

Title (en)  
Material braking apparatus.

Title (de)  
Materialbremsvorrichtung.

Title (fr)  
Dispositif de freinage de matériau.

Publication  
**EP 0021418 A1 19810107 (EN)**

Application  
**EP 80103594 A 19800625**

Priority  
US 7900450 W 19790626

Abstract (en)  
A braking apparatus (36) is provided for a supply spool (30) whereby material (12) drawn from the spool (30) will have a relatively uniform tension. The braking apparatus (36) includes a follower roller (40) in contact with the material (12) on the spool (30) and a brake portion (38) in adjustably controlled braking contact with a brake rotor (102) mounted for rotation with the spool (30). The follower roller (40) follows the decrease in the diametral amount of material on the spool and simultaneously moves the brake portion (38) toward the center of the brake rotor (102) wherein a uniform braking force on the spool (30) is maintained. In one embodiment, the supply spool (30) is mounted on a shuttle (14) of a cable-winding apparatus so that as the shuttle (14) rotates, centrifugal force will act on the follower roller (40) to urge it against the material (12) on the spool (30) and to move the brake portion (38) toward the center of the brake rotor (102) to maintain constant force on the material (12) being withdrawn from the spool (30).

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**B65H 59/043** (2013.01); **B65H 81/04** (2013.01)

Citation (search report)  
• DE 2739066 A1 19780316 - PIRELLI  
• [A] US 2588525 A 19520311 - HERTENSTEIN JR EDGAR W  
• [A] US 2266438 A 19411216 - NELSON OSCAR G  
• [A] US 2592595 A 19520415 - LEONARD PATTERSON CARREL  
• [A] DE 864965 C 19530129 - KABEL UND METALLWERKE NEUMEYER  
• [AD] US 3864188 A 19750204 - GRAWLEY CHARLES E, et al

Cited by  
CN104944233A; EP0027938B1

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