

Title (en)

PRINTING SYSTEM OF OFFSET ROTARY PRESS AND OFFSET ROTARY PRESS

Title (de)

DRUCKSYSTEM EINER OFFSETROTATIONSDRUCKMASCHINE UND OFFSETROTATIONSDRUCKMASCHINE

Title (fr)

SYSTÈME D'IMPRESSION DE PRESSE ROTATIVE OFFSET ET PRESSE ROTATIVE OFFSET

Publication

EP 4166334 A1 20230419 (EN)

Application

EP 22199680 A 20221004

Priority

JP 2021169383 A 20211015

Abstract (en)

There is provided a printing system of an offset rotary press in which an emulsification state of ink can be grasped at real time and make it appropriate on quickly so that a good printing quality can be maintained from the start to the end of printing which results in reduction of paper loss. The printing system of an offset rotary press 1 comprising a light source 32 that irradiates irradiation light 71 on a surface of a plate cylinder 6 of a printing unit 5, a camera 33 for shooting reflected light 72 of the irradiated irradiation light 71 and a control device 56 for bifurcating a shot image of the camera 33 into a high brightness region and a low brightness region of reflected light 72 and calculates an area ratio of the region of high brightness of the reflected light 72 with respect to the entire area of the shot image of the camera 33, wherein if the area ratio in the high brightness region of the reflected light 72 calculated by the control means 56 is high, the dampening water supply of the dampening water device 11 is controlled such that an appropriate emulsification state of ink is obtained.

IPC 8 full level

B41F 31/00 (2006.01); **B41F 33/00** (2006.01)

CPC (source: EP)

B41F 31/002 (2013.01); **B41F 33/0009** (2013.01); **B41F 33/0027** (2013.01); **B41F 33/0045** (2013.01); **B41F 33/0063** (2013.01); **B41P 2233/11** (2013.01); **B41P 2233/12** (2013.01)

Citation (applicant)

JP 2005007769 A 20050113 - MITSUBISHI HEAVY IND LTD

Citation (search report)

- [X] JP 2003182038 A 20030703 - TOPPAN PRINTING CO LTD
- [X] JP 2002292832 A 20021009 - MITSUBISHI HEAVY IND LTD, et al
- [XA] JP H0321455 A 19910130 - MITSUBISHI HEAVY IND LTD

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 4166334 A1 20230419; **EP 4166334 B1 20240306**; CN 115972763 A 20230418; JP 2023059395 A 20230427; JP 7473219 B2 20240423

DOCDB simple family (application)

EP 22199680 A 20221004; CN 202211187838 A 20220928; JP 2021169383 A 20211015