

Title (en)  
METHOD TO DETECT AND COUNTERACT A CRANK IN A ROTARY KILN

Title (de)  
VERFAHREN ZUR ERKENNUNG UND ENTGEGENWIRKEN EINER GESAMTEN VERFORMUNG IN EINEM DREHROHROFEN

Title (fr)  
MÉTHODE POUR DÉTECTER ET CONTRER UNE DEFORMATION GLOBALE DANS UN FOUR ROTATIF

Publication  
**EP 3239635 B1 20190814 (EN)**

Application  
**EP 16167660 A 20160429**

Priority  
EP 16167660 A 20160429

Abstract (en)  
[origin: EP3239635A1] A system to detect and counteract a crank in a rotary kiln having a kiln shell (1) and arranged on tyres (2, 2') supported by support rollers (3, 3') comprises a displacement sensor (5) configured and arranged to sense a displacement of the support rollers (3, 3'), a controller (11), and a plurality of nozzles (7) or fans for dispensing a cooling fluid onto the kiln shell (1). The controller (11) is configured to receive data from the displacement sensor (5), to process the received data by applying a sine fit to the data and determine amplitude and phase, to compare the amplitude of the displacement to a threshold value, and to control a valve (13) to release a cooling fluid to the nozzles (7). The system enables detection of a kiln crank and a selective cooling of the kiln shell within a determined angular range ( $\pm$ ). A method is also claimed.

IPC 8 full level  
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CPC (source: EP)  
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