

Search history

Search 1: FT=(ANTIMICROBIAL~ AND RECYCLIN~) (Results 0)
Search 2: FT=(ANTIMICROBIAL~ AND FILTER~) (Results 63305)

Title: A PROCESS FOR THE PREPARATION OF NOVEL N1-GLYCOSYLATED AND N3-SUBSTITUTED UREAS USEFUL AS ANTITUBERCULAR AGENTS

Family:

Publication number	Publication date	Application number	Application date
IN199556 B	00000000	IN2002DE00264	20020320

Probable Assignee: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH

Assignee(s): COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH

Inventor(s): ANIL SRIVASTAV A ; BRAHM SHANKER SRIVASTAVA ; KISHORE KUMAR SRIVASTAVA ; RAM CHANDRA MISRA ; RAMA PATI TRIPATHI ; RANJANA SRIVASTAVA ; SUDHIR SINHA ; VINITA CHATURVEDI ; VINOD KUMAR TIWARI

International class C07C311/58
(IPC 1-7):

Abstract:

A process for preparation of novel combinatorial library of N1 -glycosylated and N3 -substituted ureas and thioureas useful as antitubercular agents preparing activated sieber amide resin by treating the sieber amide resin with 20-90 % piperidine-dimethyl formamide or piperidine, coupling the activated amide resin with protecting group in presence of conventional coupling agent at a temperature in the range of 0-100 C for a period in the range of 1 to 12 hrs producing the resin bound compound, deprotecting protecting group by treating with 20-90 % piperidine in dimethyl formamide at 0 to 50 degrees C, followed by washing to get the free amino group resin bound substrate, the aminoacids in an organic solvent in presence of an organic base at the temperature in the range of 10 -100 degrees C for a period 1-48 hrs, washing the resin bound compound, followed by reacting the free amine resin bound compound with an aldehyde in an organic solvent at temperature ranging from 0 to 150 degrees C for a period 1-56 hrs and washing the reaction mixture to give the resin bound compound, reacting the resin bound compound with isocyanates or isothiocyanates in an organic solvent at a temperature in the range of 0 to 40 C for a period 1-56 hrs and washing the reaction mixture and cleaving the resin bound glycoconjugates to give N1 -glycosylated and N3 -substituted ureas and thioureas.

Title: HALOGENATED HYDROXY-DIPHENYL ETHERS

Priority: CH19630002250 19630222 CH19640001757 19640214 US19640345080 19640217
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 US19730330547 19730208

Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: CIBA GEIGY CORP

Assignee(s):(std): CIBA GEIGY AG ; CIBA GEIGY CORP ; GEIGY CHEM CORP ; GEIGY J R AG ; J R GEIGY A G BAZEL ZWITSERLAND ; JOHN HRINEVICH JR ; JR GEIGY BASLE AG ; WERKBUDE SPROLL

Assignee(s): JRGEIGY AG ; JR GEIGYA G ; JR GEIGY AG ; JR GEIGY A G ; J R GEIGY S A ; GEIGY J SA ; J R GEIGY AG ; GEIGY J AG ; J GEIGY AG ; J R GEIGY A G ; GEIGY CHEMICAL CORP ; CIBA GEIGY CORP US ; CIBA GEIGY BASEL SCHWEIZ AG

Inventor(s):(std): WERKBUDE SPROLL ; MODEL E ; MODEL DR ERNST ; JAKOB BINDLER DR ; MODEL ERNST DR ; MODEL ERNST ; GEIGY J AG ; ERNST MODEL DR ; BINDLER JAKOB DR ; BINDLER JAKOB ; BINDLER J ; BINDLER DR JAKOB ; BINDIER JAKOB

Inventor(s): BINDLER J CH ; ERNST MODEL ; MODEL E CH ; JAKOB BINDLER ; GEIGY J SA ; SPROLL WERKBUDE ; ERNEST MODEL AND JAKOB ZINDLER ; ERNST MODEL AND JAKOB ZINDLER

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International class (IPC 1-7): A01N31/14 A01N31/16 A01N37/00 A01N9/00 A01N9/20 A01N9/24 A01N9/26 A61K27/00 A61K31/055 A61K31/085 A61K31/215 A61L A61L13/00 C07C121/60 C07C121/75 C07C125/00 C07C125/06 C07C143/00 C07C15/12 C07C43/00 C07C43/20 C07C43/22 C07C43/23 C07C43/28 C07C43/29 C07C43/295 C07C45/67 C07C45/70 C07C69/00 C07C69/14 C07C69/16 C07C69/34 C07C69/50 C07C69/62 C07C69/78 C08K5/13 C11D3/00 C11D3/48 C11D9/50 D06M13/18 F21V21/22

CPC: F21V21/22 C07C45/673 C07C45/70 D06M16/00 A01N31/16 A01N37/00 C07C69/34 C08K5/13 C08K5/136 C11D3/48 A01N33/16 C07C43/295 Y10S514/949 A61K31/215 C07C43/29

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US class: 106/18.28 106/18.34 252/106 260/479 260/479R 260/613 260/613R 424/30.4 424/31.1 424/340 424/43 504/101 510/133 510/286 510/319 510/386 510/387 510/388 510/389 510/518 514/512 514/520 514/522 514/523 514/524 514/525 514/532 514/546 514/548 514/549 514/646 514/717 514/718 514/721 514/949 544/163 544/165 544/171 546/226 554/151 554/223 554/229 558/271 558/414 558/417 558/418 558/419 558/424 558/56 560/107 560/108 560/133 560/135 560/136 560/138 564/430 568/637

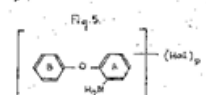
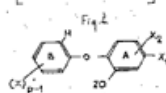
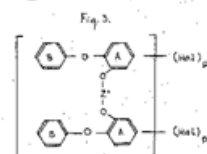
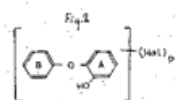
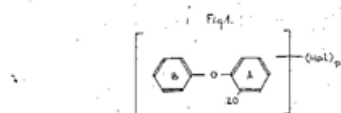
[Classification Explorer](#)

Cited documents: US3506720 A, US3489686 A, US3417146 A, US3405184 A, US3361795 A, US2950325 A, DE569726 A,

Forward Citations: WO9956738, WO9942650, WO9938830, WO9931036, WO9931036, WO9533715, WO18081004, WO18081003, WO18081001, WO18080998, WO18080995, WO18080991, WO18080988, WO18080987, WO15112671, WO14062879, WO13152271, WO11059715, WO11008547, WO05089552, WO05058802, WO05058267, WO05058266, WO05044784, WO04032704, WO04032704, WO03104187, WO0026447, WO0020366, US9907812, US9597072, US9597067, US9591849, US9499419, US9474524, US9174924, US9149273, US9045396, US9044531, US8980299, US8960422, US8790684, US8668867, US8664429, US8512681, US8399696, US8232422, US8163806, US8156718, US8133437, US8112973, US8053591, US8048980, US8026285, US7987539, US7705047, US7513093, US7494956, US7304018, US6825392, US6780799, US6716438, US6664309, US6610763, US6605581, US6596907, US6596657, US6552214, US6503952, US6391941, US6358906, US6299651, US6239317, US6215029, US6197072, US6133483, US5985931, US5968207, US5837274, US5834409, US5800803, US5765804, US5741663, US5686064, US5605676, US5578295, US5554635, US5525330, US5451401, US5447923, US5403864, US5368844, US5344641, US5334375, US5312618, US5294431, US5288480, US5286492, US5236699, US5192530, US5188821, US5180578, US5178851, US5149035, US5069717, US5037635, US5028261, US4975111, US4656031, US4587262, US4512987, US4490562, US4467117, US4355189, US4339462, US4326978, US4284828, US4282358, US4268693, US4118332, US4111844, US4098908, US4039588, US4011232, US4005213, US3989827, US3982022, US3968210, US3966826, US3929903, US3926644, US3908019, US3904696, US3875071, US3857954, US3816071, US3764696, US3759989, US3689665, US3445398, US3284362, US2011229539, US2010034871, US2009301033, US2009214628, US2009188860, US2009171388, US2009148492, US2009105352, US2009104242, US2009082540, US2009076174, US2008279794, US2008260667, US2008058393, US2007178220, US2006216252, US2006182693, US2006091034, US2005203178, US2005118240, US2005101993, US2004220614, US2004175352, US2004171323, US2004068293, US2002147432, TWI342875, KR100793462, JP61001615, JP49086535, JP48042986, JP2014522816, JP2009519308, JP1096496, FR2839448, FR2765469, FR2338052, FR2213020, FR2156688, FR2156688, EP3315173, EP3315172, EP3315171, EP3315120, EP3315119, EP3315118, EP3315117, EP2700396, EP2420239, EP2420238, EP2420236, EP2420230, EP1845960, EP1779846, EP1682493, EP1663138, EP1370228, EP1357948, EP1343449, EP1328245, EP1294367, EP1185417, EP1185417, EP1056901, EP0908553, EP0908553, EP0890309, EP0857711, EP0602891, EP0455475, EP0099177, EP0086745, EP0012108, DE3520325, DE2706841, AU2003277018,

Abstract:

ABSTRACT OF THE DISCLOSURE Halogenated-2-hydroxy-diphenyl ethers and esters thereof are useful in bactericidal compositions and methods for the protection of organic materials. Illustrative compounds are 4,2',4'-trichloro-2-hydroxy-diphenyl ether and 4,2',4'-trichloro-2-methoxy-diphenyl ether. of a total of from 2 to 19 carbon atoms, alkyl-sulfonyl of from 1 to 4 carbon atoms, bromo- and chloro-alkylsulfonyl wherein each alkyl is of from 1 to 4 carbon atoms, and chloro- and bromo-alkyl-carbonyl wherein "alkyl" is of from 1 to 4 carbon atoms, piperidinocarbonyl, and morpholino-carbonyl; "alkanoyl" in the definition of Y having preferably 2 to 4 carbon atoms; or (b) a compound of the formula This is a continuation-in-part of our copending application Ser. No. 345,080, filed Feb. 17, 1964, now aban-



0601783

2018-06-12

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Title: Stoevsuger, fortrinsvis industristoevsuger. Dust weeks, preferably industrial dust weeks. (Machine translation)

Priority: DK19450001172 19450623

Family:	Publication number	Publication date	Application number	Application date
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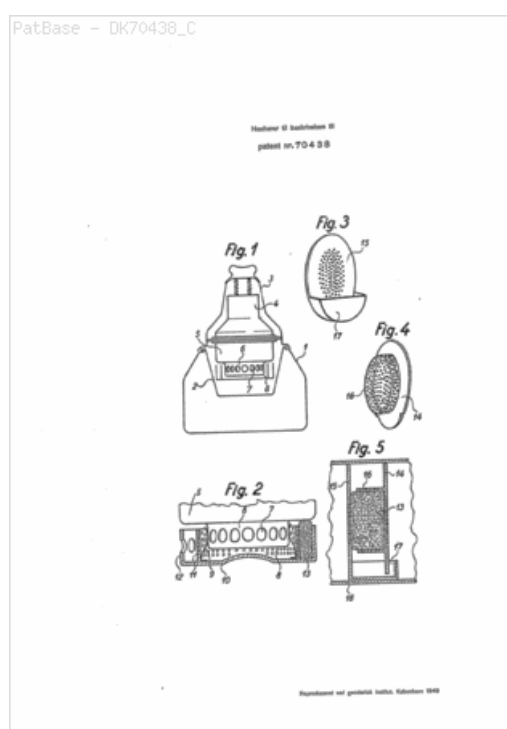
Probable Assignee:	FISKER AND NIELSEN AS
---------------------------	-----------------------

Assignee(s):(std): FISKER AND NIELSEN AS

Assignee(s): AKTIESELSKABET FISKEK AND NIELSEN

Abstract:

Source: DK70438C [DA] [Source: Claim 1] 1. lens bund ro, at den nedre del af skalen 8 udgoer en opsamlingsbund 10, 12, der kan op- samle en ret betydelig oliemaengde. De to ringvaegge 11 og 12 behoever ikke at vaere i eet stykke med skakens bund 10, men kan vaere forbundet med denne. Den nedre del af ring- vaeggen 12 ma altid findes for sammen med bunden 10 at danne en opsamlingsbund til op- tagelse af en ret betydelig vaedskemaengde, men ringvaeggen 11 og den oevrige del af ringvaeg- gen 12 kan taenkes erstattet af staltradsvaev. Eventuelt kan filtermaterialet 13 besta af trad- vaev, som er rullet i mange lag uden pa hin- anden til dannelselse af et ringformet legeme svarende til formen af filtermaterialet 13 i fig. **Machine translation:** [Source: Claim 1] 1. the bottom peace that the lower part of the skalen 8 represents a collection bottom 10, 12, which can be up- compile a significant quantity of oil. The two ring walls 11 and 12 need not be in one piece with the bottom skakens 10 but may be associated with this. The lower part of the ring-wall 12 ma always exist for together with the bottom 10 to form a collection bottom for up- readmission of a fairly substantial vaedskemaengde but ring wall 11 and the rest of the ring wall- gen 12 May is replaced by the figures traditional tissue. May the **filter** material 13 besta of traditional- tissues that are rolled in many layers without pa hin- second to the formation of a ring shaped body corresponding to the shape of the **filter** material 13 in Fig.



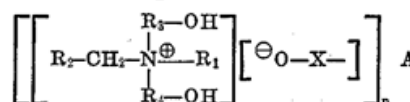
Title: QUATERNARY AMMONIUM ARYL CARBOXYLIC ACID SALTS**Priority:** 19440803 CH19690002897 19690226

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Probable Assignee: NAT MACHINERY CO**Assignee(s):(std):** CIBA GEIGY ; CIBA GEIGY AG ; CIBA LTD ; NAT MACHINERY CO**Assignee(s):** THE NATIONAL MACHINERY COMPANY ; NATIONAL MACHINERY CO ; CIBA S A ; CIBA S A A BALE SUISSE ; CIBA SA ; CIBA GEIGY AG CH ; CIBA GEIGY A G**Inventor(s):(std):** CASAGRANDE F ; CASAGRANDE FULVIO DR ; DUENNENBERGER MAX DR ; DUNNENBERGER M ; MACHINERY CO NATIONAL ; MACHINERY COMPANY THE NATIONAL ; DUENNENBERGER M ; SCHELLENBAUM M ; SCHELLENBAUM MAX DR**Inventor(s):** SCHELLENBAUM M CH ; DUENNENBERGER M CH ; MAX MUENZENBERGER MAX SCHELLENBACH AND FULVIO CASAGRANDE ; NATIONAL MACHINERY CO ; COMPANY THE NATIONAL MACHINERY ; CASAGRANDE F CH**International class (IPC 8-9):** A01N33/12 B21K1/64 C07C211/63 C07D307/68 C07D333/38 C11D1/62 C11D3/48 D06M13/46 (Advanced/Invention); B21K1/00 (Core/Invention)**International class (IPC 1-7):** A01N9/12 A01N9/14 A01N9/20 A61L13/00 C01C C07C141/02 C07C143/24 C07C145/00 C07C87/30 C07C91/00 C07C91/26 C07D5/26 C07D63/16 C11D3/00**CPC:** A01N33/12 C07D307/68 C07D333/38 B21K1/64**European class:** 124BG15C 124CA7F3 30I3H27B 45L8M 45L8M2 45L8M21 A01N33/12 B21K1/64 C07D307/68 C07D333/38**US class:** 510/518 546/322 549/484 549/71 554/109 558/27 562/468 562/469 562/472 562/473 562/474 562/475 562/492 562/493 562/506 562/602[Classification Explorer](#)**Forward Citations:** WO9745236, WO05058230, WO05058230, US6180672, US4654175, US4150452, US2005136015, US2004167195, EP0906177,**Abstract:**

1292906 Quaternary ammonium compounds CIBA-GEIGY AG 12 Feb 1970 [26 Feb 1969] 6898/70 Heading C2C The invention comprises quaternary ammonium compounds of formula wherein A denotes an organic residue bonded to X by a carbon atom, X denotes a -CO-, -SO₂- or -SO₃- group, R₁ denotes an aliphatic residue of 8-22 carbon atoms, R₂ denotes a monocyclic benzene residue, R₃ and R₄ which may be the same or different each denotes a divalent aliphatic residue of 1 to 6 carbon atoms and n is 1 or 2. These compounds may be obtained by treating a compound of formula wherein Q represents a cation and A, X and n are as defined above with a compound of formula wherein Z represents a halogen atom and R₁, R₂, R₃ and R₄ are as defined above. Many compounds are specified. The invention also comprises an anti-microbial composition containing a quaternary ammonium compound of the above formula in admixture with a solid or liquid diluent or carrier.

PatBase - US3708527_A



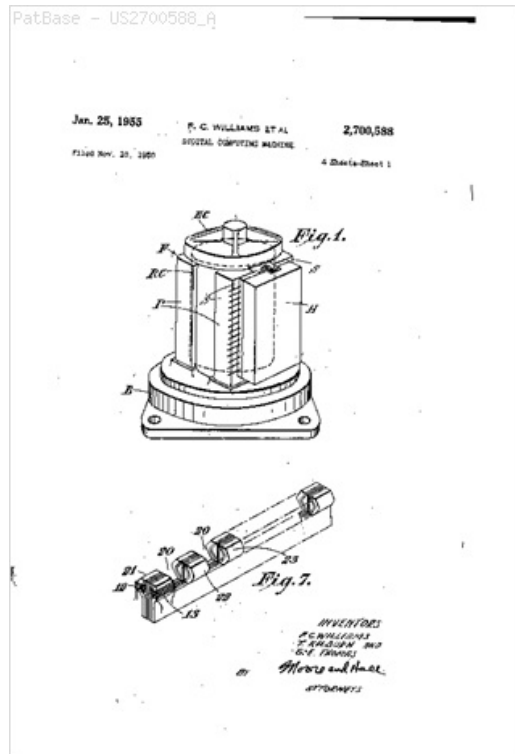
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Family:	Publication number	Publication date	Application number	Application date
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	SE402289 C	19781005	SE19730011829	19730830
	US2700588 A	19550125	US19500195042	19501110
	US4343942 A	19820810	US19690883577	19691209
	US4866175 A	19890912	US19790029344	19790412

Probable Assignee: RESEARCH CORP**Assignee(s):(std):** RES CORP ; RESEARCH CORP ; RESEARCH CORP US ; RESEARCH NEW YORK CORP ; NAT RES DEV**Assignee(s):** NATIONAL RESEARCH DEVELOPMENT CORP ; COSTAS H ISSIDORIDES ; HADDADIN MAKHLUF J ; ISSIDORIDES COSTAS H ; MAKHLUF J HADDADIN**Inventor(s):(std):** DEVELOPMENT NATION CORP ; ERIC THOMAS GORDON ; HADDADIN M J ; HADDADIN M J US ; HADDADIN MAKHLUF J ; HADDADIN MAKHLUF JERYIES ; HERCULES ISSIDORIDES COSTAS ; ISSIDORIDES C H ; ISSIDORIDES C H US ; ISSIDORIDES COSTAS H ; ISSIDORIDES COSTAS HERCULES ; JERYIES HADDADIN MAKHLUF ; KILBURN TOM ; M J HADDADIN ; THOMAS GORDON ERIC ; TOM KILBURN ; WILLIAMS FREDERIC CALLAND ; MAKHLUF JERYIES HADDADIN ; ISSIDORIDES C ; HADDADIN M ; COSTAS HERCULES ISSIDORIDES ; DEVELOPMENT CORPORATION NATION ; C H ISSIDORIDES ; CALLAND WILLIAMS FREDERIC**Inventor(s):** COSTAS H ISSIDORIDES ; COSTAS HERCULES ISSIDORIDES MAKHMUT JERYIES HADDADIN ; CORPORATION NATIONAL RESEARCH DEVELOPMENT ; MAKHLUF J HADDADIN ; NATIONAL RESEARCH DEVELOPMENT CORP**International class (IPC 8-9):** C07D235/02 C07D235/22 C07D235/24 C07D241/44 C07D241/52 G11B5/265
G11B5/29 (Advanced/Invention);
C07D235/00 C07D241/00 G11B5/265 G11B5/29 (Core/Invention);
C07D (Subclass/Invention)**International class (IPC 1-7):** A61K27/00 A61K31/495 C07B43/00 C07D235/02 C07D235/04 C07D235/06 C07D235/08 C07D235/10
C07D235/18 C07D235/22 C07D235/24 C07D241/40 C07D241/52 C07D29/12 C07D49/38 C07D51/62
C07D51/78 C07D51/80 C07D91/44 C07D99/04 C07D99/06 G11B5/27**CPC:** C07D235/02 C07D235/22 C07D235/24 C07D241/44 C07D241/52 G11B5/2651 G11B5/29**European class:** 124BD121X2202X2+69/66C 124BD122X122+69/66X 124HB35B41A5E 124HB35B41F 124HB3B
124HC2B7C C07D235/02 C07D235/22 C07D235/24 C07D241/44 C07D241/52 G11B5/265A G11B5/29**US class:** 360/125.01 360/126 544/345 544/353 544/354 544/355 544/356 548/301.1 548/304.4 548/309.4
548/309.7 G9B/005.069 G9B/5.001 G9B/5.069[Classification Explorer](#)**Cited documents:** US3660398 A, US3557109 A, US3474097 A, US3398141 A, US3360391 A, US2649506 A, US2540654 A, US2424633 A, US2026330 A, NL6504563 A, BE697976 A,**Forward Citations:** WO17113526, WO15058185, WO07043680, WO03042192, WO0105359, WO0105359, US7968713, US6953852, US4625250, US3997535, US3383667, US3247483, US3239914, US3201769, US3187410, US3104381, US3063052, US3058200, US3011031, US3008793, US3007146, US3001181, US2998292, US2987582, US2965886, US2922231, US2905521, US2848556, US2785038, US2767254, US2009048445, US2005049412, JP5190873, JP5190873, JP2007043680, JP2006241111, FR2482963, FR2132378, FR2081540, FR2081491, FR2081348, ES2105959, EP0287806, DE2907174, DE2527157, DE1225704, CN103420930, CN102060790,**Abstract:**

The synthesis of quinoxaline and benzimidazole-N-oxides and of ester and amide derivatives of 3-hydroxy-2-quinoxalinecarboxylic acid by a novel process consisting of the reaction between a benzofuroxan and an activated methylene-

containing compound under basic conditions.



