

Title (en)

ALKALINE BLACK-AND-WHITE PHOTOGRAPHIC DEVELOPER

Publication

**EP 0446457 A3 19920226 (EN)**

Application

**EP 90124427 A 19901217**

Priority

IT 1964590 A 19900312

Abstract (en)

[origin: EP0446457A2] Alkaline aqueous black-and-white photographic developer for processing of silver halide radiographic materials comprising (1) a hydroquinone, (2) a 3-pyrazolidone developing agent, (3) a dialdehyde hardener, (4) antifoggants, (5) a sequestering agent, (6) a sulfite antioxidant, and (7) a buffering agent wherein said sequestering agent is a cyclicaminomethane diphosphonic acid compound. Preferably, the antifoggants comprise a combination of a benzotriazole-type antifoggant, an indazole-type antifoggant and a mercaptotetrazole-type antifoggant.

IPC 1-7

**G03C 5/30**; **G03C 5/305**

IPC 8 full level

**G03C 5/16** (2006.01); **G03C 5/30** (2006.01); **G03C 1/00** (2006.01); **G03C 5/305** (2006.01); **G03D 3/08** (2006.01)

CPC (source: EP)

**G03C 5/3053** (2013.01)

Citation (search report)

- [A] EP 0136582 A2 19850410 - MINNESOTA MINING & MFG [US]
- [AD] US 4810622 A 19890307 - YAMADA MINORU [JP], et al
- [AD] EP 0286874 A1 19881019 - MINNESOTA MINING & MFG [US]
- [A] US 4264716 A 19810428 - VINCENT SHERIDAN E, et al
- [A] US 3994730 A 19761130 - FRANK KARL, et al

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Designated contracting state (EPC)

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DOCDB simple family (publication)

**EP 0446457 A2 19910918**; **EP 0446457 A3 19920226**; **EP 0446457 B1 19961030**; DE 69029032 D1 19961205; DE 69029032 T2 19970306; IT 1240596 B 19931217; IT 9019645 A0 19900312; IT 9019645 A1 19910912; JP 2989289 B2 19991213; JP H04219753 A 19920810

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**EP 90124427 A 19901217**; DE 69029032 T 19901217; IT 1964590 A 19900312; JP 4347491 A 19910308