

Title (en)  
HEADBOX AND METHOD FOR APPLYING COATING COMPOSITIONS ONTO A MOVING WET PULP SUBSTRATE USING SAID HEADBOX

Title (de)  
STOFFAUFLAUF UND VERFAHREN ZUM AUFTRAGEN VON BESCHICHTUNGSZUSAMMENSETZUNGEN AUF EIN BEWEGENDES NASSPULPESUBSTRAT UNTER VERWENDUNG DIESES STOFFAUFLAUFS

Title (fr)  
CAISSE DE TÊTE ET PROCÉDÉ D'APPLICATION DE COMPOSITIONS DE REVÊTEMENT SUR UN SUBSTRAT DE PÂTE HUMIDE MOBILE À L'AIDE DE LADITE CAISSE DE TÊTE

Publication  
**EP 4379130 A1 20240605 (EN)**

Application  
**EP 22210936 A 20221201**

Priority  
EP 22210936 A 20221201

Abstract (en)  
A headbox (1) for a paper machine, in particular a secondary headbox for applying a stream of a coating composition onto a moving wet pulp substrate in a paper machine, comprising a stock chamber (2), a stilling chamber (3), a slice chamber (4), a valve assembly for controlling the flow of coating composition from the stock chamber (2) into the stilling chamber (3) and for controlling the flow of coating composition from the stilling chamber (3) to the slice chamber (4), wherein the valve assembly comprises a rotatable valve body (5) and a valve case body (6), said rotatable valve body (5) being located within the valve case body (6), wherein said rotatable valve body (5) is rotatable into a closed state and into one or more opened states, wherein said rotatable valve body (5) comprises a first and second sealing element (7, 8) and said valve case body (6) comprises a first and second sealing surface (9, 10), wherein in an open state, the first sealing element (7) is at a first distance d1 from the first sealing surface (9) on the valve case body (6) forming a first clearance and thereby fluidly connecting the stock chamber (2) to the stilling chamber (3) and the second sealing element (8) is at a second distance d2 from the second sealing surface (10) on the valve case body (6) forming a second clearance and thereby fluidly connecting the stilling chamber (3) to the slice chamber (4), and wherein in an open state, the first clearance is larger than the second clearance.

IPC 8 full level  
**D21F 1/02** (2006.01); **D21H 23/24** (2006.01)

CPC (source: EP)  
**D21F 1/026** (2013.01); **D21F 1/028** (2013.01); **D21H 23/14** (2013.01); **D21H 23/26** (2013.01)

Citation (search report)  
• [A] US 5104011 A 19920414 - CLARKE-POUNDER IAN J H [US], et al  
• [A] US 5456804 A 19951010 - LUTHI OSCAR [US]

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**EP 4379130 A1 20240605**; WO 2024115610 A1 20240606

DOCDB simple family (application)  
**EP 22210936 A 20221201**; EP 2023083624 W 20231129