Title: AMINO PYRIMIDINES

Priority: 19520527 US19530355729 19530518 DE1953N007220 19530523
 US19690794786 19690128 CA19700073270 19700127 CH19700001148 19700127
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 US19720301311 19721027 US19720301309 19721027 US19720302509 19721031
 CA19730175397 19730627 DK19760005035 19761108 DK19790002093 19790522

Family:	Publication number	Publication date	Application number	Application date
	AR192568 A1	19730228	AR19710234009	19710215
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	CH535241 A	19730331	CH19730001739	19700127
	CH535249 A	19730331	CH19700001148	19700127
	DE2003859 A1	19710408	DE19702003859	19700128
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	DE2056569 A1	19710812	DE19702056569	19700128
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	FR2034499 A1	19701211	FR19700002913	19700128
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	GB737136 A	19550921	GB19530014492	19530522
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	IL33783 A1	19720928	IL19700033783	19700127
	IL39672 A1	19721229	IL19700039672	19700127
	JP48013555 B4	19730427	JP19710085457	19711027
	NL169880 B	19820401	NL19700001122	19700127
	NL169880 C	19820901	NL19700001122	19700127
	NL7001122 A	19700730	NL19700001122	19700127
	PL82983 P	19751231	PL19700138382	19700126
	PL87801 P	19760731	PL19700166422	19700126
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	US3635978 A	19720118	US19690794786	19690128
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	US3816450 A	19740611	US19720301309	19721027
	US3884973 A	19750520	US19720302509	19721031

Probable Assignee: BEAZER MATERIALS AND SERVICES INC

Assignee(s):(std): UNIV STRATHCLYDE ; UNIV STRATHCYDE ; UNIV STRATHCLYDE GLASGOW ; PHILIPS CORP ; PHILIPS ELECTRICAL IND LTD ; UNIVERSITY OF STRATHCLYDE ; PHILIPS NV ; UNIVERSITY OF STRATHCLYDE GEORGE STREET GLASGOW C ; UNIVERSITY OF STRATHCYDE ; OF STRATHCLYDE TE GLASGOW GROOT BRITTAN UNIV

Assignee(s): OF STRATHCLYDE UNIV ; UNIVERSITY OF STRATHCLYDE TE GLASGOW GROOT BRITTAN ; UNIVERSITY STRATHCLYDE ; UNIVERSITY STRATHCLYDE GB ; UNIVERSITY OF STRATHCLYDE GEORGE STREET GLASGOW C 1 ECOSSE ; UNIVERSITY OF STRATHCLYDE GLASGOW SCHOTTLAND GROSSBRITANNIEN ; UNIVERSITY OF STRATHCLYDE GLASGOW SCHOTTLAND VER KOENIGREICH ; UNIVERSITY OF STRATHCLYDE TE GLASGOW GROOT BRITTANNIE ; WOOD HAMISH C S ; WOOD HAMISH CS ; REICHHOLD CHEMICALS INC A CORP OF DE ; STUART ALEXANDER ; PHILIPS GLOEILAMPENFABRIEKEN NV ; UNIVERSITY OF STRATHCLYDE THE ; REICHHOLD CHEMICALS INC ; UNIVERSITY OF STRATHCLYDE GB ; THE UNIVERSITY OF STRATHCLYDE ; PHILIPS ELECTRICAL INDUSTRIES LIMITED ; BEAZER MATERIALS AND SERVICES INC ; N V PHILIPS GLOEILAMPENFABRIEKEN ; NORTH AMERICAN PHILIPS CO INC ; NORTH AMERICAN PHILIPS COMPANY INC ; OF STRATHCLYDE GEORGE STREET GLASGOW C1 ECOSSE UNIV

Inventor(s):(std): A STUART ; ALEXANDER STUART ; CHRISTOPHER SWAN WOOD HAMISCH ; CHRISTOPHER SWAN

Inventor(s): WOOD HAMISH CHRISTOPHER SWAN BEARSDEN GLASGOW ; WOOD HAMISH CHRISTOPHER SWAN BEARSDEN GLASGOW SCHO ; WOOD HAMISH CHRISTOPHER SWAN BEARSDEN GLASGOW SCHOTTLAND ; WOOD H GB ; WILLEM DE VRIJER FREDERIK ; STUART ALEXANDER BROMLEY KENT ; SWAN WOOD HAMISH CHRISTOPHER ; HAMISH C S WOOD ; HAMISH CHRISTOPHER SWAN WOOD ; STUART A GB : H C S WOOD

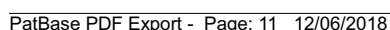
International class C07C205/15 C07C207/00 C07C207/04 C07C29/147 C07D209/48 C07D239/46 C07D239/48
(IPC 8-9): C07D239/50 C07D475/04 H04B1/68 H04N11/12 (Advanced/Invention);
C07C205/00 C07C207/00 C07C29/00 C07D209/00 C07D239/00 C07D475/00 H04B1/68
H04N11/06 (Core/Invention);
C07D (Subclass/Invention)

CPC: C07D209/48 C07D239/48 C07D475/04 H04B1/68 H04N11/12

US class: 260/256.4C 260/32.6A 260/554 260/58.4A 348/492 348/E11.01 544/258 544/320 548/477 548/479
564/36 564/487 564/502

Cited documents: US3007937 A, US2547501 A, FR2992 A.

Abstract:
1303175 2-Butanone derivative STRATHCLYDE UNIVERSITY OF 23 Jan 1970 [28 Jan 1969] 41733/72 Divided out of 1303171
Heading C2C 1 - Diazo - 3 - methyl - 3 - phthalimidobutan - 2 - one may be prepared by reacting diazomethane with a 2-
phthalimido-isobutyric acyl compound. The product is an intermediate in the synthesis of pteridine derivatives of the parent
Specification 1,303,171.



Title: 3-METHYLENECEPHALOSPORINS AND PROCESS FOR PRODUCTION THEREOF

Priority: 19511107 US19710118941 19710225 CA19720135453 19720224
DK19720000859 19720224 FI19720000500 19720225 CA19740214467 19741122

Family:	Publication number	Publication date	Application number	Application date
	AR193637 A1	19730511	AR19720240653	19720223
	AR193670 A1	19730511	AR19720244869	19721030
	AR201273 A1	19750228	AR19720244870	19721030
	AT318804 B	19741125	AT19720001564	19720225
	AT318809 B	19741125	AT19730002697	19720225
	AU197238889 A1	19730816	AU19720038889	19720210
	BE779305 A	19720811	BE19720779305	19720211
	BG20116 A3	19751030	BG19720019815	19720225
	BG22839 A3	19770420	BG19720023678	19720225
	CA1011731 A1	19770607	CA19720135453	19720224
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	CA1012133 A2	19770614	CA19740214467	19741122
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	DK112678 A	19780314	DK19780001126	19780314
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	DK152504 C	19880801	DK19780001126	19780314
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	ES427861 A1	19760801	ES19740427861	19740701
	ES427863 A1	19760901	ES19740427863	19740701
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	FI783277 A	19781027	FI19780003277	19781027
	FI783278 A	19781027	FI19780003278	19781027
	FR2127798 A5	19721013	FR19720006459	19720225
	GB1358963 A	19740703	GB19720008683	19720224
	GB733199 A	19550706	GB19520028127	19521107
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	IE36084 B	19760818	IE19720000182	19720214
	IE36084 L	19720825	IE19720000182	19720214
	IL38764 A0	19720427	IL19720038764	19720215
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	JP1064618 C3	19810922	JP19790131697	19791012
	JP55016154 B4	19800430	JP19720019611	19720225
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	OA3967 A	19790831	OA19720054498	19720221
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SE7500871 L	19750128	SE19750000871	19750128
SU442602 D	19740905	SU19721752088	19720224
SU442602 T	19740905	SU19721752088	19720224
SU628821 D	19781015	SU19731942401	19730702
US3932393 A	19760113	US19710118941	19710225
YU36524 B	19840229	YU19720000450	19720323
YU45072 A	19820225	YU19720000450	19720323
ZA7200796 A	19730926	ZA19720000796	19720207

Probable Assignee: LILLY CO ELI

Assignee(s):(std): CHAUVETTE R ; CHAUVETTE ROBERT R ; CHAUVETTE ROBERT R US ; ELI LILLI END KOMPANI SSHA ; ERICSSON TELEFON AB L M ; LILLY AND CO E ; LILLY AND COMPANY ELI ; ELI LILLY CO ; ELI LILLY AND CY 307 EAST MCCARTY STREET INDIANAPO ; LILLY AND CO ; ELI LILLY AND COMPANY TE INDIANAPOLIS INDIANA VER ; LILLY CO ELI ; INOSTRANNA FA

Assignee(s): INOSTRANNA FIRMA ; ELI LILLY AND CY 307 EAST MCCARTY STREET INDIANAPOLIS INDIANA EUA ; TELEFONAKTIEBOLAGET L M ERICSSON ; ELI LILLY AND COMPANY TE INDIANAPOLIS INDIANA VER ST V AM ; ELI LILLY AND CY ; LILLY ELI AND CO ; LILLY AND CO ELI ; ELI LILLY AND CY 307 EAST MCCARTY STREET INDIANAPOLIS INDIANA E U A ; ELI LILLY AND CO ; ELI LILLY AND CO INDIANAPOLIS IND US ; ELI LILLY AND CO TE INDIANAPOLIS INDIANA VER ST V AM ; ELI LILLY AND CO US ; ELI LILLY AND COMPANY

Inventor(s):(std): GAVLET ROBERT RAJMOND ; R R CHAUVETTE ; ROBAATO REIMONDO CHIYOOBETSUTO ; ROBERT RAJMOND GAVLET US ; ROBERT RAYMOND CHAUVETTE ; RR CHAUVETTE ; ROBERT CHAUVETTE RAYMOND ; RAYMOND CHAUVETTE ROBERT ; CHAUVETTE R ; CHAUVETTE R R ; CHAUVETTE RAYMOND ROBERT ; CHAUVETTE ROBERT R ; CHAUVETTE ROBERT RAYMOND

Inventor(s): CHAUVETTE ROBERT RAYMOND INDIANAPOLIS IND

Agent(s): S HOROWITZ AND CO

International class (IPC 8-9): A61K31/545 C07D499/00 C07D501/00 C07D501/02 C07D501/04 C07D501/14 C07D501/16 C07D501/18 C07D501/20 C07D501/22 C07D501/60 C07F7/18 H03K5/07 H03K7/08 H04N5/10 (Advanced/Invention); A61K31/545 C07D499/00 C07D501/00 C07F7/00 H03K5/04 H03K7/00 H04N5/08 (Core/Invention); C07D (Subclass/Invention)

International class (IPC 1-7): A61K31/545 C07D499/00 C07D501/00 C07D501/02 C07D501/04 C07D501/14 C07D501/16 C07D501/18 C07D501/20 C07D501/22 C07D501/60 C07D99/00 C07D99/24 C07F7/18 G03B41/16 H03K11/00 H03K7/08 H04N5/10

CPC: H03K5/07 H03K7/08 H04N5/10 Y02P20/55 C07D501/22

European class: 124HC5B61A1+B7K1+2+ C07D501/22 H03K5/07 H03K7/08 H04N5/10

US class: 260/243C 540/222 540/226 540/227 540/228 540/229 540/230

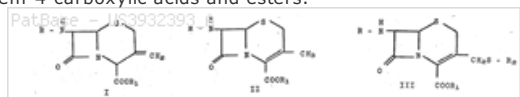
[Classification Explorer](#)

Cited documents: US3660396 A, US3660395 A, US3647788 A,

Forward Citations: US5847116, US5604222, US5578721, US4354022, US4269977, US4211702, US4176231, US4129731, US4060688, US4042472, US4031082, US4013650, US4008228, FR2213287, DE2400067,

Abstract:

3-Methylenecepham-4-carboxylic acids and esters of the Formula I and 3-methyl- DELTA 3-cephem-4-carboxylic acids and esters of the Formula II where R is hydrogen or an organic acyl group and R1 is hydrogen, C1-C4 alkyl a carboxylic acid protecting group or a pharmaceutically acceptable cation are prepared via the reductive displacement of a 3-substituted methyl cephalosporin of the Formula III where R2 is an organic residue such that -SR2 constitutes a reductively displaceable moiety, and R and R1 have the same meanings as defined in Formulae I and II, reductive displacement being accomplished by catalytic hydrogenation or chemical reduction. The 3-methylene cepham compounds are isomerized in dimethylacetamide in the presence of a tertiary alkyl amine to provide 3-methyl-7-acylamido- DELTA 3-cephem-4-carboxylic acids and esters.



Title:Staining and analysis of bacteria

Priority:19530109US19780945197 19780925US19790023737 19790326
US19790033900 19790427CA19790334321 19790823DE19792938511 19790924
US19800159785 19800616

Publication number	Publication date	Application number	Application date
AU165611 A1	00000000		00000000
BE881126 A	19800502	BE19800198948	19800111
BR7906097 A	19800527	BR19790006097	19790924
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DE2938511 A1	19800327	DE19792938511	19790924
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FR2436993 A1	19800418	FR19790023676	19790924
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GB2031457 A1	19800423	GB19790031544	19790911
GB2031457 B2	19821027	GB19790031544	19790911
GB737369 A	19550921	GB19530035662	19531222
IT1164706 A	19870415	IT19790050319	19790921
IT7950319 A0	19790921	IT19790050319	19790921
JP1093171 C3	19820416	JP19790122508	19790922
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JP56038196 B4	19810904	JP19790122508	19790922
NL184283 B	19890102	NL19800000194	19800111
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US4225669 A	19800930	US19790033900	19790427
US4336337 A	19820622	US19800159785	19800616

Probable Assignee: BAYLOR COLLEGE MEDICINE

Assignee(s):(std): BAYLOR COLLEGE MEDICINE ; MELNICK JOSEPH L ; WALLIS CRAIG ; WILHELM LEDWINA ; BAYLOR COLLEGE OF MEDICINE TE HOUSTON TEXAS VER ST

Assignee(s): BAYLOR COLLEGE OF MEDICINE TE HOUSTON TEXAS VER ST V AM ; BAYLOR COLLEGE OF MEDECINE ; BAYLOR COLLEGE OF MEDICINE ; BAYLOR COLLEGE OF MEDICINE HOUSTON TEX ; BAYLOR COLLEGE OF MEDICINE HOUSTON TEX US ; BAYLOR COLLEGE OF MEDICINE TE HOUSTON TEXAS VER

Inventor(s):(std): C WALLIS ; J L MELNICK ; JYIOSEFU ERU MERUNITSUKU ; MELNICK J ; MELNICK J L ; MELNICK JOSEPH L ; WALLIS C ; WALLIS CRAIG ; KUREIGU UORISU ; WALLIS G

Inventor(s): L MELNICK JOSEPH ; WALLIS CRAIG HOUSTON TEX ; WALLIS CRAIG HOUSTON TEX US ; JOSEPH L MELNICK ; CRAIG WALLIS

Agent(s): GOWLING LAFLEUR HENDERSON LLP

International class (IPC 8-9): A61M15/00 C12Q1/04 G01N1/30 G01N33/48 G01N33/50 (Advanced/Invention); A61M15/00 C12Q1/04 G01N33/48 G01N33/50 (Core/Invention)

International class (IPC 1-7): A61K31/19 C12K1/04 C12M1/12 C12Q1/00 C12Q1/02 C12Q1/04 C12Q1/06 C12Q1/18 C12R1/01 G01N1/30 G01N33/50 G01N33/52

CPC: C12Q1/04 A61M15/00 Y10S435/81

European class: A61M15/00 C12Q1/04

US class: 422/423 422/504 422/58 422/61 422/69 435/10 435/287.7 435/29 435/292 435/32 435/34 435/39 435/810 436/63 8/94.11

Classification Explorer

Cited documents:US4225669 A, US4167875 A, US4153675 A, US4004453 A, US3923463 A, US3909363 A, US3891507 A, US3846242 A, US3783105 A, US3681027 A, US3621016 A, US3568627 A, US3554871 A, US3532603 A, US3509872 A, US3496066 A, US3415718 A, US3245882 A, US3068154 A, US3043751 A, US2967132 A, US2167304 A, GB1329823 A, FR2355912 A1, FR2234368 A1, DE2401892 A1, DD101759 Z,

Forward Citations:WO9517519, WO9000201, WO09095826, WO09095826, WO05098019, WO05098019, WO02057482, WO02057482, WO0149872, WO0149872, USRE34405, USD714172, USD689782, USD689781, USD689780, US9677977, US9403985, US9366676, US9182382, US9115397, US9068976, US9040561, US9011897, US8968681, US8865904, US8481302, US8470529, US8454895, US8445284, US8247220, US8226971, US7943777, US7776529, US7749529, US7598390, US6603403, US6583722, US6448088, US6413778, US6228657, US5970782, US5827680, US5582103, US5545535, US5512488, US5494830, US5443579, US5437897, US5420017, US5403720, US5393661, US5360722, US5268146, US5244788, US5140986, US5081017, US4952497, US4891321, US4859584, US4812412, US4797256, US4717660, US4693972, US4673637, US4665024, US4639421, US4556636, US4525453, US4383032, US4376820, US4336337, US4331759, US4296202, US2012156799, US2010240750, US2010136608, US2010133200, US2010133175, US2010129852, US2010112682, US2010112630, US2009197296, US2006177477, US2004110247, US2004092890, US2003036109, RU2519339, JP7028758, JP64046277, JP63062797, JP62136361, JP6071156, JP59099775, JP59099773, JP58038188, JP4218392, JP2066056, JP2007531533, JP2007047383, JP1142298, EP0736104, EP0450850, EP0294529, EP0288621, EP0261934, EP0261934, EP0261934, EP0261933, EP0261933, EP0145242, EP0135324, EP0126019, EP0126019, EP0107594, EP0101398,

Abstract:

A bacterial staining composition and methods of analysis of both gram-negative and gram-positive bacteria are disclosed. The composition comprises a chelating agent and a basic dye, both of which are operative at a pH above about 7.0. Bacterial staining may be effected by contacting either concentrated or fluidly suspended bacteria with the composition at a neutral or basic pH. Bacteria stained with the composition and concentrated by filtration, centrifugation or the like are readily visible and their presence in a specimen may, thus, be rapidly detected. The gradations of color of the stained, concentrated bacteria correspond to the number of bacteria and semi-quantitative analysis of the bacteria may be effected by comparison with a standard. Differentiation of gram-negative and gram-positive bacteria may be accomplished by treating the stained bacteria with an organic acid wash having a pH of about 2.5 to 2.6. Such a wash completely decolorizes only stained gram-positive bacteria. Finally, a method for determining bacterial susceptibility to antimicrobial agents is provided which comprises incubating bacteria with an antimicrobial agent, staining the bacteria and thereafter comparing the color gradation of the stained, concentrated bacteria with a control or standard.

