

654

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Title: Detecting unit for measuring properties paper web moving in printing press i.e. fset printer, to detect water content paper web, has calculating unit determining measure relating to properties paper web from signal

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Abstract: NOVELTY - The unit (50) has a transmitter (52) provided to emit electromagnetic radiation with a frequency in the range 0.1 to 10 terahertz toward a paper web (12) moving in a printing press. A receiver (54) is provided for receiving electromagnetic radiation being transmitted through or reflected by the paper web and creating a signal representing the received radiation. A controller includes an input channel for receiving the signal. A calculating unit determines a measure relating to the properties the paper web from the signal.

USE - Detecting unit for measuring properties a paper web moving in a printing press i.e. fset printer, to detect water content the paper web.

ADVANTAGE - The unit can be installed in the printing unit lines to monitor and regulate the water content in the paper web before applying the ink by utilizing a fast regulating system, thus preventing unnecessary hydro expansion and compromised quality caused by color misalignments.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a method for detecting water content a moving paper web in a printing press.

DESCRIPTION DRAWING(S) - The drawing shows a schematic view a printing press including a regulating system.

Paper web (12)

Regulating system (40)

Detecting unit (50)

Transmitter (52)

Receiver (54)

Drawing:

Derwent Class Code(s): P74 (Printing: lining machines); S03 (Scientific Instrumentation, photometry, calorimetry); S06 (Electrophotography and Photography); T01 (Digital Computers)

Derwent Manual Code(s): S03-E04A5; S06-C03A; T01-J04

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