

Title (en)

SPIROBIPYRANES, THEIR USE AND PRESSURE-SENSITIVE COPYING MATERIALS CONTAINING THEM

Publication

EP 0000900 B1 19810114 (DE)

Application

EP 78100629 A 19780809

Priority

DE 2737207 A 19770818

Abstract (en)

[origin: US4161589A] Spirodipyrans of the formula <IMAGE> where A is the radical of a fused benzene ring or 2,1-naphthalene ring, the rings being unsubstituted or substituted by alkyl, alkoxy, nitro, chlorine, bromine or carbalkoxy, R1 is alkyl, phenyl, substituted alkyl or phenalkyl and R2 is hydrogen, or R1 and R2 together are trimethylene which is unsubstituted or substituted by 1, 2 or 3 alkyl and B is N-morpholinyl, substituted morpholinyl, thiomorpholinyl-S-dioxide, N-(N'-alkyl)-piperazinyl or N-isoindolinyl, AND PRESSURE-SENSITIVE RECORDING MATERIALS CONTAINING THESE SPIRODIPYRANS AS DYE-FORMING COMPONENTS.

IPC 1-7

C07D 493/10; B41M 5/16

IPC 8 full level

C07D 493/06 (2006.01); **B41M 5/136** (2006.01); **B41M 5/15** (2006.01); **C07D 493/10** (2006.01); **C09B 57/00** (2006.01)

CPC (source: EP US)

B41M 5/15 (2013.01 - EP US); **C07D 493/10** (2013.01 - EP US)

Designated contracting state (EPC)

CH DE FR GB

DOCDB simple family (publication)

EP 0000900 A1 19790307; EP 0000900 B1 19810114; DE 2737207 A1 19790301; DE 2860328 D1 19810312; JP S5441880 A 19790403; US 4161589 A 19790717

DOCDB simple family (application)

EP 78100629 A 19780809; DE 2737207 A 19770818; DE 2860328 T 19780809; JP 10012578 A 19780818; US 93201578 A 19780808