BACTERIURIA FIELD TRIALS CASE # 32

PATIENT: _____ DOCTOR: _____

URINE COLOR: _____ CLARITY: _____ DATE: _____

pH: _____ GLUCOSE: _____ PROTEIN: _____

BLOOD: _____ VOLUME PROCESSED: _____ ml

BACTERIOLOGY

CFU/ml: _____ ORGANISM: _____

REMARKS: _____

BACTERIURIA COLOR GUIDE (BACTERIA/ml)

70    70

POSITIVE SUSPICIOUS NEGATIVE

RESULT  **INSECT CARD**

Title: N-SUBSTITUTED AZIRIDINE-2-CARBOXYLIC ACID DERIVATIVES FOR IMMUNO STIMULATION

Priority: US19530360301 19530608 DE19782858177 19780803 DE19782833986 19780803
 DE19832039868U 19780803 CA19790332281 19790720 US19790059863 19790723
 AT19790005314 19790802 JP19790098780 19790803 AT19840001406 19840427

Family:	Publication number	Publication date	Application number	Application date
	AR228945 A1	19830513	AR19790277498	19790727
	AT140684 A	19871215	AT19840001406	19840427
	AT379382 B	19851227	AT19790005314	19790802
	AT386195 B	19880711	AT19840001406	19840427
	AT531479 A	19850515	AT19790005314	19790802
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	AU524572 B2	19820923	AU19790049308	19790727
	BE529361 A	00000000		00000000
	BE878020 A	19800201	BE19790196560	19790801
	CA1142530 A1	19830308	CA19790332281	19790720
	CH645540 A	19841015	CH19790007070	19790731
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	DD145267 A5	19801203	DD19790214711	19790731
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	DE2858177 C2	19870507	DE19782858177	19780803
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	FR1102666 A	19551025		19540428
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	GB2106896 A1	19830420	GB19820015159	19790802
	GB2106896 B2	19830817	GB19820015159	19790802
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	GR74424 B	19840628	GR19790159726	19790730
	HK13285 A	19850301	HK19850000132	19850219
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	IE791478 L	19800203	IE19790001478	19790808
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	JP1439318 C3	19880519	JP19790098780	19790803
	JP1631733 C3	19911226	JP19870083962	19870407
	JP2057523 B4	19901205	JP19870083962	19870407
	JP55022694 A2	19800218	JP19790098780	19790803
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	JP63258415 A2	19881025	JP19870083962	19870407
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	NZ191169 A	19810123	NZ19790191169	19790731
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	PL217527 A1	19800701	PL19790217527	19790802
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	SE445552 C	19861009	SE19790006461	19790730
	SE7906461 A	19800204	SE19790006461	19790730
	SE7906461 L	19800204	SE19790006461	19790730
	SG8490857 A	19850607	SG19840090857	19841129

SU1145927 D	19850315	SU19792791952	19790801
US2788496 A	19570409	US19530360301	19530608
US4321194 A	19820323	US19790059863	19790723
US4409236 A	19831011	US19810268964	19810601
US4410532 A	19831018	US19810334614	19811228
YU188179 A	19830630	YU19790001881	19790802
YU41169 B	19861231	YU19790001881	19790802
ZA7903966 A	19800827	ZA19790003966	19790802

Probable Assignee: C F BOEHRINGER AND SOEHNE GMBH

Assignee(s):(std): BELL TELEPHONE LABOR INC ; BERINGER MANNKHAJM GMBKH FA ; BOEHRINGER MANNHEIM GMBH ; RECKITT AND COLMANN PROD LTD ; BOEHRINGER MANNHEIM GMBH TE MANNHEIM BONDSREPUBLIC ; WESTERN ELECTRIC CO ; C F BOEHRINGER AND SOEHNE GMBH

Assignee(s): BOEHRINGER MANNHEIM GMBH TE MANNHEIM WALDHOF BONDS ; BOEHRINGER MANNHEIM GMBH DE ; BOEHRINGER MANNHEIM ; BOEHRINGER MANNHEIM GMBH TE MANNHEIM BONDSREPUBLIC DUTSLAND ; BOEHRINGER MANNHEIM GMBH TE MANNHEIM WALDHOF BONDSREPUBLIC DUTSLAND ; BOSIES ELMAR ; KAMPE WOLFGANG ; GRAFE ALFRED ; WESTERN ELECTRIC CO INC ; BOEHRINGER MANNHEIM GMBH 6800 MANNHEIM DE ; BERINGER MANNKHAJM GMBKH FIRMA ; BICKER UWE ; BELL TELEPHONE LABORATORIES INC ; BERGER HERBERT

Inventor(s):(std): GRAFE ALFRED DR PHIL ; GRAFE ALFRED DR ; GRAFE ALFRED DE ; GRAFE ALFRED ; GRAFE A ; FOX RODNEY THOMAS ; FOX RODNEY T ; FOX R T ; ELMAR BOZIES DE ; E BOSIES ; DR RER NAT WOLFGANG KAMPE ; DR RER NAT UWE BICKER ; DR RER NAT ELMAR BOSIES ; DR PHIL NAT ALFRED GRAFE ; DR PHIL HERBERT BERGER ; BOSTES E ; BOSIES ELMAR DR RER NAT ; BOSIES ELMAR DR ; BOSIES ELMAR DE ; BOSIES ELMAR ; BOSIES E ; BICKER UWE DR RER NAT ; BICKER UWE DE ; BICKER UWE ; BICKER U ; BERGER PHIL HERBERT DR ; BERGER HERBERT DR PHIL ; BERGER HERBERT DR ; BERGER HERBERT DE ; BERGER HERBERT ; BERGER H ; ALFRED GRAFE DE ; A GRAFE ; 5A GRAFE ; 4U BICKER ; 3W KAMPE ; 2H BERGER ; 1E BOSIES ; H BERGER ; KAMPE WOLFGANG DE ; KHERBERT BERGER DE ; LINVILL JOHN G ; LINVILL JOHN GRIMES ; U BICKER ; UVE BIKER DE ; VOLFGANG KAMPE DE ; W KAMPE ; RODNEY THOMAS FOX ; KAMPE WOLFGANG DR RER NAT ; KAMPE WOLFGANG ; KAMPE W ; GRAFE PHIL NAT ALFRED DR ; KAMPE WOLFGANG DR ; BICKER UWO DR ; WOLFGANG KAMPE ; UWE BICKER ; UORUFUGANGU KANPE ; UE BITSUKERU ; UBUE BITSUKERU ; KAMPE VOLFGANG ; HERUBERUTO BERUGAA ; HERBERT BERGER ; FOX R ; ERUMAARU BOJIIZU ; ELMAR BOSIES ; BUORUFUGANGU KANPE ; BOZIES ELMAR ; BIKER UVE ; BERGER KHERBERT ; ARUFURETSUDO GURAAFUE ; ALFRED GRAFE

Inventor(s): GRAFE ALFRED DR PHIL NAT ; KAMPE WOLFGANG DRRERNAT ; GRAFE ALFRED DRPHILNAT ; BOSIES ELMAR DRRERNAT ; BICKER UWE DRRERNAT ; BERGER HERBERT DRPHIL ; 5 A GRAFE ; 4 U BICKER ; 3 W KAMPE ; 2 H BERGER ; 1 E BOSIES

Agent(s): DAVIES AND COLLISON; SWABEY OGILVY RENAULT; AE MULFORD

International class (IPC 8-9): A61K31/395 A61K31/396 A61K31/40 A61K31/44 A61K31/4427 A61K31/443 A61K31/4433 A61P37/04 C07D203/06 C07D203/08 C07D401/02 C07D401/04 C07D403/00 C07D403/06 C07D405/02 C07D405/04 C07D409/04 C07D409/06 C07D417/06 H03H11/10 H04B3/16 (Advanced/Invention); A61K31/395 A61K31/396 A61K31/40 A61K31/44 A61K31/4427 (Advanced/Non-invention); A61K31/395 A61K31/396 A61K31/40 A61K31/44 A61K31/4427 A61P37/00 C07D203/00 C07D401/00 C07D403/00 C07D405/00 C07D409/00 H03H11/04 H04B3/04 (Core/Invention)

International class (IPC 1-7): A61K31/33 A61K31/345 A61K31/395 A61K31/41 A61K31/425 A61K31/43 A61K31/44 A61K31/445 A61K31/505 A61K31/53 A61K31/535 A61K31/545 A61K45/05 C07D203/04 C07D203/06 C07D203/08 C07D203/10 C07D203/12 C07D203/14 C07D213/36 C07D269/00 C07D333/30 C07D401/02 C07D401/04 C07D401/06 C07D403/00 C07D403/02 C07D403/04 C07D403/06 C07D405/02 C07D405/04 C07D405/06 C07D409/02 C07D409/04 C07D409/06 C07D413/02 C07D417/02 C07D417/06

CPC: H03H11/10 H04B3/16 Y10S514/885 C07D203/06

European class: C07D203/06 H03H11/10 H04B3/16 M07D203/06

US class: 260/239E 330/164 330/175 330/176 330/3 330/302 424/251 424/263 424/275 514/183 514/256 514/340 514/444 514/885 544/111 544/242 544/255 544/326 544/329 544/330 544/332 546/115 546/208 546/268.1 546/275 548/524 548/964 548/966 548/967 549/59

[Classification Explorer](#)

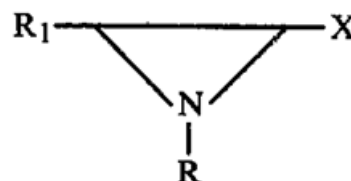
Cited documents: US2549065 A, US2243440 A, US2197348 A, US2185389 A, US2093665 A, FR2368953 A1, DK550377 A, DK438177 A, DE2656240 A1, DE2538672 A1, DE2528460 A1, DE1470223 A1, DD128615 C,

Forward Citations: WO0241871, WO0241871, WO0212186, USRE45128, US7842687, US7169774, US6982263, US6831180, US4925835, US4826858, US4533951, US4151493, US4147997, US3906350, US3731218, US3594650, US3408590, US3289116, US3286206, US3255421, US3243743, US3243740, US3243739, US3202925, US3187266, US3178650, US3068329, US2936426, US2933703, US2006234999, US2005090484, US2003129222, US2003119827, JP62087512, EP0186049,

Abstract:

Aziridine-2-carboxylic acid derivatives of the formula wherein X is a carboxyl, nitrile, alkoxy carbonyl or carbamoyl group, and R and R₁ are various organic radicals, or pharmacologically acceptable salts thereof, exhibit marked immunostimulant activity, especially in conjunction with added chemotherapeutic agents such as a penicillin, a cephalosporin, a nitrofurantoin or chloramphenicol. Those compounds are new where X is a cyano group or an alkoxy carbonyl radical and R₁ is a hydrogen atom, but R' is not an unsubstituted alkyl radical or an alkyl radical substituted by hydroxyl, alkoxy, dialkylamino, phenyl, 4-chlorophenyl or 4-methoxyphenyl or a vinyl radical substituted by a phenyl or methyl radical, or a cycloalkyl radical, a phenyl or 4-chlorophenyl, a 4-methoxyphenyl, an s-triazinyl or a pyridinyl radical; or where X is a carbamoyl group and R₁ is a hydrogen atom, R' is not an unsubstituted cyclohexyl, alkyl or benzyl radical; or where X is a cyano group or an alkoxy carbonyl radical and R₁ is a phenyl radical, R' is not an isopropyl, cyclohexyl, phenyl, benzyl or p-chlorobenzyl radical; or where R₁ is a methyl radical, R₁ is not a benzyl, p-chloro- or p-methoxybenzyl radical.

PatBase - US4321194_A



Title:	HEXAMETHYLENETETRAMINE ADDUCTS OF HALOACETO-MERCAPTOPHENONES			
Priority:	US19550555245 19551227			
Family:	Publication number	Publication date	Application number	Application date
	US2759927 A	19560821	US19550555245	19551227
Probable Assignee:	STERLING DRUG INC			
Assignee(s):(std):	STERLING DRUG INC			
Inventor(s):(std):	SUTER CHESTER M			
International class (IPC 8-9):	C07C233/00 C07D487/18 (Advanced/Invention); C07C233/00 C07D487/00 (Core/Invention)			
International class (IPC 1-7):	C07D487/18			
CPC:	C07C323/00 C07D487/18			
European class:	124BG12B2F5C2F 124BG9C1C 124BG9D2 C07C323/00 C07D487/18			
US class:	544/185 564/192 564/196 564/202 564/207 564/212 564/219 564/360 568/42 568/43			
Classification Explorer				
Forward Citations:	US7126005, US4918095, US4235892, US4188402, US3406205,			

Abstract:

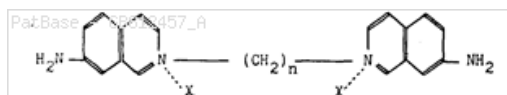
(Claim 1) 1. An alpha-halo - 4 - hydrocarbylmereaptoacetophenonehexamethylenetetramine adduct of the formula R-S C-CE[2-Hal-(CH₂)₆N₄ where R is a hydrocarbyl radical having 1-7 carbon afoms and Hal is a member of the class consisting of chlorine and bromine.

Title:	Improvements in or relating to quaternary ammonium salts			
Family:	Publication number	Publication date	Application number	Application date
	GB812457 A	19590422	GB19560031318	19561015
Probable Assignee:	ALLEN AND HANBURYS LTD			
Assignee(s):(std):	ALLEN AND HANBURYS LTD			
Assignee(s):	ALLEN AND HANBURYS LIMITED			
Inventor(s):(std):	AUSTIN WILLIAM CHARLES ; COLLIER HENRY OSWALD JACKSON ; POTTER MICHAEL DAVID ; TAYLOR EDWIN PERCIVAL			
International class (IPC 8-9):	C07D217/10 (Advanced/Invention)			
International class (IPC 1-7):	C07D217/10			
CPC:	C07D217/10			
European class:	C07D217/10			

[Classification Explorer](#)

Abstract:

The invention comprises quaternary ammonium salts of the formul <FORM:0812457/IV (b)/1> where n is an integer from 3 to 20 inclusive and X is an anion, and the manufacture thereof wherein one molecular proportion of a polymethylene di-halide containing 3 to 20 carbon atoms and more than two molecular proportions of a 7-acylamido- or a 7-aroylamido-isoquinoline are heated together in an organic solvent for a period of from 24 to 48 hours, the product of the reaction is hydrolysed by treatment with a concentrated mineral acid, the mixture is diluted with water, made alkaline and the appropriate sodium, potassium or ammonium salt is added to produce a quaternary ammonium salt having the desired anion. In addition the salt so obtained may be converted into another salt by double decomposition. Examples are given wherein trimethylene-1.3-, tetramethylene-1.4-, pentamethylene-1.5-, hexamethylene - 1.6 -, octamethylene - 1.8 -, nonamethylene - 1.9 -, decamethylene - 1.10 -, dodecamethylene - 1.12 -, hexadecamethylene-1.16 -, and nonadecamethylene - 1.19 - bis-(7 - amino - isoquinolinium iodides) are prepared by reacting 4-acetamido-isoquinoline with the appropriate polymethylene di-iodide in methyl ethyl ketone, hydrolysing the product with concentrated hydrochloric acid, potassium iodide being added in the final step to produce the desired anion. Tetramethylene-1.4-bis-(7-amino-isoquinolinium iodide) is also produced starting from 7-benzamido-isoquinoline, and tetramethylene - 1.4 - bis - (7 - amino - isoquinolinium chloride, nitrate and perchlorate) are prepared from the corresponding iodide or chloride (in the case of the last two named anions) by treatment with hydrogen chloride, sodium nitrate and sodium perchlorate respectively.



