

## SECTION D — TEXTILES; PAPER

### D21 PAPER-MAKING; PRODUCTION OF CELLULOSE

#### D21C PRODUCTION OF CELLULOSE BY REMOVING NON-CELLULOSE SUBSTANCES FROM CELLULOSE-CONTAINING MATERIALS; REGENERATION OF PULPING LIQUORS; APPARATUS THEREFOR

##### Subclass index

##### PRODUCTION OF CELLULOSE

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#### **1/00 Pretreatment of the finely-divided materials before digesting** (of waste paper D21C 5/02) [1, 2006.01]

- 1/02 • with water or steam [1, 2006.01]
- 1/04 • with acid reacting compounds [1, 2006.01]
- 1/06 • with alkaline reacting compounds [1, 2006.01]
- 1/08 • with oxygen-generating compounds [1, 2006.01]
- 1/10 • Physical methods for facilitating impregnation [1, 2006.01]

#### **3/00 Pulping cellulose-containing materials** [1, 2006.01]

- 3/02 • with inorganic bases or alkaline reacting compounds, e.g. sulfate processes [1, 2006.01]
- 3/04 • with acids, acid salts, or acid anhydrides [1, 2006.01]
- 3/06 • • sulfur dioxide; sulfurous acid; bisulfites [1, 2006.01]
- 3/08 • • • calcium bisulfite [1, 2006.01]
- 3/10 • • • magnesium bisulfite [1, 2006.01]
- 3/12 • • • sodium bisulfite [1, 2006.01]
- 3/14 • • • ammonium bisulfite [1, 2006.01]
- 3/16 • • nitrogen oxides; nitric acid [1, 2006.01]
- 3/18 • with halogens or halogen-generating compounds (bleaching cellulose pulp D21C 9/12) [1, 2006.01]
- 3/20 • with organic solvents [1, 2006.01]
- 3/22 • Other features of pulping processes [1, 2006.01]
- 3/24 • • Continuous processes [1, 2006.01]
- 3/26 • • Multi-stage processes [1, 2006.01]
- 3/28 • • Prevention of foam [1, 2006.01]

#### **5/00 Other processes for obtaining cellulose, e.g. cooking cotton linters** [1, 2006.01]

- 5/02 • Working-up waste paper (mechanical processes for working-up waste paper D21B 1/08, D21B 1/32) [1, 2006.01]

#### **7/00 Digesters** [1, 2006.01]

- 7/02 • Rotary digesters [1, 2006.01]
- 7/04 • Linings [1, 2006.01]
- 7/06 • Feeding devices [1, 2006.01]
- 7/08 • Discharge devices [1, 2006.01]
- 7/10 • Heating devices [1, 2006.01]
- 7/12 • Devices for regulating or controlling [1, 2006.01]
- 7/14 • Means for circulating the lye [1, 2006.01]
- 7/16 • Safety devices [1, 2006.01]

#### **9/00 After-treatment of cellulose pulp, e.g. of wood pulp, or cotton linters** [1, 2006.01]

- 9/02 • Washing [1, 2006.01]
- 9/04 • • in diffusers [1, 2006.01]
- 9/06 • • in filters [1, 2006.01]
- 9/08 • Removal of fats, resins, pitch, or waxes [1, 2006.01]
- 9/10 • Bleaching [1, 2006.01]
- 9/12 • • with halogens or halogen-containing compounds (D21C 9/16 takes precedence) [1, 4, 2006.01]
- 9/14 • • • with ClO<sub>2</sub> or chlorites [1, 2006.01]
- 9/147 • • with oxygen or its allotropic modifications (D21C 9/16 takes precedence) [4, 2006.01]
- 9/153 • • • with ozone [4, 2006.01]
- 9/16 • • with per compounds [1, 2006.01]
- 9/18 • De-watering [1, 2006.01]

#### **11/00 Regeneration of pulp liquors** [1, 2006.01]

- 11/02 • of sulfite lye [1, 2006.01]
- 11/04 • of alkali lye [1, 2006.01]
- 11/06 • Treatment of pulp gases; Recovery of the heat content of the gases [1, 2006.01]
- 11/08 • • Deodorisation [1, 2006.01]
- 11/10 • Concentrating spent liquor by evaporation [1, 2006.01]
- 11/12 • Combustion of pulp liquors [1, 2006.01]
- 11/14 • • Wet combustion [1, 2006.01]