

Title (en)

HEATING DEVICE, FIXING DEVICE, AND IMAGE FORMING APPARATUS

Title (de)

HEIZVORRICHTUNG, FIXIERVORRICHTUNG UND BILDERZEUGUNGSVORRICHTUNG

Title (fr)

DISPOSITIF DE CHAUFFAGE, DISPOSITIF DE FIXATION ET APPAREIL DE FORMATION D'IMAGES

Publication

**EP 3761120 A1 20210106 (EN)**

Application

**EP 20181344 A 20200622**

Priority

- JP 2019126051 A 20190705
- JP 2020034908 A 20200302

Abstract (en)

A heating device (5) includes a rotating member (21), an opposite member (22), a nip formation member (24), a heater (23), and a structure (25, 26) upstream and downstream from the heater (23) in a recording medium conveyance direction. The structure (25, 26) blocks light from the heater (23) and forms a light irradiated area (R) on a surface of the rotating member (21). On a cross section intersecting a rotation axis direction of the opposite member (22), the light irradiated area (R) is formed between a point with a first distance (K1) from an upstream end of the nip (N) along the rotating member (21) in a direction opposite to a rotation direction of the rotating member (21) and a point with a second distance (K2) longer than the first distance (K1) from a downstream end of the nip (N) along the rotating member (21) in the rotation direction.

IPC 8 full level

**G03G 15/20** (2006.01); **B41J 11/00** (2006.01)

CPC (source: EP US)

**G03G 15/2017** (2013.01 - EP); **G03G 15/2053** (2013.01 - EP); **G03G 15/2064** (2013.01 - EP US); **G03G 15/2042** (2013.01 - EP); **G03G 2215/2035** (2013.01 - EP)

Citation (applicant)

JP 2009093141 A 20090430 - SAMSUNG ELECTRONICS CO LTD

Citation (search report)

- [XAI] EP 2778794 A1 20140917 - RICOH CO LTD [JP]
- [XAI] US 2011020018 A1 20110127 - TAKENAKA KOHTA [JP], et al
- [XAI] EP 3358423 A1 20180808 - KONICA MINOLTA INC [JP]
- [XAI] US 2017010570 A1 20170112 - FUJIMOTO IPPEI [JP], et al
- [A] US 2018356754 A1 20181213 - YOSHINAGA HIROSHI [JP], et al

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 3761120 A1 20210106**

DOCDB simple family (application)

**EP 20181344 A 20200622**