

Title (en)
CONTACT CLEANING APPARATUS

Title (de)
KONTAKTREINIGUNGSVORRICHTUNG

Title (fr)
APPAREIL DE NETTOYAGE DE CONTACT

Publication
EP 4114586 B1 20240529 (EN)

Application
EP 21713297 A 20210226

Priority

- GB 202002942 A 20200301
- GB 202101993 A 20210212
- US 2021019863 W 20210226

Abstract (en)

[origin: WO2021178236A1] The present invention relates to a contact cleaning apparatus for a sheet substrate (80) having a curved leading edge (82). The contact cleaning apparatus comprises an elastomeric cleaning roller (24) and an air supply manifold (40) configured and arranged to direct air towards a contact zone on the elastomeric roller; and a conveyor (16) for carrying a sheet substrate to be cleaned towards the elastomeric cleaning roller, wherein the air supply manifold configured and arranged to a direct stream of air onto a leading edge of the curved sheet and/or onto the contact zone of the elastomeric cleaning roller such that the sheet is flattened at the point of contact with the cleaning roller. A contact cleaning apparatus for a sheet substrate having a curved leading edge comprising a flattening means is also disclosed. The flattening means is disposed proximate a first conveyor and is configured to operably engage the curved leading edge of the sheet substrate such that the curved leading edge of the sheet substrate is flattened at a point of contact with the elastomeric cleaning roller.

IPC 8 full level
B08B 1/20 (2024.01); **B08B 1/32** (2024.01)

CPC (source: EP GB KR)
B08B 1/143 (2024.01 - KR); **B08B 1/20** (2024.01 - EP GB KR); **B08B 1/32** (2024.01 - KR); **B08B 1/34** (2024.01 - EP);
B08B 1/50 (2024.01 - EP KR); **B08B 6/00** (2013.01 - EP GB KR); **B08B 7/0028** (2013.01 - EP KR); **B65H 23/24** (2013.01 - GB KR)

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 MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2021178236 A1 20210910; CN 115397571 A 20221125; EP 4114586 A1 20230111; EP 4114586 B1 20240529;
GB 202002942 D0 20200415; GB 202101993 D0 20210331; GB 2593289 A 20210922; GB 2593289 B 20230201; JP 2023515866 A 20230414;
JP 7519456 B2 20240719; KR 20220146629 A 20221101

DOCDB simple family (application)
US 2021019863 W 20210226; CN 202180028089 A 20210226; EP 21713297 A 20210226; GB 202002942 A 20200301;
GB 202101993 A 20210212; JP 2022552665 A 20210226; KR 20227034031 A 20210226