Title: ALPHA-6-DEOXYTETRACYCLINE DERIVATIVES AND PROCESS

Priority: US19600031236 19600523 US19600038414 19600629 US19600072857 19601201
 US19600072875 19601201 US19600076441 19601219 US19610087059 19610206
 US19610076441 19610206 US19610106146 19610505 FI19610001002 19610523
 FR19610862592 19610523 NL19610265048 19610523

Family:	Publication number	Publication date	Application number	Application date
	BE603760 A	19611113	BE19610603760	19610512
	CH434238 A	19670430	CH19610005983	19610523
	CH444853 A	19671015	CH19660007628	19610523
	CH459189 A	19680715	CH19660007629	19610523
	CY365 A	19670202	CY19670000365	19670202
	CY366 A	19670202	CY19670000366	19670202
	CY381 A	19670308	CY19670000381	19670308
	CY480 A	19690410	CY19690000480	19690410
	DE1283834 B	19681128	DE1961P031281	19610519
	DE1298522 B	19690703	DE1961P027203	19610523
	DE1300934 B	19690814	DE1961P027184	19610519
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	DK102796 C	19651011	DK19610004945	19610523
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	FI40534 B	19681130	FI19610001002	19610523
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	GB998294 A	19650714	GB19630036490	19610504
	MY6700047 A	19671231	MY19670000047	19671231
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	MY7400226 A	19741231	MY19740000226	19741230
	NL139302 B	19730716	NL19670013971	19671013
	NL6713970 A	19671227	NL19670013970	19671013
	NL6713971 A	19671227	NL19670013971	19671013
	OA136 A	19660315	OA19640050149	19640616
	SE302119 B	19680708	SE19610005116	19610516
	US2984686 A	19610516	US19600076441	19601219
	US3200149 A	19650810	US19610106146	19610505

Probable Assignee: PFIZER AND CO C**Assignee(s):(std):** CHAS PFIZER AND CO INC ; CHAS PFIZER AND CORP INC ; PFIZER ; PFIZER AND CO C**Assignee(s):** PFIZER CORP ; PFIZER INC ; PFIZER INC NEW YORK N Y V ST A ; PFIZER INC NEW YORK ; PFIZER INC 10017 NEW YORK N Y US ; CHAS PFIZER AND INC CORP ; CHASPFIZER AND CO INC ; CHAS PFIZER AND CO**Inventor(s):(std):** STEPHENS JUN CHARLES ROBERT ; RENNARD HANS HEINRICH ; BEEREBOOM JOHN JOSEPH ; STEPHENS JR CHARLES R ; STEPHENS C R JR ; STEPHENS C ; ROBERT STEPHENS JUN CHARLES ; BLACKWOOD ROBERT KEITH ; ROBERT KEITH BLACKWOOD ; RENNARD HANS H ; RENNARD H H ; RENNARD H ; JOSEPH BEEREBOOM JOHN ; JOHN JOSEPH BEERSBOOM ; JOHN JOSEPH BEEREBOOM ; KEITH BLACKWOOD ROBERT ; HEINRICH RENNARD HANS ; HANS HEINRICH RENNARD ; CHARLES ROBERT STEPHENS ; CHARLES ROBERT JR STEPHENS ; CALES FERRY ; BLACKWOOD ROBERT K ; BLACKWOOD R K ; BLACKWOOD R ; BEEREBOOM JOHN J ; BEEREBOOM J J ; BEEREBOOM J ; GALES FERRY**Inventor(s):** FERRY GALES ; FERRY CALES ; C R STEPHENS JR ; H H RENNARD ; JR CHARLES R STEPHENS ; JOSEPH BEERSBOOM JOHN ; J J BEEREBOOM ; R K BLACKWOOD ; ROBERT JR STEPHENS CHARLES ; BEEREBOOM JOHN JOSEPH OLD LYME ; ROBERT STEPHENS JUN ; ROBERT STEPHENS CHARLES ; CONN ; BLACKWOOD ROBERT KEITH GALES FERRY ; RENNARD HANS HEINRICH LYME ; STEPHENS JUN ; RK BLACKWOOD ; RENNARD HANS HEINRICH LYME CONN ; JJ BEEREBOOM ; HH RENNARD ; CR STEPHENS JR ; BLACKWOOD ROBERT KEITH GALES FERRY CONN ; BEEREBOOM JOHN JOSEPH OLD LYME CONN

International class (IPC 8-9): A61K31/16 A61K31/65 A63H11/10 B29D23/00 B65D30/24 B65D33/00 C07C233/00 F16L11/04 (Advanced/Invention);
 A61K31/16 A61K31/65 A63H11/00 B29D23/00 B65D30/24 B65D33/00 C07C233/00 F16L11/04 (Core/Invention);
 C07C (Subclass/Invention)

International class (IPC 1-7): A61K21/00 A61K31/16 A61K31/65 A63H11/10 B29D23/00 B65D30/24 B65D33/00 C07C103/00 C07C103/19 C07C135/00

CPC: A61K31/16 A61K31/65 B29D23/00 B65D33/00 C07C233/00 F16L11/04

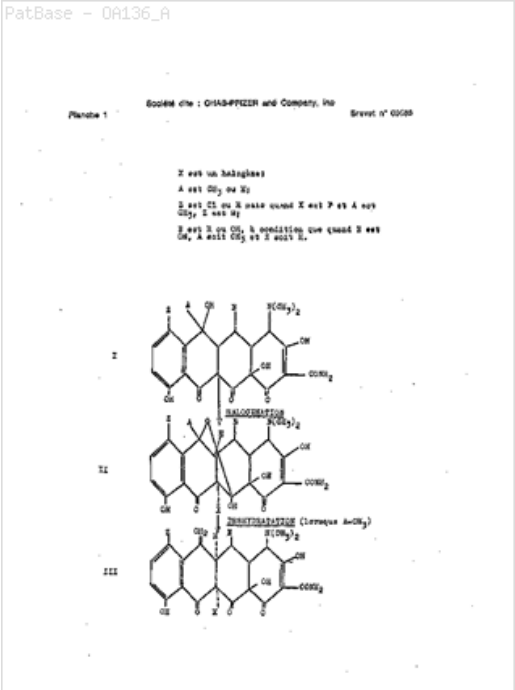
European class: 124JC3B7B5 124JC3B7D 124JC3B7D3 124JC3B7D4 124JC3B7D4B 124PB2 A61K31/16 A61K31/65 A63H11/10 B29D23/00 B65D30/24 B65D33/00 C07C233/00 F16L11/04

US class: 504/336 552/203 552/204 552/205 552/207 562/114 562/493 562/584 562/590 562/594 562/607[Classification Explorer](#)

Cited documents: ZA51358 A, US3036129 A, US3019260 A, US3005023 A, US2976318 A, US2878289 A, US2731497 A, PE5618, GB845649 A, DE932670 A, DE1132918 A, DE1131608 A, DE1117567 A, DE1082905 B, DE1076676 B, DE1076675 B, DE1073482 B, DE1011417 B, DE1007775 B, BE572584 A, BE572236 A, BE566456 A, BE565025 A,

Forward Citations: WO17089809, USRE40183, USRE40086, US9533943, US9314475, US8383610, US8168810, US8106225, US8101590, US7851460, US7820641, US7812008, US7696187, US7521437, US7365087, US7176225, US5686634, US5639742, US5567692, US5538954, US5530117, US5529990, US5495030, US5494903, US5466684, US5430162, US5420272, US5401863, US5401729, US5386041, US5380888, US5371076, US5328902, US5284963, US5281628, US5049683, US4997959, US4987242, US4973719, US4659515, US4597904, US4089900, US4001321, US3954862, US3907890, US3674859, US3446841, US3444198, US3341586, US3183267, US3165551, US3159542, US3155587, US3155586, US3140232, US3109007, US2010249076, US20101113399, US2010056638, US2009258842, US2008233206, US2008177080, US2008064667, US2007155708, US2007049564, US2007049563, US2007049562, US2007049560, US2006287283, US2006166946, US2006089336, US2005250744, US2005187198, US2005143352, JP57149284, JP53005299, JP52048982, JP50041848, FR2550788, FR2070666, FR2068473, FR2053034, EP2157085, EP1529179, EP1503981, EP1503981, EP1496742, EP0535346, EP0391005, EP0137661, DE3009063, DE2427420, DE2418499, DE2308227, DE1668583, CN102086165, CN101967108, AU2003218243,

Abstract: 995,031. Feed supplements. PFIZER CORPORATION. May 4, 1961 [May 23, 1960; June 29, 1960; Dec. 1, 1960 (2); Dec. 19, 1960; Feb. 6, 1961], No. 16158/61. Heading A2B. [Also in Division C2] Tetracycline compounds of formula: wherein X 4 is H, C1, Br or I, X 5 is H or NH 2, Z is C1, Br or H and X 6 and X 7 are H, C1, Br, I or NH 2 provided that only one of X 6 and X 7 is amino and when X 6 is H, X 7 is H and when X 6 is NH 2, X 7 is H, are used in animal feedstuffs as growth stimulants. Specifications 952,656 and 995,033 are referred to.



Title: EVERNINOMICIN ANTIBIOTICS AND METHOD FOR THE MANUFACTURE THEREOF

Priority: US19610152262 19611114 US19620184484 19620402 US19620198414 19620523
 US19620211153 19620716 US19620211154 19620716 US19620211806 19620723
 NO19620146184 19621023 NL19620285188 19621107 CA19620862112 19621110
 FI19660003429 19621112 FI19660003430 19621112 DE1962SC32328 19621113
 FR19620915208 19621113 DE1962SC35872 19621113 US19630297999 19630724
 US19640354168 19640323 NO19660161521 19660202 NO19660161522 19660202
 US19680762504 19680925 US19680769122 19681021

Family:

Publication number	Publication date	Application number	Application date
AT246917 B	19660510	AT19620008868	19621112
AT246923 B	19660510	AT19640003861	19621112
AT246924 B	19660510	AT19640003862	19621112
AT267748 B	19690110	AT19650002543	19650319
AU4663064 A1	19660113	AU19640046630	19640707
BE650943 A	19641116		19640724
BE661459 A	19650922		19650322
BR6244515 A0	19730719	BR19620144515	19621109
BR6568037 A0	19730807	BR19650168037	19650323
CA922250 A1	19730306		00000000
CA922250 A2	19730306	CA19660950460	19660121
CA933153 A1	19730904		00000000
CA933153 A2	19730904	CA19710120789	19710817
CH428098 A	19670115	CH19620013097	19621107
CH435560 A	19670515	CH19660016042	19621107
CH435561 A	19670515	CH19660016043	19621107
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CY357 A	19661230	CY19660000357	19661230
DE1188760 B	19650311	DE1962SC32328	19621113
DE1227194 B	19661020	DE1962SC35872	19621113
DE1271896 B	19680704	DE19651271896	19650322
DK113352 B	19690317	DK19640003500	19640713
DK114753 B	19690804	DK19640003501	19640713
DK116862 B	19700223	DK19650001460	19650322
DK120770 B	19710712	DK19620004876	19621113
ES310844 A2	19651216	ES19650310844	19650322
FI43059 B	19701001	FI19620002022	19621112
FI43420 B	19701231	FI19650000375	19650217
FI43421 B	19701231	FI19660003429	19661223
FI43422 B	19701231	FI19660003430	19661223
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FR128 F	00000000		00000000
FR1522202 A	19680426	FR19620915208	19621113
GB1021401 A	19660302	GB19620039130	19621016
GB1021402 A	19660302	GB19640008410	19621016
GB1021403 A	19660302	GB19640008412	19621016
GB1074235 A	19670705	GB19640028829	19640713
GB1083662 A	19670920	GB19650001387	19650112
IL22998 A1	19690129	IL19650022998	19650216
JP51030157 B4	19760830	JP19670001712	19670109
JP51030158 B4	19760830	JP19670001713	19670109
LU42688 A	19630113		19621113
MY6600138 A	19661231	MY19660000138	19661230
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NL153938 B	19770715	NL19720001759	19720210
NL285188 A	00000000		00000000
NL6408506 A	19650125	NL19640008506	19640724
NL6503263 A	19650924	NL19650003263	19650315
NL7201759 A	19720525	NL19720001759	19720210
NL7201760 A	19720525	NL19720001760	19720210
NO118368 B	19691222	NO19620146184	19621023
NO120576 B	19701109	NO19660161521	19660202
NO120631 B	19701116	NO19660161522	19660202
NO120933 B	19701228	NO19650157230	19650316
OA868 A	19680322	OA19640050956	19641222
SE318844 B	19691222	SE19620012214	19621114
SE320946 B	19700223	SE19660013442	19621114
SE321198 B	19700302	SE19620014441	19621114
SE321198 B	19700302	SE19660013441	19661005
SE322191 B	19700406	SE19650003667	19650322
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US3499078 A	19700303	US19680762504	19680925
US3511909 A	19700512	US19680769122	19681021

Probable Assignee: SCHERING CORP**Assignee(s):(std):** SCHERICO LTD ; SCHERING CORP ; SCHERICO LTD LUZERN ZWITSERLAND ; SCHERLING LTD ; GEORGE M LUEDEMANN ; MARVIN J WEINSTEIN**Assignee(s):** SCHERICK LTD ; SCHERICO LTD LUCERNE**Inventor(s):(std):** GEORGE M LUEDEMAN ; GEORGE M LUEDEMANN ; LUEDEMANN G ; LUEDEMANN GEORGE M ;

LUEDERMANN G ; WEINSTEIN M ; WEINSTEIN MARVIN J ; WEINSTEIN MARVON J ; WEISTEIN M ; MARVIN J WEINSTEIN

Inventor(s):

MARVIN JOSEPH WEINSTEIN ; M LUEDEMAN GEORGE ; M LUEDEMANN GEORGE ; GEORGE M WURDEMAN AND MARVIN J WEINSTEIN ; GEORGE MILLER LUEDEMANN ; J WEINSTEIN MARVIN

International class (IPC 8-9):

A61K36/06 C07G11/00 C07H15/22 C07H15/236 C12P1/06 C12P17/18 C12P19/48 C12R1/29 (Advanced/Invention);
A61K36/06 C07H15/00 C12P1/06 C12P17/18 C12P19/00 (Core/Invention)

International class (IPC 1-7):

A61K21/00 A61K31/35 A61K35/66 A61K35/70 A61K35/74 A61K39/00 C07G11/00 C07H15/22 C12D9/00 C12D9/14 C12P1/06 C12P17/18 C12P19/48 C21D9/00

CPC:

Y10S435/863 Y10S435/865 C12N1/16 C12P19/48 C12P17/189 A61K31/70 C07H15/22 C07H15/236 C12P1/06 C12P19/485 C12R1/29 Y02A50/402

European class:

124TP3B4B1 6H4D2Z A61K31/70 C07H15/22 C07H15/236 C12N1/16 C12P1/06 C12P17/18E2 C12P19/48 C12P19/48B C12R1/29

US class:

424/115 424/118 424/121 424/122 424/124 435/128 435/170 435/80 435/863 435/865 514/40 536/13.6 536/16.8

[Classification Explorer](#)

Cited documents:

BE624816 A,

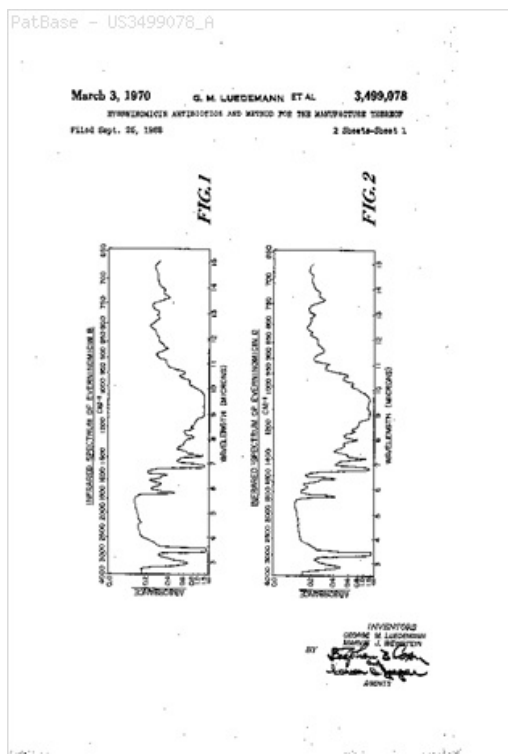
Forward Citations:

US9925205, US9895385, US9827317, US9775854, US9757442, US9737555, US9724301, US9622502, US9566234, US9549939, US9549925, US9511082, US9446111, US9402845, US9131686, US8951978, US8697055, US8187590, US8097247, US7358232, US7345024, US7257562, US7030093, US6942877, US6913764, US6743637, US5814488, US5624914, US4975541, US4848782, US4692333, US4617293, US4493826, US4423035, US4412068, US4389398, US4331659, US4256876, US4252971, US4049796, US4006225, US3993748, US3991183, US3915956, US3915955, US3901973, US3510555, US3470149, US2011020306, US2011020305, US2010016170, US2009232941, US2007141157, US2005031664, US2004067253, US2004048786, US2003138810, US2003113715, US2003049324, US2002192279, US2002182251, JP58059995, JP54092268, JP53071652, FR2462442, FR2426088, FR2423539, FR2104762, EP2689037, EP2689037, EP1800668, EP1470829, EP1287819, EP1287818, EP1178311, EP1178311, EP0065123, BG65505, BG65499,

Abstract:

ABSTRACT OF THE DISCLOSURE

Micromonospora carbonacea var. carbonacea and a variant thereof, Micromonospora carbonacea var. aurantiaca, when subjected to submerged aerobic fermentation under controlled conditions produce a mixture of at least six antibiotics; said antibiotics being designated everninomicin A, everninomicin B, everninomicin C, everninomicin D, everninomicin E and everninomicin F, respectively. This application is a continuation-in-part of prior copending applications Ser. No. 567,811, filed June 13, 1966 (now abandoned); Ser. No. 297,999, filed July 24, 1963 (now abandoned); Ser. No. 211,154, filed July 16, 1962 (now abandoned); and Ser. No. 184,484, filed Apr. 2, 1962 (now abandoned).



Title: ANTIMICROBIAL THIO PYRIDAZINE COMPOSITIONS FOR AGRICULTURAL USE

Priority: 19590530 US19600031512 19600525

Family:

Publication number	Publication date	Application number	Application date
US3089809 A	19630514	US19600031512	19600525

Probable Assignee: TAKEDA PHARMACEUTICAL

Assignee(s):(std): TAKEDA PHARMACEUTICAL

Assignee(s): TAKEDA PHARMACEUTICAL IND LTD ; TAKEDA PHARMACEUTICAL INDUSTRIES LTD

Inventor(s):(std): HIROICHI YAMAMOTO ; IKUO SUMINA ; JIRO KINUGAWA ; MICHIIHIKO OCHIAI

Inventor(s): OCHIAI MICHIIHIKO ; SUMINA IKUO ; YAMAMOTO HIROICHI ; KINUGAWA JIRO

CPC: C07D401/12

European class: 124HB33B20B 45L8J32

US class: 514/247 544/239 544/241

[Classification Explorer](#)

Cited documents: US2905672 A, US2863802 A, US2861917 A, US2858311 A, US2835626 A, US2764584 A,

Forward Citations: US4492700, US3966928, US3678168, US3625943, US3399199,

Abstract:

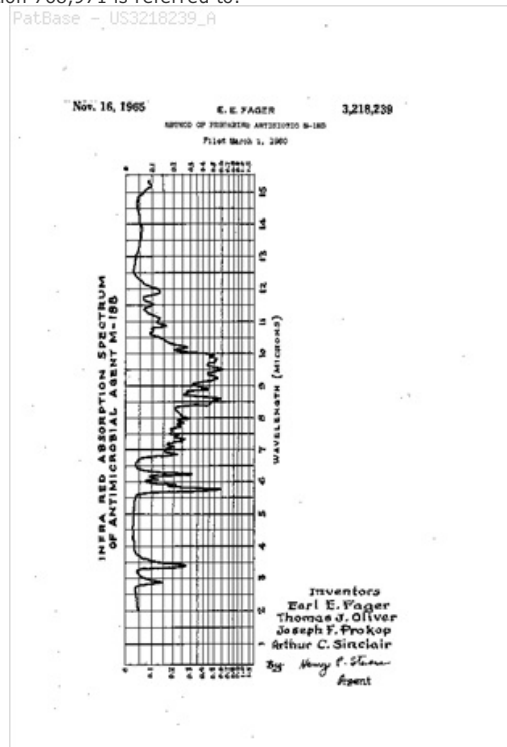
(Claim 1) 1. An anti-microbial composition for agricultural use and, more especially, adapted to protect a plant from diseases caused by fungi and by bacteria, which consists essentially of anti-microbial agent in the form of a compound of the formula wherein X is a halogen and R is a member selected from the group consisting of hydrogen, cyano and -COOR', wherein R' is a member selected from the group consisting of alkyl, benzyl and phenyl, and an agricultural carrier therefor, said **antimicrobial** agent constituting from 0.2 to 50% of the composition.

