

Title (en)
A SHEET BREAK DETECTOR APPARATUS

Title (de)
VORRICHTUNG ZUR BRUCHDETEKTION EINER BAHN

Title (fr)
APPAREIL DETECTEUR DE RUPTURE DE FEUILLE

Publication
EP 0660898 B1 19960904 (EN)

Application
EP 93924356 A 19931019

Priority
• US 9309974 W 19931019
• US 98157992 A 19921125

Abstract (en)
[origin: WO9412724A1] A sheet break detector apparatus (10) is disclosed for detecting a sheet break in a dryer section (12) of a paper machine. The apparatus (10) includes a vacuum transducer (14) which is sensitive to the vacuum level within a vacuum roll (16) of a dryer section (12). The transducer (14) detects only a sudden change in vacuum level within the vacuum roll (16) resulting from a sheet break rather than a relatively gradual change in vacuum level resulting from an operator augmented vacuum level change. A guide device is connected to the transducer (14) and responsive to the transducer (14) for redirecting the sheet to a broke chute (22) upstream relative to the transducer (14) when the transducer (14) detects the sudden change in vacuum level. The arrangement is such that excessive wind-up of the broken sheet (W) around a dryer (24) of the dryer section (12) is inhibited.

IPC 1-7
D21F 7/04

IPC 8 full level
D21F 7/04 (2006.01)

CPC (source: EP KR)
D21F 7/04 (2013.01 - EP KR)

Cited by
EP1640497A3; DE102007000679A1; EP1640497A2; US7473335B2

Designated contracting state (EPC)
DE FR GB IT SE

DOCDB simple family (publication)
WO 9412724 A1 19940609; BR 9307486 A 19990824; CA 2150021 A1 19940609; CA 2150021 C 19980901; CN 1035076 C 19970604; CN 1088647 A 19940629; DE 660898 T1 19960118; DE 69304545 D1 19961010; DE 69304545 T2 19970206; EP 0660898 A1 19950705; EP 0660898 B1 19960904; FI 952548 A0 19950524; FI 952548 A 19950524; JP 2562799 B2 19961211; JP H07507604 A 19950824; KR 950704569 A 19951120; MX 9307387 A 19940630; MY 110025 A 19971129; PL 172455 B1 19970930; PL 308218 A1 19950724; TW 229270 B 19940901

DOCDB simple family (application)
US 9309974 W 19931019; BR 9307486 A 19931019; CA 2150021 A 19931019; CN 93114519 A 19931116; DE 69304545 T 19931019; DE 93924356 T 19931019; EP 93924356 A 19931019; FI 952548 A 19950524; JP 51312094 A 19931019; KR 19950702070 A 19950523; MX 9307387 A 19931124; MY PI19932420 A 19931118; PL 30821893 A 19931019; TW 82109841 A 19931123