH AND FOR RELEASING THE ORGANIC ACID

Title (de)
VERFAHREN ZUR ISOLIERUNG VON SALZEN VON ORGANISCHEN SÄUREN AUS EINER FERMENTATIONSBRÜHE UND ZUR FREISETZUNG DER ORGANISCHEN SÄURE

Title (fr)
PROCEDE POUR SEPARER DES SELS D'ACIDES ORGANIQUES CONTENUS DANS UN BOUILLON DE FERMENTATION ET LIBERER L'ACIDE ORGANIQUE

Publication
EP 1436245 A1 20040714 (DE)

Application
EP 02785181 A 20021009

Priority
• DE 10149869 A 20011010
• EP 0211306 W 20021009

Abstract (en)
[origin: DE10149869A1] A method for isolating salts (I) of organic acids from a fermentation broth involves: (a) partial evaporative crystallization; and (b) displacement precipitation of the salt. Independent claims are also included for the following: (1) a method (M1) for the production of free organic acids from their salts and suitable hydroxides by: (a) dissolving the crystalline salt of an organic acid in water or an aqueous solution; (b) removing multivalent cations from the solution; and (c) liberating the acid from the solution; (2) a method (M2) for the production of esters of organic acids by esterifying acids (obtained as described above) with 1-6C alkanols; and (3) a method for the production of ascorbic acid from 2-keto-L-gulonic acid by formation of the ester (methods M1 and M2) lactonization of the ester and isolation of crude ascorbic acid.

IPC 1-7
C07C 51/42; C07D 307/62; C07C 59/235; C12P 7/60

IPC 8 full level
C07C 51/42 (2006.01); **C07D 307/62** (2006.01)

CPC (source: EP US)
C07C 51/42 (2013.01 - EP US); **C07D 307/62** (2013.01 - EP US)

C-Set (source: EP US)
1. **C07C 51/42** + **C07C 59/08**
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3. **C07C 51/42** + **C07C 59/235**

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