

Title (en)  
IMPROVED METHOD FOR THE CARBON-DIOXIDE EXTRACTION OF PHOSPHATES FROM RAW MATERIALS

Title (de)  
VERBESSERTES VERFAHREN ZUR KOHLENSTOFFDIOXID-EXTRAKTION VON PHOSPHATEN AUS ROHSTOFFEN

Title (fr)  
PROCÉDÉ AMÉLIORÉ D'EXTRACTION, PAR DIOXYDE DE CARBONE, DE PHOSPHATES CONTENUS DANS DES MATIÈRES PREMIÈRES

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Abstract (en)  
[origin: WO2019072814A1] The aim of the invention is to provide an improved method for the carbon-dioxide extraction of phosphates from raw materials, in which higher yields are achieved. This aim is achieved by a according to the invention in which (a) carbon dioxide is introduced into an aqueous, alcoholic or aqueous/alcoholic suspension of the raw material, (b) the carbon dioxide in the suspension is caused to act on the raw material under increased pressure, then (c) undissolved solid materials are separated out from the suspension, a liquid being obtained, and after that (d) phosphates dissolved in the liquid obtained in step c) are precipitated therefrom and separated from the liquid. The method is characterized in particular in that stages (a) and (b) are carried out in a continuously operating reactor until the pH of the suspension is  $\leq 6.9$ . The invention further relates to a processing system by means of which said method can be carried out.

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