

Title (en)  
PROCESS FOR FROTH FLOTATION

Title (de)  
VERFAHREN ZUR SCHAUMFLOTATION

Title (fr)  
PROCÉDÉ DE FLOTTATION PAR MOUSSE

Publication  
**EP 3817860 A1 20210512 (EN)**

Application  
**EP 19734426 A 20190704**

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Abstract (en)  
[origin: WO2020007971A1] The invention relates to a process for froth flotation of an ore to recover phosphate-containing materials from the ore, that includes adding a primary collector and a collector aid to the ore, next performing a conditioning step of the ore, wherein the primary collector is selected from the group consisting of an amphoteric surface-active compound, an anionic surface-active compound and combinations thereof; and the collector aid has the formula  $R_3-CO-O-A_n-R_4$  where  $R_3$  is a linear or branched, alkyl or hydroxyalkyl group having from 3 to 8 carbon atoms,  $R_4$  is a linear or branched, alkyl or hydroxyalkyl group having from 3 to 10 carbon atoms and at least one of  $R_3$  and  $R_4$  contains a hydroxyl group;  $A$  is either ethoxy, propoxy or butoxy and  $n$  is 0-10.

IPC 8 full level  
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