

Title (en)

Dyeing or bleaching apparatus for yarn packages

Title (de)

Vorrichtung zum Färben oder Bleichen von Garnspulen

Title (fr)

Dispositif pour la teinture ou le blanchiment des bobines de fil textile

Publication

EP 1489215 A2 20041222 (EN)

Application

EP 04076647 A 20040604

Priority

IT MI20031209 A 20030616

Abstract (en)

Dyeing or bleaching apparatus of yarns wound on reels or similar packages, comprising a plurality of small vertical dyeing boilers (15) arranged on a single circumference each suitable for receiving a mobile reel-holding shaft (13) able to be removed at the same time as the others for the subsequent centrifugal water-removal and drying operations, functioning in a reduced bath able to be impregnated even at fractional capacities with a constant bath ratio and productivity. <IMAGE>

IPC 1-7

D06B 5/16

IPC 8 full level

D06B 5/16 (2006.01)

CPC (source: EP US)

D06B 5/16 (2013.01 - EP US); **D06B 15/10** (2013.01 - EP); **D06B 21/00** (2013.01 - EP); **D06B 23/04** (2013.01 - EP)

Cited by

GB2404199B; ITBG20110009A1; CN102776736A

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EP 1489215 A2 20041222; **EP 1489215 A3 20050921**; BR PI0402218 A 20050125; CN 1572951 A 20050202; IT MI20031209 A0 20030616; IT MI20031209 A1 20041217; US 2004250575 A1 20041216

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