Title: METHOD OF PREPARING ANTIBIOTIC M-188**Priority:** US19600012062 19600301

Family:	Publication number	Publication date	Application number	Application date
	DE1185334 B	19650114	DE1961A036852	19610301
	GB936049 A	19630904	GB19610007550	19610301
	US3218239 A	19651116	US19600012062	19600301

Probable Assignee: ABBOTT LABORATORIES**Assignee(s):(std):** ABBOTT LAB**Assignee(s):** ABBOTT LABORATORIES**Inventor(s):(std):** SINCLAIR ARTHUR CHARLES ; SINCLAIR ARTHUR C ; PROKOP JOSEPH FRANK ; PROKOP JOSEPH F ; OLIVER THOMAS JOSEPHUS ; OLIVER THOMAS J ; FAGER EARL ELMER ; FAGER EARL E**International class**
(IPC 8-9): C07G11/00 (Advanced/Invention);
C07G11/00 (Core/Invention)**International class**
(IPC 1-7): C07G11/00 C12D9/00**CPC:** Y10S435/886 C07G11/00**European class:** 6H4D2Z C07G11/00**US class:** 424/121 435/128 435/886[Classification Explorer](#)**Abstract:**

Antimicrobial agent M-188 is produced by cultivating an **antimicrobial** agent M-188-producing strain of Streptomyces caelestis under aerobic conditions in an aqueous culture medium containing assimilable sources of carbohydrate, nitrogen and inorganic salts. Preferably cultivation is carried out at 20 DEG -32 DEG C. for 2 to 6 days under submerged aerobic conditions. The culture medium may also contain a source of growth substances, an insoluble buffering agent and a non-toxic defoaming agent. The **antimicrobial** agent M-188 is separated by (a) **filtering** the whole culture broth and extracting the solid phase with acetone or an alcohol in which the **antimicrobial** agent is soluble or (b) acidifying the whole broth and **filtering**. The filtrate of (a) and (b) is preferably adjusted to pH 8-10 and then extracted with a water-immiscible polar organic solvent, e.g. chloroform or ethyl or amyl acetate. The organic solvent extract may then be evaporated to dryness or extracted into dilute aqueous acid. The acid extract is then made alkaline, e.g. with sodium hydroxide to precipitate the **antimicrobial** agent M-188 as free base. The base is purified by chromatography or by passing a chloroform solution thereof over magnesium silicate and eluting with chloroform containing ethanol. **Antimicrobial** agent M-188 is a base forming salts with acids, e.g. hydrochloric acid, oxalic acid, salicylic acid, benzoic acid, sulphuric acid, or citric acid in water or organic solvent solution. **Antimicrobial** agent M-188 is soluble in methanol, ethanol, chloroform, ethylacetate, benzene and water to the extent of 2,5 mg/ml at 25 DEG C., but insoluble in saturated hydrocarbons. It has a U.V. maximum at 232mm E1 percent 1cm = 29; an I.R. spectrum as 279mm E1 percent 1cm = 280 and a minimum at shown in the drawing; $[\alpha]_{25D} = -40$ DEG (1 percent in chloroform); an empirical formula $C_{38}H_{61}NO_{14}$; elemental analysis C = 60,37 percent, H = 8,21 percent, N = 1,91 percent and O = 29,51 percent; Mwt. = 756 and a Pka of 6,7 when filtrated in 50 percent aqueous ethanol. **Antimicrobial** agent is used in treating turkey sinusitis and coccidiosis and is administered in their feed such as chicken feed or by injection. Specification 768,971 is referred to.



Title: METHOD OF PRODUCING ANTIMICROBIAL AGENT M-141 AND ITS SALTS

Priority: US19600030488 19600520 FR19610861885 19610516

Family:	Publication number	Publication date	Application number	Application date
	CH406527 A	19660131	CH19610005919	19610520
	DE1198488 B	19650812	DE1961A037496	19610519
	FR1538952 A	19680913	FR19610861885	19610516
	GB951693 A	19640311	GB19610017038	19610510
	SE310632 B	19690512	SE19610005312	19610519
	US3859170 A	19750107	US19600030488	19600520

Probable Assignee: ABBOTT LABORATORIES

Assignee(s):(std): ABBOTT LAB

Assignee(s): ABBOTT LABORATORIES

Inventor(s):(std): GOLDSTEIN ALMA WITHMAN ; GOLDSTEIN ALMA W ; GOLDSTEIN A ; ALMA WHITMANN GOLDSTEIN

Inventor(s): WHITMANN GOLDSTEIN ALMA

International class (IPC 8-9): C07G11/00 C12P17/18 (Advanced/Invention);
C07G11/00 C12P17/18 (Core/Invention)

International class (IPC 1-7): A61K21/00 C12D9/14 C12P17/06

CPC: Y10S435/886 A61K36/06 C12P17/181

European class: 6H4D 6H4D2Z A61K35/70 A61K36/06 C12P17/18B

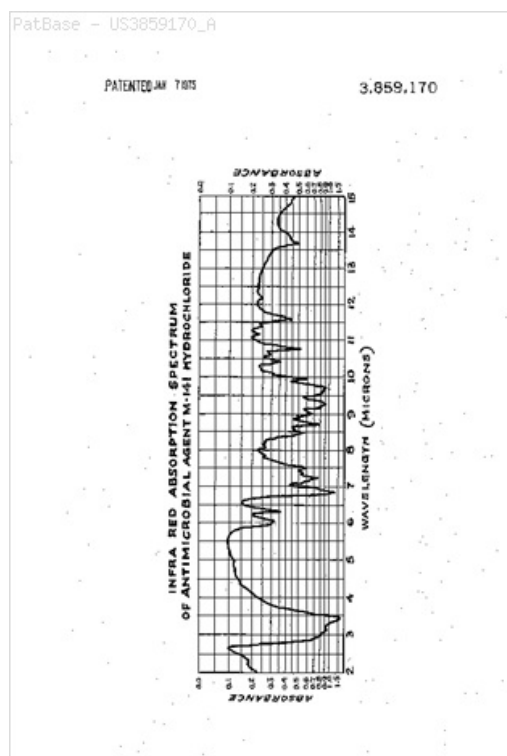
US class: 195/80 424/116 435/128 435/886

[Classification Explorer](#)

Cited documents: GB811757 A,

Abstract:

A method of producing **antimicrobial** agent M-141 by cultivating the organism *Streptomyces flavopersicus* NRRL 2820 under submerged aerobic conditions. The **antimicrobial** agent is active against a variety of bacteria and protozoan organisms, as for example, *Eimeria tenella*. 4 Claims, 1 Drawing Figure



Title:	ANTHRACYCLIDINE-ACETIC ACID DERIVATIVES																																																																																							
Priority:	US19610132304 19610818 US19620209269 19620711 FR19620906980 19620814 US19660569052 19660801 US19710104747 19710107 US19720232972 19720308	US19610133011 19610818 FR19620906978 19620814 DE19621470170 19620817 US19670647238 19670619 US19720232609 19720307	US19620209268 19620711 FR19620906979 19620814 DE19621668533 19620817 US19690873077 19691031 US19720232631 19720307																																																																																					
Family:	<table><tr><th>Publication number</th><th>Publication date</th><th>Application number</th><th>Application date</th></tr><tr><td>DE1468466 A1</td><td>19690313</td><td>DE19621468466</td><td>19620817</td></tr><tr><td>DE1470150 A1</td><td>19690717</td><td>DE19621470150</td><td>19620817</td></tr><tr><td>DE1470170 A1</td><td>19690918</td><td>DE19621470170</td><td>19620817</td></tr><tr><td>DE1470171 A1</td><td>19690417</td><td>DE19621470171</td><td>19620817</td></tr><tr><td>DE1668533 B1</td><td>19721109</td><td>DE19621668533</td><td>19620817</td></tr><tr><td>DE1668533 C2</td><td>19730607</td><td>DE1967P042605</td><td>19620817</td></tr><tr><td>FR1357627 A</td><td>19640410</td><td>FR19620906978</td><td>19620814</td></tr><tr><td>FR1357628 A</td><td>19640410</td><td>FR19620906979</td><td>19620814</td></tr><tr><td>FR1365279 A</td><td>19640703</td><td>FR19620906980</td><td>19620814</td></tr><tr><td>GB1013576 A</td><td>19651215</td><td>GB19620029878</td><td>19620803</td></tr><tr><td>GB1013906 A</td><td>19651222</td><td>GB19620029879</td><td>19620803</td></tr><tr><td>GB1019562 A</td><td>19660209</td><td>GB19640006430</td><td>19620803</td></tr><tr><td>GB1019563 A</td><td>19660209</td><td>GB19640006431</td><td>19620803</td></tr><tr><td>GB973022 A</td><td>19641021</td><td>GB19620029880</td><td>19620803</td></tr><tr><td>US3509184 A</td><td>19700428</td><td>US19660569052</td><td>19660801</td></tr><tr><td>US3697552 A</td><td>19721010</td><td>US19690873077</td><td>19691031</td></tr><tr><td>US3772363 A</td><td>19731113</td><td>US19720232631</td><td>19720307</td></tr><tr><td>US3829453 A</td><td>19740813</td><td>US19720232972</td><td>19720308</td></tr><tr><td>US3849493 A</td><td>19741119</td><td>US19720232609</td><td>19720307</td></tr><tr><td>US3862225 A</td><td>19750121</td><td>US19710104747</td><td>19710107</td></tr></table>				Publication number	Publication date	Application number	Application date	DE1468466 A1	19690313	DE19621468466	19620817	DE1470150 A1	19690717	DE19621470150	19620817	DE1470170 A1	19690918	DE19621470170	19620817	DE1470171 A1	19690417	DE19621470171	19620817	DE1668533 B1	19721109	DE19621668533	19620817	DE1668533 C2	19730607	DE1967P042605	19620817	FR1357627 A	19640410	FR19620906978	19620814	FR1357628 A	19640410	FR19620906979	19620814	FR1365279 A	19640703	FR19620906980	19620814	GB1013576 A	19651215	GB19620029878	19620803	GB1013906 A	19651222	GB19620029879	19620803	GB1019562 A	19660209	GB19640006430	19620803	GB1019563 A	19660209	GB19640006431	19620803	GB973022 A	19641021	GB19620029880	19620803	US3509184 A	19700428	US19660569052	19660801	US3697552 A	19721010	US19690873077	19691031	US3772363 A	19731113	US19720232631	19720307	US3829453 A	19740813	US19720232972	19720308	US3849493 A	19741119	US19720232609	19720307	US3862225 A	19750121	US19710104747	19710107
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Probable Assignee:	PFIZER																																																																																							
Assignee(s):(std):	PFIZER ; PFIZER AND CO C																																																																																							
Assignee(s):	PFIZER INC ; PFIZER INC US ; CHAS PFIZER AND CO ; CHAS PFIZER AND CO INC ; CHAS PFIZER AND COINC																																																																																							
Inventor(s):(std):	BURNS WOODWARD ROBERT ; HILLYARD CONOVER LLOYD ; WOODWARD ROBERT B ; CONOVER LLOYD H ; WOODWARD ROBERT BURNS ; WOODWARD R ; HILLARD CONOVER LLOYD ; CONOVER LLOYD HILLYARD ; CONOVER L ; BUTLER KENNETH																																																																																							
Inventor(s):	CONOVER L GB ; ROBERT B WOODWARD ; WOODWARD R US ; CONN ; BUTLER KENNETH WATERFORD ; CONOVER LLOYD HILLYARD QUAKER HILL ; LLOYD H CONOVER ; WOODWARD ROBERT BURNS BELMONT MASS																																																																																							
International class (IPC 8-9):	C07C233/00 C07C37/055 C07C43/205 C07C45/46 C07C49/84 C07C51/34 C07C57/34 C07C57/42 C07C59/52 C07C59/56 C07C59/64 C07C59/90 C07D207/327 C07D209/58 C07D261/08 C07D307/00 C07D307/58 C07D307/77 C09K15/06 C09K15/20 C10L1/22 C11B5/00 G01N31/00 (Advanced/Invention); C07D207/32 (Advanced/Non-invention); C07D207/00 C07D261/00 C09K15/00 C10L1/10 C11B5/00 G01N31/00 (Core/Invention)																																																																																							
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Cited documents:	US3409616 A, US3338963 A, US3188348 A, US3153067 A, US3102914 A, US3029284 A, GB820542 A,																																																																																							

[Classification Explorer](#)

Cited documents:	US3409616 A, US3338963 A, US3188348 A, US3153067 A, US3102914 A, US3029284 A, GB820542 A,
Forward Citations:	WO8809786, WO03005971, WO02072506, WO02072506, WO0187823, WO0028983, USRE40183, USRE40086, US9884830, US9688644, US9533943, US9365493, US9073829, US8907104, US8598148, US8580969, US8486921, US8304445, US8293920, US8252777, US8168810, US7960559, US7897784, US7875649, US7851460, US7820641, US7807842, US7763735, US7696358, US7696188, US7662831, US7601856, US7521437, US7456158, US7361674, US7214669, US7094806, US7001918, US6946453, US6897204, US6894036, US6638922, US5639742, US5567692, US5530117, US5529990, US5498699, US5495030, US5442059, US5430162, US5420272, US5401729, US5386041, US5380888, US5371076, US5183758, US5015745, US4985462, US4855414, US4012448, US3882124, US2011160165, US2011118215, US2011082305, US2011009639, US2011009371, US2010249076, US2010130451, US2010081826, US2009258842, US2009137845, US2009093640, US2008167273, US2008027090, US2008027049, US2007149488, US2007142338, US2007049563, US2007049562, US2007049561, US2007049560, US2006287283, US2006194773, US2006089336, US2006084634, US2005282787, US2005267079, US2005245491, US2005148551, US2005143352, US2004192658, US2004067912, US2004002481, US2003181371, JP63233946, JP4016414, JP2003238493, FR2492374, EP2537934, EP2431469, EP2332550, EP2332549, EP2332548, EP2332547, EP2332546, EP2329828, EP2329826, EP2327409, EP2301915, EP2301550, EP2218785, EP1894569, EP1743632, EP1439843, EP1439843,

Abstract:

ABSTRACT OF THE DISCLOSURE The total synthesis of tetracycline-type antibiotics by -CONH₂ OH in a multi-step process beginning with 3,4,10-trioxo-1,2,3,4, 4a,9,9a,10-octahydroanthracenes comprising: (1) an aldol condensation with a glyoxalic acid ester to give a 2-carboxymethylidene - 3,4,10 - trioxo-1,2,3,4,4a,9,9a,10-octahydroanthracene ester; (2) Michael reaction of said ester with an amine to produce a 3,4,10-trioxo-1,2,3,4,4a,9,9a, 10-octahydroanthracene-2-(a-amino) acetic acid ester; (3) conversion of the triketone to the corresponding 4,10-diketone by (a) selective reduction of the Michael reaction product to the corresponding 3-hydroxy compound, followed by conversion of the 3-hydroxy compound to the corresponding 3-formyloxy compound and removal of the 3-formyloxy group by treatment with zinc dust to give a 4,10-dioxo-1,2,3,4,4a,9,9a,10-octahydroanthracene 2-(a-amino) acetic acid ester; or (b) conversion of the hydrochloride salt of the Michael reaction product to a lactone by reaction with p-toluene-sulfonic acid and treatment of the lactone with zinc dust formic acid; (4) conversion of the 4,10-diketo-1,2,3,4,4a,9,9a,10-octahydroanthracene 2-(a-amino) acetic acid to a mixed anhydride; (5) followed by acylation of a malonic acid ester with the mixed anhydride; (6) cyclization of the acyl malonate derivative to a 12a-deoxytetracycline which is then hydroxylated to a tetracycline. The preparation of the 3,4,10-trioxo-1,2,3,4,4a,9,9a,10- octahydroanthracenes from benzoyl halides by (a) Friedel-Crafts reaction of a benzoyl halide with a pyrocatechol ether, e.g., a di-(low-er)alkyl ether, to produce a 3,4-di(lower)alkoxybenzo-phenone; (b) conversion of the benzophenone by partial or complete reduction of the carbonyl group by chemical or catalytic methods to a 3,4-di(lower)alkoxy diphenyl methanol or 3,4-di-(lower)alkoxy diphenyl methane; or to a 3,4-di-(lower)alkoxy diphenyl alkane via a Grignard reaction and reduction of the thus-produced alkanol; (c) oxidation of the 3,4-di-(lower)alkoxy diphenyl alkane, or 50 the corresponding dihydroxy compound, to a dienedioic acid ester or dienedioic acid; (d) hydrogenation of the dienedioic acid compound to a benzyl adipic acid derivative; (e) cyclization of said compound to a 2-(2-carbalkoxy-ethyl)-4-tetralone by means of dehydrating or dehydro-halogenating agents; (f) cyclization of the 4-tetralone derivatives by condensation with a dialkyl oxalate to give a 2-carbalkoxy 3,4,10-trioxo-octahydroanthracene; and (g) removal of the 2-substituent by decarboxylation. The intermediates and final products are useful as bactericides and/or chelating agents. Among the biologically active members of this group are those containing the following substituent groups: Substituents Common Name 4-N(CH₃)₂, 6-OH, 6-CH₃, 12a-OH, Tetracycline. 4-N(CH₃)₂, 5-OH, 6-OH, 6-CH₃, 5-oxytetracycline. 12a-OH. 4-N(CH₃)₂, 6-OH, 6-CH₃, 7-Cl, 7-chlorotetracycline. 12a-OH. 4-N(CH₃)₂, 5-OH, 6-CH₃, 12a-OH, 6-deoxy-5-oxytetracycline. 5-OH, 6-CH₃, 12a-OH, 6-OH, 4-desdimethylamino-5-oxytetracycline. 4-N(CH₃)₂, 6-CH₃, 12a-OH, 6-deoxytetracycline. 4-N(CH₃)₂, 12a-OH, 6-deoxy-6-demethyltetracycline. 4-N(CH₃)₂, 6-OH, 8-CH₃, 7-Br, 12a- 7-bromotetracycline. OH. 4-N(CH₃)₂, 6-OH, 7-Cl, 12a-OH, 6-deoxy-6-demethyl-7-chlorotetracycline. 6-OH, 6-Cl, 12a-OH, 4-desdimethylaminotetracycline. 6-OH, 6-CH₃, 7-Cl, 12a-OH, 4-desdimethylamino-7-chlorotetracycline. 4-N(CH₃)₂, 6-OH, 12a-OH, 6-deoxytetracycline. 12a-OH, 6-deoxy-6-demethyl-4-desdimethylaminotetracycline. The present new processes utilize 3,4,10-trioxo-1,2,3,4, 4a,9,9a,10-octahydroanthracenes, Formula I, as starting materials to produce both known and new tetracyclines having the formulae X NR₁E₁ X_r OH X₂ OH -X₄ Oe zH (XVI) H NKsR_i Xi- ^OH Xa ^YXY O OH O (XVII) ^-Xi This application is a continuation-in-part of our earlier filed pending application Ser. No. 209,269, filed July 11, 1962, which, in turn, is a continuation-in-part of application Ser. No. 132,304, filed Aug. 18, 1961, and now abandoned.



