

Title (en)
Measuring roll

Title (de)
Messwalze

Title (fr)
Cylindre mesureur

Publication
EP 1331305 A2 20030730 (DE)

Application
EP 02025305 A 20021113

Priority
DE 10203321 A 20020129

Abstract (en)
The measurement roller, to monitor the pressure development in a press roller gap, has a roller mantle (1) of plastics with at least one encapsulated pressure sensor (2) to show the pressure applied to the web (3) passing through the roller gap during the rotation of the press roller. A transmitter (5) for the measured values is also within the roller mantle plastics, with an electrical connection (4) to the sensor. The plastics mantle is reinforced by filaments (8), to which the pressure sensor(s) and transmitter(s) are attached for additional strength. The press roller is only used as a measurement roller for a defined measurement time.

Abstract (de)
Die Erfindung betrifft einen Walzenmantel (1) aus Kunststoff sowie dessen Herstellung und Anwendung in Presswalzen zum Messen des Druckverlaufs in einem Pressspalt einer Maschine zur Herstellung und/oder Veredlung einer Papier-, Karton-, Tissue- oder einer anderen Faserstoffbahn (3). Die Druckmessung wird während der Rotation der Presswalze dadurch ermöglicht, dass sich im Kunststoff zumindest ein Drucksensor (2) befindet, wobei die Presswalze nur über eine begrenzte Mess-Zeit als Messwalze in der Maschine eingesetzt wird. <IMAGE>

IPC 1-7
D21F 3/06; **D21F 3/08**

IPC 8 full level
D21F 3/02 (2006.01); **D21F 3/06** (2006.01); **D21F 3/08** (2006.01)

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