

Title (en)  
Sealing device

Title (de)  
Dichtungseinrichtung

Title (fr)  
Dispositif d'étanchéité

Publication  
**EP 1350890 A2 20031008 (DE)**

Application  
**EP 03001609 A 20030124**

Priority  
DE 10214134 A 20020328

Abstract (en)  
An adjustable stop (26) limits pivoting motion of the seal (20) in the contact direction. This controls the pressure with which the working section (28) of the seal (20) is pressed against the moving surface (12). The seal is hinged (22), or alternatively pivots on a flexible region. The force acting on the stop is compensated; it arises from pressure difference between the two sides of the seal. The seal is wear-resistant because it is thick and/or is made of a suitable material. The stop adjusts the contact pressure such that the seal still works with the moving surface, but there is no contact on reaching a given speed. The stop is adjustable in the opposite direction. It is a sealing strip lying across the running direction of the moving surface. It is elastic or spring-loaded against the surface. It is resilient in the sealing region. The section between the sealing region and the pivot axis is comparatively rigid. It forms a gap with the moving surface in the running direction. Further configurations are elaborated. Lubricant is provided for the seal and/or the moving surface, through a sprayer pipe (42). The seal extends over the entire length of the roller.

Abstract (de)  
Eine Dichtungseinrichtung (10) zur seitlichen Abdichtung wenigstens einer an eine bewegten Fläche (12) angrenzenden Überdruck- oder Unterdruckzone in einer Papiermaschine umfasst wenigstens ein der bewegten Fläche gegenüberliegendes Dichtelement (20), das schwenkbar gelagert und durch Verschwenken an die bewegte Fläche anlegbar ist. Es ist ein die Schwenkbewegung des Dichtelements in Anlegerichtung begrenzender verstellbarer Anschlag (26) vorgesehen, über den die Anpresskraft, mit der ein mit der bewegten Fläche zusammenwirkender Dichtabschnitt (28) des Dichtelements an die bewegte Fläche anpressbar ist, entsprechend veränderbar bzw. einstellbar ist. <IMAGE>

IPC 1-7  
**D21F 3/10**

IPC 8 full level  
**D21F 3/10** (2006.01)

CPC (source: EP)  
**D21F 3/10** (2013.01)

Cited by  
CN103046421A; CN106715792A; DE102012207692A1; DE102012213544A1; WO2013167656A1; WO2005035868A1

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