

Title (en)

Pressing apparatus with membrane

Title (de)

Pressenvorrichtung mit einer Membrane

Title (fr)

Dispositif de presse avec une membrane

Publication

EP 1088934 A3 20030312 (EN)

Application

EP 00121132 A 20000928

Priority

- US 40928799 A 19990930
- US 40979499 A 19990930

Abstract (en)

[origin: EP1088934A2] An apparatus for processing a continuous web having a first side and a second side includes a plurality of rollers arranged for cooperative rotation. The plurality of rollers are positioned to define a corresponding plurality of nips. The continuous web is processed through at least two of the plurality of nips. At least a first roller of the plurality of rollers has at least one void formed in the cylindrical middle surface. First and second sealing panels engage first and second circular ends of each of the plurality of rollers and define a chamber. A first pressure source is fluidly coupled to the chamber to pressurize the chamber. A membrane is positioned adjacent the first side of the continuous web to separate the continuous web from direct communication with the chamber. The membrane is structured and adapted to have a permeability which permits a predetermined fluid flow therethrough to the continuous web, and structured and adapted for communicating with the pressurized chamber and the at least one void to apply a mechanical pressing force to the continuous web. <IMAGE>

IPC 1-7

D21F 3/02

IPC 8 full level

D21F 3/02 (2006.01); **D21F 3/04** (2006.01)

CPC (source: EP)

D21F 3/0254 (2013.01); **D21F 3/0263** (2013.01); **D21F 3/0272** (2013.01); **D21F 3/029** (2013.01)

Citation (search report)

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EP1298248A1; US6875310B2; US6702924B2

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