



(51) International Patent Classification:

C07C 249/02 (2006.01) C07D 213/53 (2006.01)
C07C 319/24 (2006.01) C07D 307/52 (2006.01)
C07D 213/127 (2006.01) C07D 333/22 (2006.01)

(21) International Application Number:

PCT/EP2011/070488

(22) International Filing Date:

18 November 2011 (18.11.2011)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

10191863.9 19 November 2010 (19.11.2010) EP

(71) Applicant (for all designated States except US):

SALTIGO GMBH [DE/DE]; Katzbergstraße 1, 40764
Langenfeld (DE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): COTTE, Alain
[FR/DE]; Gronenborner Weg 13, 51377 Leverkusen (DE).
GOTTA, Matthias [DE/DE]; Egger Weg 5, 51399
Burscheid (DE). GOOBEN, Lukas [DE/DE]; Silkebergstr.
15, 67663 Kaiserslautern (DE). RUDOLPHI, Felix
[DE/DE]; Kurt-Schumacher-Str. 66, 67663 Kaiserslautern
(DE). SONG, Bingrui [CN/DE]; Ziegelstr. 59, 67655
Kaiserslautern (DE).

(74) Agent: PETTRICH, Klaus-Günter; Lanxess Deutschland
GmbH, 51369 Leverkusen (DE).

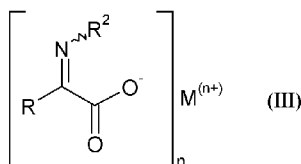
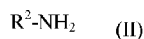
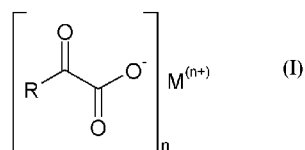
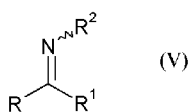
(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR,
KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME,
MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ,
OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD,
SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR,
TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ,
UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU,
TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE,
DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU,
LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK,
SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(54) Title: PROCESS FOR PREPARING AZOMETHINES FROM ALPHA-OXOCARBOXYLATES, AMINES AND ARYL
BROMIDES



(57) Abstract: A process for preparing azomethines of the general formula (V) where R is an optionally substituted carbocyclic aromatic radical having 6 to 24 carbon atoms or an optionally substituted alkyl radical or an optionally substituted heteroaromatic radical having 5 to 24 carbon atoms, and R¹ is an optionally substituted carbocyclic aromatic radical having 6 to 24 carbon atoms or an optionally substituted heteroaromatic radical having 5 to 24 carbon atoms, R² is hydrogen or an optionally substituted carbocyclic aromatic radical having 6 to 24 carbon atoms or an optionally substituted alkyl radical or an optionally substituted cycloalkyl radical or an optionally substituted heteroaromatic radical having 5 to 24 carbon atoms by reacting alpha-oxo carboxylates of the general formula (I) where n is a number in the range from 1 to 6, M⁽ⁿ⁺⁾ is a cation, with aryl bromides of the general formula (IV) and amines of the general formula (II) via the alpha-iminocarboxylate intermediate of the general formula (III), in the presence of two transition metals or compounds thereof as catalyst, is described.