

Title (en)  
HALOGENATION USING HALO-VILSMEIER REAGENT.

Title (de)  
HALOGENIERUNG DURCH HALO-VILSMEIER REAGENZ.

Title (fr)  
HALOGENATION A L'AIDE D'UN REACTIF HALO-VILSMEIER.

Publication  
**EP 0643723 A1 19950322 (EN)**

Application  
**EP 93902957 A 19930106**

Priority  
• US 81717992 A 19920106  
• US 94134892 A 19920904  
• US 9300079 W 19930106

Abstract (en)  
[origin: WO9314106A1] The invention provides an improved process for the preparation of a halogenated steroidal diene. The process involves the simultaneous transformation of the steroidal 3-one to 3-halo and 17-carboxylic acid to 17-carboxamide in a single reaction without the isolation of an intermediate. The process takes place by reacting the steroidal starting material with a halogen-Vilsmeier reagent.

IPC 1-7  
**C07J 43/00**; **C07J 41/00**

IPC 8 full level  
**C07J 3/00** (2006.01); **C07J 9/00** (2006.01); **C07J 41/00** (2006.01); **C07J 43/00** (2006.01); **C07J 75/00** (2006.01)

IPC 8 main group level  
**C07C 235/00** (2006.01)

CPC (source: EP KR)  
**C07J 3/005** (2013.01 - EP); **C07J 9/00** (2013.01 - EP); **C07J 41/0066** (2013.01 - EP); **C07J 43/00** (2013.01 - KR)

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 9314106 A1 19930722**; AP 370 A 19941110; AP 9300473 A0 19930131; AU 3434893 A 19930803; AU 666167 B2 19960201; BG 98887 A 19950531; BR 9305786 A 19970218; CA 2127272 A1 19930722; CN 1077201 A 19931013; CZ 161994 A3 19950315; EP 0643723 A1 19950322; EP 0643723 A4 19950510; FI 943214 A0 19940705; FI 943214 A 19940705; HU 9402030 D0 19940928; HU T68273 A 19950628; IL 104302 A0 19930513; IL 104302 A 19980222; JP H07505138 A 19950608; KR 940703849 A 19941212; MA 22761 A1 19931001; MX 9300025 A 19940131; NO 942535 D0 19940705; NO 942535 L 19940705; NZ 246788 A 19961126; OA 09961 A 19951211; RU 94038223 A 19970420; SI 9300006 A 19930930; SK 80094 A3 19941207; TW 300226 B 19970311

DOCDB simple family (application)  
**US 9300079 W 19930106**; AP 9300473 A 19930105; AU 3434893 A 19930106; BG 9888794 A 19940705; BR 9305786 A 19930106; CA 2127272 A 19930106; CN 93101175 A 19930106; CZ 161994 A 19930106; EP 93902957 A 19930106; FI 943214 A 19940705; HU 9402030 A 19930106; IL 10430293 A 19930104; JP 51254293 A 19930106; KR 19940702343 A 19940705; MA 23050 A 19930105; MX 9300025 A 19930106; NO 942535 A 19940705; NZ 24678893 A 19930106; OA 60533 A 19940704; RU 94038223 A 19940705; SI 9300006 A 19930106; SK 80094 A 19930106; TW 82100552 A 19930129