

Title (en)  
SAFETY MECHANISM FOR HOISTING DRUMS

Publication  
**EP 0064080 B1 19880525 (EN)**

Application  
**EP 81903165 A 19811105**

Priority  
US 20500980 A 19801107

Abstract (en)  
[origin: WO8201700A1] A safety system for applying an emergency brake (11) (224) to a hoist drum (11) (D) when abnormal loading, malfunction or excessive load handling speeds are encountered. A mechanical out-of-sync detector (20) (216) receives a first rotational input via suitable transmission components from the hoist motor (3) (M) and a second rotational signal via other transmission components from the drum (11) (D). A significant difference between these signals causes a differential action in the output means (29) (227) of the detector (20) (216) resulting in the application of the brake (11) (224). Application of the brake is enhanced by strong biasing means (74) (284) to apply the brake upon release of latch devices (76) (280) (332) associated with reset means. Centrifugal means (47) (97) prevent overspeed of the drum.

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IPC 8 full level  
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CPC (source: EP)  
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**WO 8201700 A1 19820527**; CA 1171069 A 19840717; DE 3176754 D1 19880630; EP 0064080 A1 19821110; EP 0064080 A4 19850701; EP 0064080 B1 19880525; ES 506932 A0 19830201; ES 8303235 A1 19830201; JP S57501680 A 19820916

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