Title: PROCESS OF CONTROLLING MICROBIAL ACTIVITY

Priority: US19620197545 19620524 US19630324597 19631104 US19630324598 19631104
US19630353012 19631104 US19650462456 19650608

Family:

Publication number	Publication date	Application number	Application date
US3147261 A	19640901	US19630324597	19631104
US3223708 A	19651214	US19630324598	19631104
US3250794 A	19660510	US19620197545	19620524
US3285812 A	19661115	US19650462456	19650608

Probable Assignee: DUPUY HAROLD P

Assignee(s):(std): DUPUY HAROLD P ; FISHER MARY J ; FORE SARA P ; MAGNE FRANK C ; MOD ROBERT R ; SKAU EVALD L ; NOVAK ARTHUR F ; ORTEGO JESSE R

Inventor(s):(std): DUPUY HAROLD P ; FISHER MARY J ; FORE SARA P ; MAGNE FRANK C ; MOD ROBERT R ; NOVAK ARTHUR F ; ORTEGO JESSE R ; SKAU EVALD L

International class (IPC 8-9): C07D215/08 C07D265/30 C07D295/185 (Advanced/Invention); C07D215/00 C07D265/00 C07D295/00 (Core/Invention)

International class (IPC 1-7): A01N37/18 C07D215/08 C07D265/30 C07D295/16 E21B47/00

CPC: C07D295/185 C07D215/08 C07D265/30

European class: 124BG12B2F5B1 124BG12B3D2B 124BG12B3D2B2H 124BG12B3D2B6 124CF6HJ3C5 30I3H 30I3H30C C07D215/08 C07D265/30 C07D295/185

US class: 514/217.11 514/237.5 514/255.01 514/311 540/607 544/163 544/171 544/176 544/386 544/387 546/165 546/168 546/245 554/35 554/63 554/66

[Classification Explorer](#)

Cited documents: US3079388 A, US3079387 A, US3071611 A, US3055882 A, US3052680 A, US3005747 A, US2971855 A, US2952681 A, US2738350 A, US2541584 A, US2183853 A,

Forward Citations: US9179675, US8957000, US6103768, US5643925, US5614521, US4891073, US4867911, US4639450, US4599090, US4477362, US4456603, US4346043, US4198509, US4156779, US3995059, US3865828, US3728459, US3621043, US3539578, US3511840, US3373163, US3332954, JP5695397, JP2012111714, EP2710892, EP0582065, EP0164998, DE2823596, DE1493049,

Abstract:

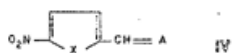
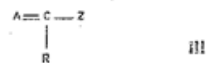
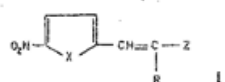
(Claim 1) 1. A process of controlling microbial activity compris_ contacting the microbe with an **antimicrobial** compoliti'on containing as its essential active ingredient a member selected from the group consisting of 4-(6-hydroxycaproyl)morpholine, 4 decanoyl - 2,6 - dimethylmorpholine, 4 - oleoyl - 2,6 dimethylmorpholine, 4 - petroselinoylmorpholine, and the morpholides of parsely seed oil fatty acids,

Title: SYNTHESIZED NITROFURYL DERIVATIVES**Priority:** DE1963B071208 19630320 FR19640968087 19640320 19650315

Family:	Publication number	Publication date	Application number	Application date
	AT242130 B	19650825	AT19640002421	19640319
	BE645362 A	19640918		19640318
	CH420148 A	19660915	CH19640003408	19640317
	CY465 A	19681122	CY19680000465	19681122
	CY468 A	19681204	CY19680000468	19681204
	DE1445494 A1	19681205	DE19631445494	19630320
	DE1445494 B2	19730308	DE19631445494	19630320
	DE1445494 C3	19731004	DE19631445494	19630320
	DK122458 B	19720306	DK19640001346	19640317
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	MY6900117 A	19691231	MY19690000117	19691231
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	NL123291 C	00000000		00000000
	NL6402960 A	19640921	NL19640002960	19640319
	US3532691 A	19701006		19661206
	US3592901 A	19710713		19690702

Probable Assignee: BOEHRINGER AND SOEHNE GMBH**Assignee(s):(std):** BOEHRINGER AND SOEHNE GMBH ; BOEHRINGER MANNHEIM GMBH**Assignee(s):** BOEHRINGER MANNHEIM GMBH 6800 MANNHEIM ; CF BOEHRINGER AND SOEHNE GMBH ; BOEHRINGER MANNHEIM G M B H ; C F BOEHRINGER AND SOEHNE G M B H ; C F BOEHRINGER AND SOEHNE GMBH**Inventor(s):(std):** BERGER HERBERT ; BERGER HERBERT DR ; BERGER HERBERT DR PHIL ; ERICH HAACK DR PHIL ; HAACK ERICH ; HAACK ERICH DR PHIL ; HAACK ERICH PROF DR ; HERBERT BERGER DR PHIL ; VOEMEL WOLFGANG DR MED ; VOMEL WOLFGANG ; WOLFGANG VOEMEL DR MED ; WOLFGANG VOEMEL**Inventor(s):** WOLFGANG VOEMEL DRMED ; WOLFGANG VOMEL ; MED VOEMEL WOLFGANG DR ; PHIL BERGER HERBERT DR ; PHIL HAACK ERICH DR ; HAACK ERICH PROF DR PHIL ; HERBERT BERGER ; BOEHRINGER MANNHEIM GMBH ; ERICH HAACK**International class (IPC 8-9):** C07D405/06 (Advanced/Invention); C07D405/00 (Core/Invention)**International class (IPC 1-7):** A61K27/00 A61K31/345 A61K31/38 C07D29/00 C07D405/06 C07D99/04**CPC:** C07D405/06**European class:** 124HC1B6A+A2B1 124PA2F4B3 30I3H30 45L8M20 C07D405/06**US class:** 260/240 424/263 514/336 546/284.7[Classification Explorer](#)**Cited documents:** US3352683 A,**Forward Citations:** WO0130757, US7056917, US3994882, JP2002322054,**Abstract:**

The invention comprises nitrofur derivatives of the formula wherein R is a hydrogen atom or an alkyl group and Z is a pyridyl group linked with the vinyl group in the a - or g -position, which carries one or more polar or hydrophilic substituents in the pyridyl nucleus, and quaternary ammonium and acid-addition salts thereof. The compounds may be prepared by (a) condensing 5-nitro-furfural or its diacetate with compounds of the formula R.CH₂.Z, or (b) condensing 5-methyl-2-nitro-furan with compounds of the formula R.CO.Z, or (c) reacting 5-nitrofurfural with appropriate pyridine-substituted alkyl magnesium halides, or Grignard compounds of 5-nitro-2-halomethyl-furans with appropriately substituted pyridine aldehydes or ketones, followed in either case by dehydration, or (d) nitrating the corresponding 5-unsubstituted furan derivatives. The substituent or substituents in the pyridine ring may be introduced or liberated after the condensation reaction has taken place. The substituents may be halogen atoms, nitro, alkoxy, alkylmercapto, alkyl-sulphonyl, polyhydroxy-alkoxy, haloacyl and diazoacyl radicals, carboxylic acid groups, which may be esterified (especially polyhydroxy esters), carboxamido and carboxy-hydrazido radicals, which may be acylated or hydroxy-alkylated on the nitrogen atom, and amino groups which may be acylated, alkylated or hydroxy-alkylated.



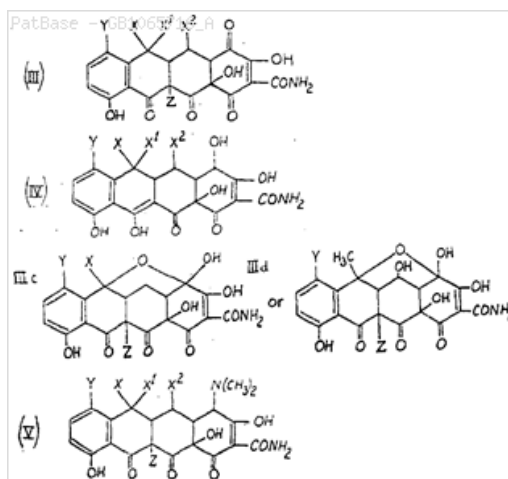
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K. F. J. Janssen & Co. N.V.

Title:	4-OXO-4-DDEDIMETHYLMAMINOTETRACYCLINE-4,6-HEMIKETALS				
Priority:	US19620247874 19621228 FR19640981288 19640709 US19730325628 19730122		US19640360345 19640416 US19670667357 19670913		US19640360435 19640416 US19710114038 19710209
Family:	Publication number	Publication date	Application number	Application date	
	BE650353 A	19650111		19640709	
	CH462149 A	19680915	CH19640008939	19640708	
	CH462155 A	19680915	CH19670003887	19640708	
	FR1431682 A	19660318	FR19640981288	19640709	
	FR4359 M	00000000		00000000	
	GB1065715 A	19670419	GB19640026637	19640624	
	GB1065716 A	19670419	GB19660007330	19640626	
	US3622627 A	19711123	US19670667357	19670913	
	US3824285 A	19740716	US19710114038	19710209	
	US4066694 A	19780103	US19730325628	19730122	
	US4089900 A	19780516	US19760720145	19760903	
Probable Assignee:	PFIZER				
Assignee(s):(std):	PFIZER ; PFIZER AND CO C				
Assignee(s):	PFIZER INC ; PFIZER INC US ; CHAS PFIZER AND CO ; CHAS PFIZER AND CO INC				
Inventor(s):(std):	STEPHENS CHARLES R JR ; STEPHENS JR CHARLES R ; STEPHENS C ; BLACKWOOD ROBERT K ; BLACKWOOD R ; STEPHENS CHARLES ROBERT ; ROBERT KEITH BLACKWOOD ; CHARLES ROBERT JR STEPHENS ; BLACKWOOD ROBERT KEITH				
Inventor(s):	BLACKWOOD R US ; ROBERT JR STEPHENS CHARLES ; KEITH BLACKWOOD ROBERT ; CHARLES R STEPHENS JR ; ROBERT K BLACKWOOD ; STEPHENS C US				
International class (IPC 8-9):	A61K31/65 C07C233/00 (Advanced/Invention); A61K31/65 C07C233/00 (Core/Invention)				
International class (IPC 1-7):	C07C103/19				
CPC:	C07C233/00 A61K31/65				
European class:	124JC3B+D4B 124JC3B7 124JC3B7D 124JC3B7D4B A61K31/65 C07C233/00				
US class:	260/55.9AT 260/559AT 544/380 549/300 549/354 549/382 552/202 552/203 552/204 552/206 552/309				
Classification Explorer					
Cited documents:	US3609188 A, US3462487 A, US3364260 A, US3200149 A, US3183267 A, US3159675 A, US3030377 A, US2744931 A,				
Forward Citations:	WO13040433, WO12044761, WO10095940, WO08036682, WO06116718, WO06047671, WO06047671, WO03005971, US9884830, US9688644, US9365493, US9073829, US8907104, US8598148, US8580969, US8486921, US8440646, US8293920, US7960559, US7858601, US7807842, US7763735, US7456158, US7214669, US6946453, US6897204, US6894036, US6638922, US5498699, US5237378, US4960913, US2011077225, US2011009639, US2011009371, US2010130451, US2009137845, US2009093640, US2007149488, US2007142338, US2006194773, US2006166944, US2005282787, US2005267079, US2005245491, US2004192658, US2004067912, US2004002481, US2003092684, US2003049120, JP2008518025, JP2002529501, EP3309253, EP2537934, EP2431469, EP2392258, EP2332550, EP2332549, EP2332548, EP2332547, EP2332546, EP2329828, EP2329826, EP2327409, EP2301916, EP2301915, EP2301912, EP2301550, EP2218785, EP2147679, EP1894569, EP1743632, EP1439843, EP1439843, EP1137410, EP1137410, DE1568519,				

Abstract:

ABSTRACT OF THE DISCLOSURE 4-Dedimethylaminotetracyclines and the corresponding 5a,6-anhydro derivatives having an oxo, hydroxy, substituted imino, amino or substituted amino group other than dimethylamino at the C.4-position useful as **antimicrobial** agents. The 4-oxo-4-dedimethylaminotetracyclines are prepared by oxidation of tetracyclines with a hydrocarbon dicarboxylic acid haloimide and then converted by reduction to the corresponding 4-hydroxy compounds or by reaction with a primary amine to 4-substituted imino derivatives. The latter compounds are reduced to 4-amino derivatives which are reductively methylated or alkylated to 4-substituted-4-dedimethylaminotetracyclines. Dehydration of the tetracycline compounds affords the corresponding 5a,6-anhydro compounds. CROSS-REFERENCE TO RELATED APPLICATIONS This application is a division of copending application Ser. No. 667,357, filed Sept. 13, 1967, and now U.S. Pat. 3,622,627, which in turn is a continuation-in-part of application Ser. No. 360,435, filed Apr. 16, 1964, and now abandoned, which in turn is a continuation-in-part of application Ser. No. 247,874, filed Dec. 28, 1962, now abandoned.



Title:3-(SUBSTITUTED PHENYL) PYRROLE DERIVATIVES AND METHODS OF PRODUCING THEM

Priority:JP19640016338 19640325 JP19640033177 19640612 JP19640058242 19641012
JP19640060200 19641022 JP19640017732 19641207 JP19640068740 19641207
JP19640073138 19641224 JP19650005814 19650202 JP19650016850 19650322
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JP19650020733 19650408 DE19651795768 19650928 FR19650033177 19650929
FR19650033349 19650930 FR19650033348 19650930 FR19650033351 19650930
FR19650044338 19651230 US19670624139 19670320 JP19670068419 19671024

Family:	Publication number	Publication date	Application number	Application date
	AT266818 B	19681210	AT19650008900	19650930
	AT273089 B	19690725	AT19650008842	19650929
	AT276623 B	19691125	AT19650002733	19650325
	BE670216 A	19660117	BE19650670216	19650928
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	BE670428 A	19660131		19651001
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	BR6573574 A0	19730802	BR19650173574	19650929
	CH460783 A	19680815	CH19650013494	19650930
	CH462168 A	19680915	CH19650013495	19650930
	CH465769 A	19681130	CH19650004077	19650324
	CH469705 A	19690315	CH19650013496	19650930
	CH476721 A	19690815	CH19650013554	19651001
	DE1291744 B	19690403	DE1965F045609	19650324
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	DE1545861 A1	19691211	DE19651545861	19650929
	DE1545862 A1	19691211	DE19651545862	19650929
	DE1545864 A1	19691023	DE19651545864	19651001
	DE1795768 A1	19750116	DE19651795768	19650928
	DK114471 B	19690707	DK19650001538	19650324
	FI43716 B	19710301	FI19650000727	19650325
	FR1457752 A	19660124	FR19650033349	19650930
	FR1458649 A	19660304	FR19650033351	19650930
	FR1472991 A	19670317	FR19650033177	19650929
	FR1472992 A	19670317	FR19650033348	19650930
	FR4995 M	19670417	FR19650010570	19650324
	FR5371 M	19670911	FR19650044338	19651230
	GB1097173 A	19671229	GB19650012812	19650325
	GB1127927 A	19680918	GB19650041623	19650930
	GB1127928 A	19680918	GB19650041624	19650930
	GB1127929 A	19680918	GB19650041625	19650930
	GB1127930 A	19680918	GB19650041626	19650930
	IL23184 A1	19681127	IL19650023184	19650319
	NL6503853 A	19650927	NL19650003853	19650325
	NL6512721 A	19660413	NL19650012721	19650930
	SE314071 B	19690901	SE19650012455	19650924
	SE345687 B	19720605	SE19650003760	19650323
	US3367944 A	19680206	US19650489412	19650922
	US3428648 A	19690218	US19670624139	19670320
	US3487089 A	19691230	US19680701573	19680130
	US3597325 A	19710803	US19680751705	19680812
	US3699121 A	19721017	US19670649745	19670628

Probable Assignee:FUJISAWA PHARMACEUTICAL CO

Assignee(s):(std):FUJISAWA PHARMACEUTICAL CO

Assignee(s):FUJISAWA PHARMACEUTICAL CO LTD ; FUJISAWA PHARMACEUTICAL COL ; FUJISAWA YAKUHI
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PHARM CO LTD ; FUJISAWA PHARMA CO LTD

Inventor(s):(std):FUKUDA A ; FUKUDA AKIO ; GAKUZO TAMURA ; HIDEYO NOGUCHI ; HIROSHI IMANAKA ; HITOSHI
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KAZUO KARIYONE ; KEI ARIMA ; KISHIMOTO TEIJI ; KOUSAKA M ; KOUSAKA MASANOBU ; KUNIIHIKO
TANAKA ; MASANOBU KOUSAKA ; NAKAMURA HITOSHI ; NOGUCHI HIDEYO ; SUMINORI UMIO ;
TAMURA G ; TAMURA GAKUZO ; TANAKA K ; TANAKA KUNIIHIKO ; TEIJI KISHIMOTO ; UEDA IKENO ;
UMIO S ; UMIO SUMINORI ; AKIO FUKUDA ; ARIMA K ; ARIMA KEI

Inventor(s):FUJISAWA PHARMACEUTICAL CO LTD

International classC07D207/34 C12P17/10 (Advanced/Invention);
(IPC 8-9):C07D207/00 C12P17/10 (Core/Invention);
C07D (Subclass/Invention)

International classA61K21/00 A61K27/00 C07D207/34 C07D27/20 C07D27/22 C12D9/04 C12D9/20 C12D9/22
(IPC 1-7):

CPC:Y10S435/874 Y10S435/875 C12R1/38 C07D207/34 C12P17/10 C12R1/385

European class:124HB2A0C5 124HB2A2DA 124HB2A2DC 30I3H30B 45L8J21 C07D207/34 C12P17/10 C12R1/38
C12R1/385

US class:195/96 260/313.1 260/326.3 260/326.9 435/121 435/874 435/875 548/532 548/533 548/560 560/35
560/38

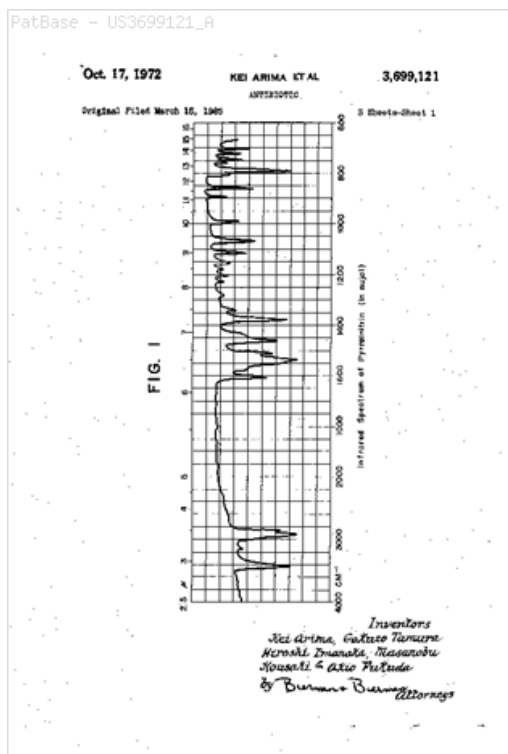
[Classification Explorer](#)

Forward Citations:

WO9002733, US8106089, US6391827, US5470974, US5455263, US5310938, US5281719, US5229524,
US5157047, US5010098, US4929634, US4923994, US4652582, US4636520, US4511575, US4326881,
US4175568, US2008269051, FR2636063, FR2593175, FR2472611, FR2430940, EP1061072, EP0426948,
EP0312723, EP0089393, EP0089392, EP0080051, EP0067370, EP0051442, EP0019978,

Abstract:

ABSTRACT OF THE DISCLOSURE The derivatives are halo, nitro or alkoxy phenyl pyrroles which are useful as fungicide for medicinal and agricultural applications and/or as key intermediates in the preparation of pyrrolnitrin which is produced by fermentation and which is particularly efficacious in the treatment of athlete's foot. Efficient methods are also proposed for production of the derivatives. CROSS-REFERENCES TO RELATED APPLICATIONS This application is a continuation-in-part of the copending applications S.N. 489,412 filed on Sept. 22, 1965, now U.S. Patent No. 3,367,944; S.N. 489,413; S.N. 489,- 429; and S.N. 489,432, all filed on Sept. 22, 1965 now all abandoned. B

