

Title (en)  
Radiographic intensifying screen-film combination

Title (de)  
Kombination eines radiographischen Verstärkungsschirms mit einem Film

Title (fr)  
Structure radiographique combinant un film et un écran intensificateur

Publication  
**EP 0930527 A1 19990721 (EN)**

Application  
**EP 98200061 A 19980113**

Priority  
EP 98200061 A 19980113

Abstract (en)  
A radiographic screen/film combination has been described comprising a duplitized film sandwiched between a pair of supported or self-supporting X-ray intensifying screens, characterized in that i) said pair of supported or self-supporting X-ray intensifying screens comprises luminescent phosphor particles emitting at least 50 % of their emitted radiation in the wavelength range between 540 and 555 nm, ii) said film comprises, in a light-sensitive silver halide emulsion layer, cubic,  $\bar{a}100\bar{u}$  or  $\bar{a}111\bar{u}$  tabular silver halide grains rich in silver chloride, spectrally sensitized to irradiation in the said wavelength range between 540 and 555 nm by a combination of green sensitizing dyes, being -a benzimidacarbocyanine dye according to the formula (I), given in the description and in the claims and a benzoxacarbocyanine dye corresponding to the general formula (II) given in the description and in the claims. Said radiographic screen/film combination has luminescent phosphor particles, preferably gadolinium oxisulphide phosphor particles, emitting at least 80 % of their emitted radiation in the wavelength range between 540 and 555 nm.

IPC 1-7  
**G03C 1/29**; **G03C 1/18**; **G03C 1/005**; **G03C 5/17**

IPC 8 full level  
**G03C 1/29** (2006.01); **G03C 5/16** (2006.01); **G03C 5/17** (2006.01); **G03C 1/005** (2006.01); **G03C 1/18** (2006.01)

CPC (source: EP)  
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Citation (search report)  

- [DA] EP 0506584 A1 19920930 - EASTMAN KODAK CO [US]
- [X] DATABASE WPI Section Ch Week 9743, Derwent World Patents Index; Class E23, AN 97-461706, XP002065763
- [X] PATENT ABSTRACTS OF JAPAN vol. 097, no. 009 30 September 1997 (1997-09-30)
- [X] PATENT ABSTRACTS OF JAPAN vol. 097, no. 003 31 March 1997 (1997-03-31)
- [X] PATENT ABSTRACTS OF JAPAN vol. 097, no. 002 28 February 1997 (1997-02-28)

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