

Title (en)
DEVICE FOR THE DEVELOPMENT OF MICROFILMS IN APERTURE CARDS

Publication
EP 0090391 A3 19850918 (DE)

Application
EP 83103042 A 19830327

Priority
DE 3211946 A 19820331

Abstract (en)
[origin: EP0090391A2] 1. Apparatus for developing punched card microfilms, in which the illuminated film is exposed to a developing fluid in a developer spray pot and is then fixed, characterised in that a radiator (2) emitting radiation which is ineffective in illuminating the film is mounted in the developing area (1) of the developer spray spot (6), and the radiation from the radiator (2) is aimed either directly or indirectly towards a sensor (3) which is arranged in a position of action thereto and which responds to the radiation, the radiator (2) and sensor (3) being arranged so that the radiation is passed to the sensor through a relatively large part of the illuminated area of the film material (4) being developed, whilst the developing process is terminated by means of the output current from the sensor (3) when the film material reaches a given optical density over the abovementioned area.

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G03D 5/04

IPC 8 full level
G03D 5/04 (2006.01)

CPC (source: EP)
G03D 5/04 (2013.01)

Citation (search report)
• [A] US 3886576 A 19750527 - STOFFEL DONALD J
• [A] GB 1319786 A 19730606 - COSMOCORD LTD
• [A] US 3388652 A 19680618 - PARRENT JR GEORGE B

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI SE

DOCDB simple family (publication)
EP 0090391 A2 19831005; EP 0090391 A3 19850918; EP 0090391 B1 19880525; AT E34625 T1 19880615; AU 1295183 A 19831006; DE 3211946 A1 19831013; DE 3376765 D1 19880630; JP S58181042 A 19831022

DOCDB simple family (application)
EP 83103042 A 19830327; AT 83103042 T 19830327; AU 1295183 A 19830329; DE 3211946 A 19820331; DE 3376765 T 19830327; JP 5406883 A 19830331