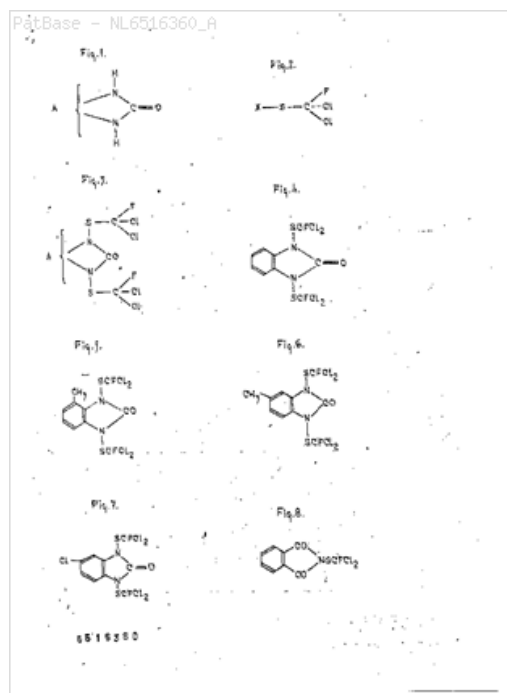


Title: N, n'-disubstituted benzimidazolones**Priority:** DE1964F044728 19641216

Family:	Publication number	Publication date	Application number	Application date
	BE673780 A	19660401		19651215
	CH471792 A	19690430	CH19650016505	19651130
	DE1215162 B	19660428	DE1964F044728	19641216
	DE1215162 C2	19661103	DE1964F044728	19641216
	FR1481059 A	19670519	FR19650042644	19651216
	GB1093730 A	19671206	GB19650053533	19651216
	IL24735 A1	19690528	IL19650024735	19651205
	NL6516360 A	19660617	NL19650016360	19651215
	US3369027 A	19680213	US19650511314	19651203

Probable Assignee: BAYER AG**Assignee(s):(std):** BAYER AG**Assignee(s):** F BAYER AG ; FARBENFABRIKEN BAYER AG ; FARBENFABRIKEN BAYER AKTIENGESELLSCHAFT**Inventor(s):(std):** ENGELBERT KUHLE ; ERICH KLAUKE ; FRITZ STEINFATT ; GLADBACH BERGISCH ; KLAUKE DR ERICH ; KLAUKE ERICH ; KLAUKE ERICH DR ; KUEHLE DR ENGELBERT ; KUEHLE ENGELBERT ; KUEHLE ENGELBERT DR ; KUHLE ENGELBERT ; STEINFATT DR FRITZ ; STEINFATT FRITZ ; STEINFATT FRITZ DR**International class (IPC 8-9):** C07D235/02 C07D235/26 C07D473/00 (Advanced/Invention); C07D235/00 C07D473/00 (Core/Invention)**International class (IPC 1-7):** A01N9/12 C07D233/26 C07D233/32 C07D233/38 C07D235/26 C07D49/34 C07D49/38**CPC:** C07D235/02 C07D235/26 C07D473/00**European class:** 30I3H14B C07D235/02 C07D235/26 C07D473/00**US class:** 260/309.2 424/404 523/122 524/93 548/306.7[Classification Explorer](#)**Cited documents:** US3249620 A, DEG12962 B, BE621711 A,**Forward Citations:** US5283271, US3960857, US3624212, US3531433, US3499085, DE3311925,**Abstract:**

Imidazolone derivatives of the formula wherein A represents a phenylene ring optionally substituted by a methyl or nitro group or by chlorine atoms, are incorporated in polyurethanes, during the preparation thereof, to impart an **antimicrobial** finish to the polymers. Examples 5 and 6 relate to compositions based on elastomers obtained from toluene diisocyanate/polypropylene glycols and diphenylmethane diisocyanate/polyvalent alcohols derived from trihydric alcohols and propylene oxide, from which pipe packings and floor coverings are manufactured. ALSO: The invention comprises imidazolones of the formula wherein A represents a phenylene ring optionally substituted by chlorine atoms, or a nitro or C1-4 alkyl group. The compounds are made by reacting an imidazolone of the formula with a sulphenyl halide wherein X is Cl or Br, in a molar ratio of 1:2 respectively, preferably in the presence of an acid acceptor, e.g. a tertiary amine, and an inert organic solvent at temperatures in the range 10-100 DEG C. The compounds are used as anti-microbial agents (see Divisions A5, C3 and D2). Examples relate to compounds derived from benzimidazolone and 4-methyl-, 5-methyl- and 5-chloro-benzimidazolones. ALSO: Imidazolone derivatives of the formula: wherein A represents a phenylene ring, optionally substituted by chlorine atoms or by methyl or nitro groups, are used to impart an **antimicrobial** finish to paper. Example 4 relates to the preparation of a mould-proof packing paper by treating the paper web between the wet part and dry end of the paper machine. ALSO: Imidazolone derivatives possessing **antimicrobial** activity have the general formula wherein A represents a phenylene ring optionally substituted by chlorine atoms or nitro or C1-4 alkyl groups. The compounds are used to provide a **antimicrobial** finish to textiles, leather, paper, rubber and synthetic polymer materials. Examples 4-6 describe the preparation of mould-proof paper and polyurethane pipe packing and floor covering. The activity of the present compounds is compared with that of



Title: Novel insecticidal carbamate-propar-gylaryl ether compositions

Priority: US19650433209 19650216 US19650485908 19650908 US19650485911 19650908
 US19650485922 19650908 US19650485904 19650908 US19650485947 19650908
 US19650485934 19650908 US19650485951 19650908 US19650486545 19650910
 CH19660001165 19660127 CH19660013706 19660127 FR19660049432 19660214
 NO19660161707 19660215 US19660531371 19660303 CH19660012235 19660824
 DE1966H060346 19660826 FR19660075211 19660905 FR19660075333 19660906
 NO19690001201 19690321 US19690828731 19690528 US19720232244 19720306

Family:

Publication number	Publication date	Application number	Application date
AT276852 B	19691210	AT19660008094	19660826
AU1020266 A1	19680229	AU19660010202	19660825
BE676476 A	19660816		19660215
BE686415 A	19670306		19660905
BE686416 A	19670306		19660905
BE694744 A	19670828		19670228
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BR6682528 A0	19730308	BR19660182528	19660901
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OA2257 A	19700505	OA19660052576	19660829
SE346985 B	19720724	SE19660002009	19660216
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US3362871 A	19680109	US19650486545	19650910
US3423428 A	19690121		19660303
US3489805 A	19700113		19650908
US3686331 A	19720822	US19690828731	19690528
US3804905 A	19740416	US19720232244	19720306

Probable Assignee: HOFFMANN LA ROCHE

Assignee(s):(std): F HOFFMANN LA ROCHE AND CO AG ; F HOFFMAN LA ROCHE Y CIE S A ; HOFFMANN LA ROCHE S A F ; HOFFMANN LA ROCHE ; SPARAMEDICA AG ; HOFFMANN LA ROCHE AND COMPANY A

Assignee(s): F HOFFMAN LA ROCHE Y CIE ; HOFFMANN F LA ROCHE U CO AG ; HOFFMANN F LA ROCHE UND CO ; HOFFMANN LA ROCHE F AND CIE SA ; HOFFMANN LA ROCHE INC ; HOFFMANN LA ROCHE INC US ; HOFFMANN LA ROCHE AND CO ; F HOFFMANN LA ROCHE AND CIE S A ; F HOFFMANN LA ROCHE AND CIE SOC ANONYME ; F HOFFMANN LA ROCHE AND CIE SOCIETE ANONYME ; HOFFMANN F LA ROCHE AND CO AG ; F HOFFMANN LA ROCHE AND COMPAGNIE SOCIETE ANONYME ; F HOFFMANN LA ROCHE

AND CO ; F HOFFMANN LA ROCHE AND COMPANY A G ; F HOFFMANN LA ROCHE S A ; F HOFFMANN LA ROCHE AND CO AKTIENGESELLSCHAFT ; F HOFFMANN LA ROCHE AND CO A G ; FHOFFMANN LA ROCHE AND CO AG ; F HOFFMANN LAROCHE AND CO AG

Inventor(s):(std):

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Inventor(s):

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Agent(s):

REINHOLD COHN AND PARTNERS

**International class
(IPC 8-9):**

A01N31/14 A01N33/22 A01N43/30 A01N47/10 A01N47/22 A61K31/075 A61K31/085 B29C53/00 C07C39/18 C07C43/14 C07C43/20 C07C43/225 C07D317/44 C07D317/52 C07D317/64 (Advanced/Invention); C07C43/20 (Advanced/Non-invention); A01N31/00 A01N33/00 A01N43/02 A01N47/10 A61K31/075 B29C53/00 C07C39/00 C07C43/00 C07D317/00 (Core/Invention); C07C43/00 (Core/Non-invention)

**International class
(IPC 1-7):**

A01M A01N31/14 A01N33/22 A01N39/00 A01N43/30 A01N47/10 A01N47/22 A01N9/00 A01N9/02 A01N9/12 A01N9/20 A01N9/24 A01N9/26 A61L13/00 C07C125/06 C07C149/00 C07C149/30 C07C149/32 C07C149/34 C07C43/00 C07C43/14 C07C43/17 C07C43/20 C07C43/27 C07C43/28 C07C79/34 C07C79/355 C07D13/10 C07D317/44 C07D317/52 C07D317/64 C12O19/03 D06M13/10

CPC:

C07C323/00 C07D317/64

European class:

124BC4A3A 124BC4B3C 124HA24B4B 30I3D 30I3H2 45L7B 45L8E3 45L8J1 45L8M C07C323/00 C07D317/64

US class:

106/15 106/18.31 167/31 260/340.5 260/60.9E 260/609E 260/612 260/612D 424/340 514/404 514/479 549/437 568/38 568/44 568/52 568/54 568/56 568/58 568/584 568/588 568/648 568/649 568/656 568/657 8/94.1R

[Classification Explorer](#)

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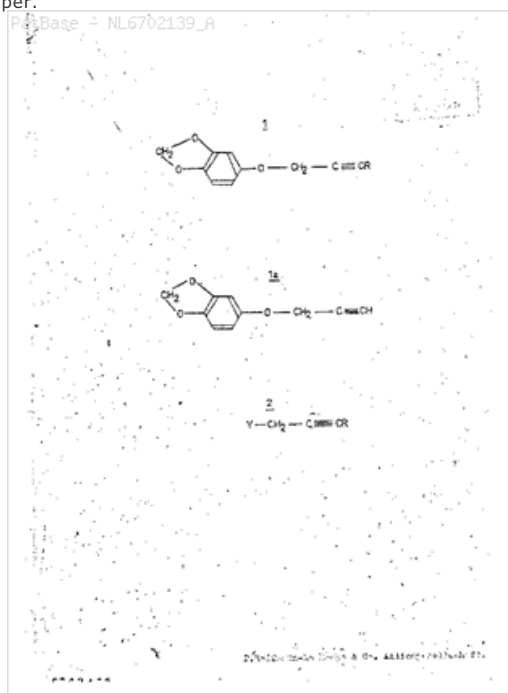
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Forward Citations:

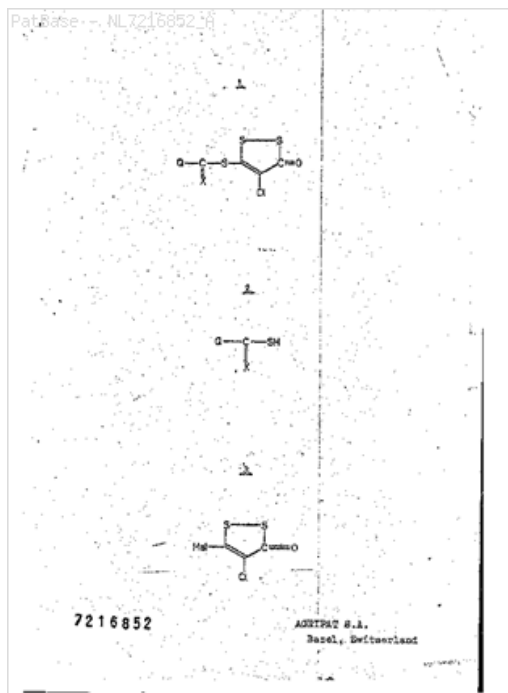
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Abstract:

Paints, e.g. linseed oil based paints, contain an antibacterial and antifungal agent having the formula (I) Ar-Y-CH₂-CCR wherein Y represents an oxygen or sulphur atom, R represents a hydrogen or halogen atom and Ar represents a group of the formula or, except where R represents a hydrogen atom, a group of the formula in which groups X represent a halogen atom p represents an integer from 1 to 5 (the nitro group of the Formula Ia being in the ortho- or meta-position when p represents 1, Y represents an oxygen atom and R represents a hydrogen or iodine atom) and m and n represent integers of 1 to 4 according to the availability of position or positions. ALSO: The invention comprises compounds of the formula Ar-Y-CH₂-C CR wherein Y represents an oxygen or sulphur atom, R represents a hydrogen or halogen atom and Ar represents a group of the formula or, except where R represents a hydrogen atom, a group of the formula in which groups X represent a halogen atom, p represents an integer of from 1 to 5 (the nitro group in the group of Formula Ia being in the ortho- or meta-position when p represents 1, Y represents an oxygen atom and R represents a hydrogen or iodine atom) and m and n represent integers of from 1 to 4 according to the availability of position or positions; and their preparation by (a) reacting a compound of the formula Ar-YH with a 3-halo-propyne and, where required, halogenating the reaction product of the formula Ar-Y-CH₂-C CH or (b) condensing a compound of the formula Ar-YH with a 1,3-dihalo-propyne. 1-Iodo-3-bromo-propyne is prepared by reacting 3-bromo-propyne with iodine in the presence of sodium hydroxide. ALSO: Synthetic resinous materials, in particular vinyl chloride-acetate resins, contain an antibacterial and antifungal agent having the formula (I) Ar-Y-CH₂-CCR wherein Y represents an oxygen or sulphur atom, R represents a hydrogen or halogen atom and Ar represents a group of the formula or or, except where R represents a hydrogen atom, a group of the formula in which groups X represents a halogen atom, p represents an integer from 1 to 5 (the nitro group in the group of Formula Ia being in the ortho- or meta-position when p represents 1, Y represents an oxygen atom and R represents a hydrogen or iodine atom) and m and n represent integers of from 1 to 4 according to the availability of position or positions. ALSO: Pharmaceutical and disinfectant compositions, having antibacterial and antifungal activity, comprise a compound of the formula: wherein Y represents an oxygen or sulphur atom, R represents a hydrogen or halogen atom and Ar represents a group of the formula: or or, except where R represents a hydrogen atom, a group of the formula: in which groups X represents a halogen atom, p represents an integer from 1 to 5 (the nitro group in the group of the formula Ia being in the ortho or meta-position when p represents 1, Y represents an oxygen atom and R represents a hydrogen or iodine atom) and m and n represent integers of 1 to 4 according to the availability of position or positions. The above compounds may also be used as additives to cosmetics and in treating fibrous materials, leather, textiles, wood and paper.



Title:	CERTAIN SUBSTITUTED 1,2-DITHIOL-3-ONES																																																																																																																															
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Probable Assignee:	CIBA GEIGY CORP																																																																																																																															
Assignee(s):(std):	AGRIPAT S A BASEL SCHWEIZ ; AGRIPAT SA ; CIBA GEIGY CORP ; GEIGY CHEM CORP																																																																																																																															
Assignee(s):	GEIGY CHEMICAL CORP ; AGRIPAT S A ; CIBA GEIGY CORP US																																																																																																																															
Inventor(s):(std):	BADER J ; BADER JOERG DR ; BADER JORG ; GAETZI KARL DR ; GATZI K ; GATZI KARL ; KARL GAETZI ; JOERG BADER ; GAETZI K																																																																																																																															
Inventor(s):	BADER JOERG ; BADER J CH ; AGRIPAT SA ; JORG BADER AND KARL GATZI ; GATZI K CH ; GAETZI KARL ; JORG BADER ; KARL GATZI																																																																																																																															
Agent(s):	REINHOLD COHN AND PARTNERS																																																																																																																															
International class (IPC 8-9):	A01N43/26 C07D339/04 C07D409/12 C07D413/12 C07D417/12 (Advanced/Invention); A01N43/02 C07D339/00 (Core/Invention); A01N C07D (Subclass/Invention)																																																																																																																															
International class (IPC 1-7):	A01N43/26 A01N9/12 A01N9/14 A01N9/22 A61K27/00 C07D31/50 C07D339/04 C07D409/06 C07D409/12 C07D413/12 C07D71/00 C07D71/02 C07D99/02 C07D99/06 D06M13/00																																																																																																																															
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Abstract:	ABSTRACT OF THE DISCLOSURE CROSS REFERENCE TO RELATED APPLICATION This application is a continuation-in-part of our patent application Ser. No. 555,994, filed June 8, 1966, now abandoned. B																																																																																																																															



Title: Fungicidal composition and method containing 2-amino-pyrimidines

Priority: GB19660014271 19660331 GB19660014271 19670224 GB19670030348 19670224
 GB19670014271 19670224 US19670619607 19670301 FR19670100717 19670329
 GB19670030354 19670630 US19680741254 19680701 US19710207530 19711213
 US19760650864 19760121

Family:	Publication number	Publication date	Application number	Application date
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	YU63067 A	19770630	YU19670000630	19670331

Probable Assignee: ICI LTD

Assignee(s):(std): ICI LTD ; IMP CHEMICAL IND LTD

Assignee(s): IMP CHEMICAL IND PLC ; IMPERIAL CHEM IND LTD ; IMPERIAL CHEM IND LTD GB ; IMPERIAL CHEMICAL IND LTD ; IMPERIAL CHEMICAL INDUSTRIES LIMITED ; IMPERIAL CHEMICAL INDUSTRIES LIMITED LONDON ; IMPERIAL CHEMICAL INDUSTRIES LTD LONDON ; IMPERIAL CHEMICAL INDUSTRIES LTD

Inventor(s):(std): B K SNELL ; BRACKNELL ; BRACKNELL BERKSHIRE GROSSBRITA ; BRIAN KENNETH SNELL ; ELIAS R ; ELIAS R GB ; ELIAS R S ; ELIAS RICHARD S ; ELIAS RICHARD STEWART ; FREEMAN P ; FREEMAN P F H ; FREEMAN P GB ; FREEMAN PETER F H ; FREEMAN PETER FRANK HILARY ; FREEMANN P ; FREEMANN P GB ; FREEMANN PETER FRANK HILARY ; R S ELIAS ; RICHARD STEWART ELIAS ; SNELL B ; SNELL B GB ; SNELL B K ; SNELL BRIAN K ; SNELL BRIAN KENNETH ; P F H FREEMAN ; PETER FRANK FREEMAN ; PETER FRANK HILARY FREEMAN

Inventor(s): PETER FRANK HILARY FREEMANN ; STEWART ELIAS RICHARD ; WIRD WPAETER GENANNT WERDEN ; HILARY FREEMAN PETER FRANK ; KENNETH SNELL BRIAN ; FRANK FREEMAN PETER

Agent(s): S HOROWITZ AND CO

International class (IPC 8-9): C07D239/46 C07D239/47 C07D239/48 C07D239/52 C07D239/56 C07D239/69 C07D401/04 C07D401/12 C07D413/04 C07F3/10 (Advanced/Invention); C07D239/46 (Advanced/Non-invention); C07D239/00 C07D401/00 C07D413/00 C07F3/00 (Core/Invention)

International class (IPC 1-7): A01N43/54 A01N5/00 A01N9/00 A01N9/12 A01N9/14 A01N9/20 A01N9/22 C05G3/02 C07D239/00 C07D239/32 C07D239/44 C07D239/46 C07D239/47 C07D239/48 C07D239/52 C07D239/56 C07D401/04 C07D401/12 C07D403/04 C07D413/04 C07D51/42 C07D51/46 C07D57/00 C07D99/02

CPC: C07D239/47 C07D239/48 C07D239/52 C07D239/56 C07D239/69 C07D401/04 C07D401/12 C07D413/04 C07F3/103

US class: 260/256.4C 424/251 47/57.6 504/101 514/272 544/122 544/123 544/225 544/227 544/251 544/253
544/295 544/296 544/320 544/321

Cited documents: US3299067 A, US3219522 A, US3207758 A, US3152112 A, US3118754 A, US2994637 A, US2610186 A, US2610185 A, US2443303 A, US2422888 A, IT662501 A, GB951432 A, AU245623 A1,

Forward Citations: WO9931072, WO9818784, WO8000966, WO15036563, WO10139271, WO10025871, WO08145052, US9937183, US9845297, US9708272, US9573962, US9216979, US6995159, US6548511, US6545008, US6495558, US6352993, US6252076, US5773443, US5712276, US5684005, US5635507, US5597828, US5597827, US5591746, US5554617, US5434157, US5002951, US4992431, US4876252, US4874775, US4814337, US4788195, US4774335, US4665077, US4656176, US4649141, US4600720, US4593096, US4540699, US4537779, US4535080, US4525477, US4521418, US4507302, US4496567, US4470985, US4460589, US4439435, US4399142, US4384118, US4341787, US4305945, US4255428, US4238493, US4029784, US3932617, US2016060226, US2013090326, US2005032809, JP60094970, JP2016121171, FR2474496, FR2281065, EP2679096, EP2679095, EP2679094, EP2489268, EP2489267, EP2489266, EP2489265, EP2161259, EP0981958, EP0138464, EP0055692, EP0019450, EP0013071, DE3341343, CN103387546, CN103387546, CN102461503.

