

Title (en)

PRINTED SHEET INSPECTION SYSTEM AND SHEET-FED PRINTING PRESS COMPRISING THE SAME

Title (de)

DRUCKBOGENINSPEKTIONSSYSTEM UND BOGENDRUCKMASCHINE DAMIT

Title (fr)

SYSTÈME D'INSPECTION DE FEUILLE IMPRIMÉE ET PRESSE D'IMPRESSION À LA FEUILLE COMPRENANT UN TEL SYSTÈME D'INSPECTION

Publication

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Application

EP 20165906 A 20200326

Priority

EP 19165187 A 20190326

Abstract (en)

There is described a printed sheet inspection system configured to inspect printed sheets (1) being transported by a transport cylinder (6) of a sheet-fed printing press, which printed sheet inspection system comprises an imaging unit (4) located proximate to a circumferential surface of the transport cylinder (6), which imaging unit (4) is configured to acquire an image of a printed surface of the printed sheet (1) as the printed sheet (1) moves past the imaging unit (4) under the action of the transport cylinder (6). The sheet inspection system further comprises a blowing unit (5) coupled to an air diffuser (2), which air diffuser (2) is positioned proximate to the circumferential surface of the transport cylinder (6) and extends along a portion of the circumferential surface of the transport cylinder (6), the blowing unit (5) and air diffuser (2) being configured to produce an air pressure zone (Z7) and form an air cushion zone (Z6), which air cushion zone (Z6) includes first and second lateral air cushion areas (Z6a, Z6b) laterally containing the air pressure zone (Z7), which air pressure zone (Z7) and air cushion zone (Z6) press the printed sheet (1) against the circumferential surface of the transport cylinder (6). A lower side of the air diffuser (2), which is positioned proximate to the circumferential surface of the transport cylinder (6), is provided with a diffuser opening (20) that extends both in the lateral and circumferential directions, which diffuser opening (20) faces the circumferential surface of the transport cylinder (6), the air pressure zone (Z7) and air cushion zone (Z6) coinciding with a shape and position of the diffuser opening (20).

IPC 8 full level

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CPC (source: EP)

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Citation (applicant)

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Designated contracting state (EPC)

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