

Title (en)

Drier for strips or foils of photographic films.

Title (de)

Vorrichtung zum Trocknen von band- oder blattförmigen, fotografischen Schichtträgern.

Title (fr)

Appareil de séchage des films photographiques en forme de ruban ou de feuille.

Publication

EP 0070390 A1 19830126 (DE)

Application

EP 82105263 A 19820616

Priority

DE 3124688 A 19810624

Abstract (en)

[origin: US4485565A] A drying arrangement for strips or sheets of photosensitive material includes a pair of infrared heating rods which are located on opposite sides and extend transversely of the path of travel of the photosensitive material. A parabolic reflector is associated with each of the heating rods and serves to direct radiant energy from the same onto the photosensitive material. The heating rods lie at the focal points of the respective parabolic reflectors. Each of the reflectors has a symmetry plane which is inclined with reference to the path of the photosensitive material in such a manner that the line of intersection of the symmetry plane and the path is situated downstream of the location where a perpendicular from the focal point of the reflector to the path intersects the latter. By virtue of this arrangement, more radiant energy is directed to the upstream portion of the drying arrangement than to the downstream portion thereof. As a result, a thermal gradient exists in the drying arrangement. This gradient corresponds to the degree of dryness of the photosensitive material. Thus, the radiant energy is most intense in that portion of the drying arrangement where the photosensitive material carries the most liquid and least intense in that portion of the drying arrangement where the photosensitive material is virtually dry.

Abstract (de)

Die Vorrichtung zum Trocknen von band- oder blattförmigen, fotografischen Schichtträgern weist Trocknungszellen auf, die auf beiden Seiten des Transportweges (6) des Schichtträgers zwischen Transportwalzenpaaren angeordnet sind und ein Gebläse und ein Heizelement (16) in Form eines im Brennpunkt eines Parabolspiegels (15) liegenden Heizstabes besitzen. Dabei ist die Schnittlinie (21) der Schichtträgerenebene (6) mit der Symmetrieebene (19) des Parabolspiegels (15) gegenüber dem Fußpunkt (20) des Lotes vom Brennpunkt des Parabolspiegels (15) auf die Schichtträgerenebene (16) in Papierlaufrichtung versetzt. Vorzugsweise schließt die Symmetrieebene (19) mit der Schichtträgerenebene (6) einen Winkel (α) von 60 bis 80° ein.

IPC 1-7

G03D 15/02

IPC 8 full level

G03D 15/02 (2006.01)

CPC (source: EP US)

G03D 15/022 (2013.01 - EP US)

Citation (search report)

- [Y] DE 932288 C 19550829 - SIEMENS AG
- [YD] DE 2323725 A1 19731129 - MINNESOTA MINING & MFG
- [A] DE 2039206 A1 19720210 - AGFA GEVAERT AG
- [A] GB 2042291 A 19800917 - GEN ELECTRIC

Cited by

EP0557845A1

Designated contracting state (EPC)

CH FR GB IT LI

DOCDB simple family (publication)

EP 0070390 A1 19830126; EP 0070390 B1 19860122; DE 3124688 A1 19830113; DE 3124688 C2 19831208; DK 155239 B 19890306; DK 155239 C 19890918; DK 275882 A 19821225; JP H0145910 B2 19891005; JP S57212443 A 19821227; US 4485565 A 19841204

DOCDB simple family (application)

EP 82105263 A 19820616; DE 3124688 A 19810624; DK 275882 A 19820618; JP 9857182 A 19820610; US 38732982 A 19820611