

Title (en)  
Measuring roll

Title (de)  
Messwalze

Title (fr)  
Cylindre mesureur

Publication  
**EP 1331305 A3 20040121 (DE)**

Application  
**EP 02025305 A 20021113**

Priority  
DE 10203321 A 20020129

Abstract (en)  
[origin: EP1331305A2] 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.

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)

CPC (source: EP US)  
**B30B 3/005** (2013.01 - EP US); **B30B 9/20** (2013.01 - EP US); **D21F 3/0218** (2013.01 - EP US); **D21F 3/0227** (2013.01 - EP US);  
**D21F 3/06** (2013.01 - EP US); **D21F 3/08** (2013.01 - EP US)

Citation (search report)  
• [X] US 5699729 A 19971223 - MOSCHEL CHARLES [US], et al  
• [X] US 5562027 A 19961008 - MOORE ROBERT H [US]  
• [X] EP 1130485 A1 20010905 - HILZINGER GUMMIWALZEN GMBH & C [DE]  
• [PX] WO 02066239 A1 20020829 - METSO PAPER INC [FI], et al  
• [E] US 2002179270 A1 20021205 - GUSTAFSON ERIC J [US], et al

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)  
**EP 1331305 A2 20030730**; **EP 1331305 A3 20040121**; CA 2417515 A1 20030729; DE 10203321 A1 20030814; US 2003144119 A1 20030731

DOCDB simple family (application)  
**EP 02025305 A 20021113**; CA 2417515 A 20030128; DE 10203321 A 20020129; US 35273803 A 20030128