

Title (en)  
DEFORMATION SAFETY FOR HEAVY ROLLS

Publication  
**EP 0170718 B1 19871223 (DE)**

Application  
**EP 84109561 A 19840810**

Priority  
EP 84109561 A 19840810

Abstract (en)  
1. Hub-shaped deformation-protection device capable of being inserted into the cylindrical hollow space of a large-size winding, such as an aluminum- or steel-tape winding, with the device having the form of a circular plate which has a cylindrical opening in its center, characterized in that said plate has a U-shaped cross-section, with the horizontal leg (6) thereof being concavely bent toward the outside, and with the inner leg (7) thereof, as compared to the axis of symmetry, being slightly inclined inwardly in relation thereto.

IPC 1-7  
**B65H 75/10**; **B65D 59/02**

IPC 8 full level  
**B65D 59/02** (2006.01); **B65H 75/18** (2006.01)

CPC (source: EP US)  
**B65D 59/02** (2013.01 - EP US); **B65H 75/185** (2013.01 - EP US)

Cited by  
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**EP 0170718 A1 19860212**; **EP 0170718 B1 19871223**; AT E31521 T1 19880115; DE 3468203 D1 19880204; US 4990040 A 19910205

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