

[54] **PHOSPHATE FLOTATION WITH TRIBASIC ACIDS**

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[57] **ABSTRACT**

A phosphate ore flotation process subjects a phosphate ore containing silica and silicates to froth flotation in the

presence of a collector, said collector being a C₅₄ high molecular weight tribasic acid comprising three carboxylic functional groups, recovering the phosphate concentrate from the overflow, and removing the separated silica and silicates in the underflow. The tribasic acids should be used in conjunction with fuel oil, not only to reduce the reagent consumption, but also to increase the grade and recovery of phosphate concentrate.

7 Claims, No Sheets Drawing.

10 Pages Specification

The file of this unexamined application may be inspected and copies thereof may be purchased (849 O.G. 1221, Apr. 9, 1968).