Fungicidal pyrimidine derivatives and the use thereof in combatting plant diseases. Representative derivatives are 2-dimethylamino-4-methyl-5-n-pentyl-6-hydroxypyrimidine and 2-dimethylamino-4-methyl-5-n-propyl-6-hydroxypyrimidine.

[illegible]

Title:	NOVEL NITROFURAN DERIVATIVE AND A PROCESS FOR THE PREPARATION THEREOF			
Priority:	JP19660030527 19660513	JP19660047294 19660721	JP19670007571 19670207	
	JP19670012988 19670228	JP19670012989 19670228	FR19670106432 19670516	
	JP19670042657 19670703	JP19670060177 19670921	JP19670060479 19670922	
	JP19670063019 19671002	JP19670063020 19671002	JP19670065169 19671012	
	JP19670067451 19671020	JP19670067807 19671023	JP19670067808 19671023	
	JP19680007571 19680207			

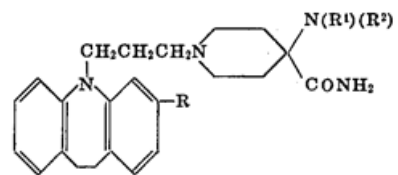
Family:	Publication number	Publication date	Application number	Application date
	BE698447 A	19671016		19670512
	BE711427 A	19680701		19680228
	BR6800306 A0	19730213	BR19680200306	19680701
	BR6906147 A0	19730116	BR19690206147	19690205
	CH492734 A	19700630	CH19680002880	19680228
	CH497441 A	19701015	CH19680009906	19680703
	CH503461 A	19710228	CH19680001782	19680207
	CH505844 A	19710415	CH19690001823	19690206
	CH511882 A	19710831	CH19680002788	19680227
	CH568316 A	19751031	CH19700008326	19680227
	DE1695317 A1	19700917	DE19671695317	19670510
	DE1695352 A1	19720413	DE19681695352	19680228
	DE1770775 A1	19711209	DE19681770775	19680702
	DE1905765 A1	19690904	DE19691905765	19690206
	DE1905765 B2	19780803	DE19691905765	19690206
	DE1905765 C3	19790405	DE19691905765	19690206
	FR1522922 A	19680426	FR19670106432	19670516
	FR1575598 A	19690725		19680227
	FR2001472 A1	19690926	FR19690002750	19690206
	FR6662 M	19690127		19670516
	FR7904 M	19700511		19680702
	FR8044 M	19700810		19680227
	GB1161031 A	19690813	GB19670022217	19670512
	GB1211566 A	19701111	GB19680009475	19680227
	GB1228736 A	19710415		19690206
	GB1231613 A	19710512		19680702
	IT1045452 A	19800510	IT19670016076	19670513
	NL6706703 A	19671114	NL19670006703	19670512
	NL6802748 A	19690408	NL19680002748	19680227
	NL6802825 A	19690325	NL19680002825	19680228
	SE338996 B	19710927	SE19690001679	19690207
	SE349031 B	19720918	SE19680009069	19680701
	US3557102 A	19710119		19680226
	US3574202 A	19710406		19670509
	US3637713 A	19720125	US19680742135	19680703
	US3668210 A	19720606	US19690796163	19690203

Probable Assignee:	UENO SEIYAKU OYO KENKYUJO KK
Assignee(s):(std):	UENO SEIYAKU OYO KENKYUJO KK ; UENO SEIYAKU KENKYUJO KK ; YOSHITOMI PHARMACEUTICAL ; UENO SEIYAKU OYO KENYUJO KK ; UENO SEIYAKU OYO KENKYUJO KK
Assignee(s):	YOSHITOMI PHARMA IND LTD ; UENO SEIYAKU OYO KENKYUJO ; YOSHITOMI PHARMACEUTICAL IND LTD ; YOSHITOMI PHARMACEUTICAL INDUSTRIES LTD ; YOSHITOMI PHARMACEUTICAL INDUSTRIES LTD OSAKA JAPAN ; YOSHITOMI PHARM IND LTD ; KABUSHIKI KAISHA UENO SEIYAKU KENKYUJO ; KABUSHIKI KAISHA UENO SEIYAKU OYO KENKYUJO ; KABUSHIKI KAISHA UENO SEIYAKU OYO KENKYUJO ; KABUSHIKI KAISHA UENO SEIYAKU OYO KENKYUJO
Inventor(s):(std):	CHIAKI TASHIRO ; HIRAO ICHIRO ; ICHIRO HIRAO ; KATO YASUHIKO ; MICHIO NAKANISHI ; NAKANISHI M ; NAKANISHI MICHIO ; RYUZO UENO ; TAHIRO C ; TASHIRO C ; TASHIRO CHIAKI ; UENO RYUZO ; YASUHIKO KATO
Inventor(s):	TASHIRO CHIAKI YOSHITOMIMACHI FUKUOKA ; NAKANISHI MICHIO NAKATSU OITA
International class (IPC 8-9):	A23K1/16 A23L3/3526 A23L3/3535 A23L3/3544 C07D307/71 (Advanced/Invention); A23K1/16 A23L3/3463 C07D307/00 (Core/Invention)
International class (IPC 1-7):	A01N9/22 A23L3/34 A61K27/00 A61K31/395 A61K31/41 A61K31/445 A61K31/55 A61L13/00 C07D307/70 C07D307/72 C07D401/06 C07D401/14 C07D41/00 C07D41/08 C07D413/14 C07D57/00 C07D85/54 C07D99/02 C07D99/10 C07J5/00
CPC:	Y10S514/96 Y10S514/962 Y10S514/929 A23K20/116 A23L3/3526 A23L3/3535 A23L3/3544 C07D307/71
European class:	124HB1B41A+B6H 124HB41A4F4 124HC1B4+A2B1 124HC1B41A+B6H 30I3H30 45L3A5B 45L8J29 53A16 A23K1/16F A23L3/3526 A23L3/3535 A23L3/3544 C07D307/71
US class:	252/380 260/239D 260/240.1 260/293.59 260/293.63 260/293.86 424/267 424/49 426/532 426/654 514/929 514/960 514/962 523/122 524/95 540/543 540/592 546/19 548/143

[Classification Explorer](#)

Cited documents:	US3329683 A, US3313810 A, FR3872 A,
Forward Citations:	WO9931058, WO12044761, WO10095940, WO08036682, WO06116718, WO03009815, US6048856, US5599929, US4337260, US3886170, US3760079, FR2123167, FR2123167, EP2392258, EP2147679, EP0073845, CN102519663,

Abstract:
ABSTRACT OF THE DISCLOSURE A novel nitrofuran derivative which is 2-substituted amino - 5 - [2(5-nitro-2-furyl)-l-(2-furyl)vinyl] - 1,3,4-oxadiazole wherein the 2-substituted amino group is sulf-amino, hydroxymethylamino, and mono- or di-lower alkyl-amino group. It has a very potent **antimicrobial** activity and broad **antimicrobial** spectrum as well as very low toxicity, and is useful as an active component of a microorganism inhibitor.



Title: 1-SUBSTITUTED-2-NITROIMIDAZOLE DERIVATIVES**Priority:** US19660556585 19660610 CH19670007484 19670525 FR19670109539 19670608
NO19670168540 19670609 US19690840077 19690423 NO19690002460 19690613
NO19690002461 19690613

Family:	Publication number	Publication date	Application number	Application date
	AT278003 B	19700126	AT19670009990	19670529
	AT278004 B	19700126	AT19680009991	19670529
	AT278005 B	19700126	AT19680009992	19670529
	AT278777 B	19700210	AT19680009993	19670529
	BE699358 A	19671201		19670601
	CH503741 A	19710228	CH19670007484	19670525
	CH508632 A	19710615	CH19670084771	19670525
	CH512492 A	19710915	CH19690018914	19670525
	CH512493 A	19710915	CH19690018915	19670525
	CH513879 A	19711015	CH19690018916	19670525
	DE1695189 A1	19710408	DE19671695189	19670527
	DK130585 B	19750310	DK19670003034	19670609
	DK130585 C	19750811	DK19670003034	19670609
	ES341604 A1	19681201	ES19670341604	19670609
	FI48083 B	19740228	FI19670001632	19670609
	FI48083 C	19740610	FI19670001632	19670609
	FR1525835 A	19680517	FR19670109539	19670608
	FR6691 M	19690210		19670607
	GB1139455 A	19690108	GB19670026766	19670609
	GR36787 B	19690310	GR19670136787	19670608
	IL28090 A1	19711129	IL19670028090	19670531
	NL6708044 A	19671211	NL19670008044	19670609
	NO118921 B	19700302	NO19670168540	19670609
	NO120034 B	19700817	NO19690002460	19690613
	NO120035 B	19700817	NO19690002461	19690613
	SE345454 B	19720529	SE19670007578	19670530
	US3468902 A	19690923		19660610
	US3549653 A	19701222	US19690840077	19690423

Probable Assignee: HOFFMANN LA ROCHE**Assignee(s):(std):** HOFFMANN LA ROCHE ; SPARAMEDICA AG**Assignee(s):** F HOFFMANN LA ROCHE AND COMP SOC ANONYME ; F HOFFMANN LA ROCHE AND CO AKTIENGESSELLSCHAFT ; F HOFFMANN LA ROCHE AND COMPAGNIE SOCIETE ANONYME ; HOFFMANN LA ROCHE INC ; HOFFMANN LA ROCHE AND CO AG ; F HOFFMANN LA ROCHE AND CIE ; F HOFFMANN LA ROCHE AND CIE S A ; F HOFFMANN LA ROCHE AND CO ; F HOFFMANN LA ROCHE AND CO AG ; F HOFFMANN LA ROCHE AND CO AG CH**Inventor(s):(std):** ALDEN GAMALIEL BEAMAN ; BEAMAN ; BEAMAN A ; BEAMAN A G ; BEAMAN ALDEN GAMALIEL ; DUSCHINASKY R ; DUSCHINSKY ; DUSCHINSKY R ; DUSCHINSKY ROBERT ; GAMALIEL BEAMAN ALDEN ; PAUL TAUTZ WILLIAM ; ROBERT DUSCHINSKY ; TAUTZ ; TAUTZ W ; TAUTZ W P ; TAUTZ WILLIAM PAUL ; WILLIAM PAUL TAUTZ**Inventor(s):** TAUTZ W US ; DUSCHINSKY R FR ; BEAMAN A US**Agent(s):** REINHOLD COHN AND PARTNERS**International class (IPC 8-9):** C07D233/91 (Advanced/Invention); C07D233/00 (Core/Invention)**International class (IPC 1-7):** A61K27/00 A61K31/415 A61K9/06 C07D1/00 C07D233/91 C07D233/92 C07D49/18 C07D49/36**CPC:** C07D233/91**European class:** 124HC1B3B1+A2 30I3H30 C07D233/91**US class:** 260/309 548/311.1 548/327.5 549/555 549/558[Classification Explorer](#)**Cited documents:** US3280139 A,**Forward Citations:** US5886190, US5728843, US5532380, US4464381, US4358571, US4288448, US3940415, US3852301, US3755349, FR2400512, EP0093963, EP0000928,**Abstract:**

ABSTRACT OF THE DISCLOSURE Anti-microbial 2-nitroimidazole derivatives are prepared by reacting 2-nitroimidazole with 1,2-propylene oxide or a substituted oxirane derivative, e.g., epihalohydrin. The reaction products can be further converted to the corresponding epoxides, esters, ketones or semicarbazones. R¹ R² - $\text{---gt;---NOa---N-I Z I}$ wherein: R¹ and R² are each independently selected from the group consisting of hydrogen and lower alkyl; Z represents one of the following groups: (a) (b) (c) W) (u) $\text{---CH}^{\wedge}\text{CH---CHa Y---CHa---CH---CHa---Rs OH---CHa---C---CHa---R3 I O---Acyl---CHa---C---CHa---Rs II O---Chi-C---Chi-Ei il N---NHCONHa RiRa---N.---N'---NOa CHR---CH---CHj \ / O}$ wherein: and R² have the same meaning as above and pharmaceutically acceptable salts thereof. In another specific aspect the invention relates to compounds of the formula This application is a continuation-in-part of application Ser. No. 447,087 filed Apr. 9, 1965, now abandoned.



Title: 2{40 -(5{40 -Nitrofuryl)-substituted quinolines and process for preparing same

Priority: IL19660026022 19660623 US19670643830 19670606 US19710204694 19711203
US19740516361 19741021 US19780900815 19780427

Family:

Publication number	Publication date	Application number	Application date
BE700393 A	19671227		19670623
DE1645978 A1	19710128	DE1967A056008	19670619
DE1645978 B2	19790726	DE1967A056008	19670619
DE1645978 C3	19800403	DE1967A056008	19670619
DK134159 B	19760920	DK19670003236	19670622
DK134159 C	19770221	DK19670003236	19670622
FR7561 M	19700105		19670622
GB1146386 A	19690326	GB19670026042	19670606
IL26022 A1	19710623	IL19660026022	19660623
NL155015 B	19771115	NL19670008540	19670620
NL6708540 A	19671227	NL19670008540	19670620
US4087427 A	19780502	US19670643830	19670606
US4217456 A	19800812	US19780900815	19780427
US4224448 A	19800923	US19770909401	19771019

Probable Assignee: HABER R

Assignee(s):(std): ABIC LTD ; HABER RAPHAEL RALPH GEORGE ; HABER RAPHAEL R G ; SCHOENBERGER EVA ; ISRAEL ; HABER R ; HABER DR RALPH GEORGE ; EVA SCHONBERGER ; SCHOENBERGER E ; SCHONBERGER EVA

Assignee(s): SCHOENBERGER EVA RAMAT YOSEF ; HABER RALPH GEORGE DR ; HABER RALPH GEORGE DR GIVATAYIM ; HABER R R G ; RAPHAEL RALPH GEORGE HABER ; ABIC LTD RAMAT GAN ; EVA SCHOENBERGER ; ABIC LIMITED ; ABIC LIMITED RAMAT GAN DR RAPHAEL RALPH GEORGE HAB ; ABIC LIMITED RAMAT GAN DR RAPHAEL RALPH GEORGE HABER GIVATAYIM EN EVA SCHOENBERGER RAMAT YOSEF ISRAEL

Inventor(s):(std): SCHONBERGER EVA ; SCHOENBERGER EVA ; HABER RAPHAEL RALPH GEORGE ; HABER RAPHAEL R G ; HABER RALPH GEORGE DR ; GEORGE HABER DR RALPH

Inventor(s): EVA SCHOENBERGER ; HABER R R G ; SCHOENBERGER E ; RAPHAEL RALPH GEORGE HABER ; SCHOENBERGER EVA RAMAT YOSEF

Agent(s): SELIGSOHN GABRIELI AND CO

International class (IPC 8-9): A61K31/00 C07D307/73 (Advanced/Invention); A61K31/00 C07D307/00 (Core/Invention)

International class (IPC 1-7): A61K27/00 A61K31/47 C07D215/00 C07D215/14 C07D215/60 C07D33/34 C07D405/04 C07D413/14

CPC: A61K31/00 C07D307/73

European class: 124HC1B6B+B3C+A2B1 124HC2A2B1 124PA2D3 124PA2F3A2 124PA2F3B2 A61K31/00 C07D307/73

US class: 260/287AR 544/128 546/101 546/110 546/153 546/157 546/167

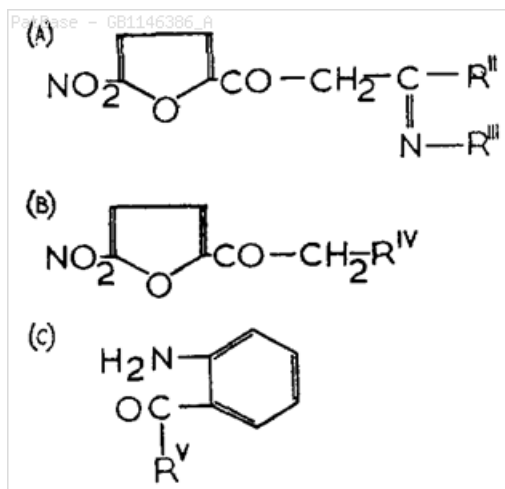
[Classification Explorer](#)

Cited documents: US3496066 A, US3475421 A, US3374239 A, US3352683 A, US3349095 A, US3272828 A, US3157645 A, US2742462 A, NL6708540 A, FR1443177 A,

Forward Citations: WO0013681, WO0013681, US6274596, US4788204, US4224448, FR2315931, DE2839224,

Abstract:

2- AND 4-(5' NITROFURYL)QUINOLINE DERIVATIVES WHICH MAY BE VARIOUSLY SUBSTITUTED ON THE QUINOLINE NUCLEUS HAVE BEEN FOUND TO POSSESS EXCELLENT ANTIBACTERIAL AND ANTIFUNGAL ACTIVITY. Procedures for their manufacture are disclosed.



Title: ANTIMICROBIAL PREPARATIONS CONTAINING N-ACYL-3,4-DIHYDRO-OXAZINES-(1,3)
Priority: IT19660016562 19660716 IT19660020362 19660716 CH19660010525 19660720
IT19670014556 19670404 CH19670009945 19670623

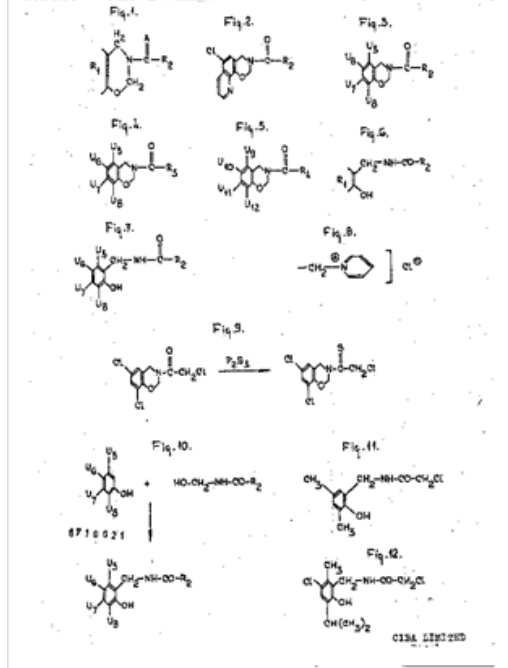
Family:	Publication number	Publication date	Application number	Application date
	AT278779 B	19700210	AT19670006607	19670714
	BE701374 A	19680115		19670714
	BE701541 A	19680119		19670719
	CH481935 A	19691130	CH19660010525	19660720
	CH502342 A	19710131	CH19670010015	19670713
	DE1617992 A1	19710519	DE19671617992	19670711
	DE1695588 A1	19710624	DE19671695588	19670712
	DK115552 B	19691020	DK19670003583	19670711
	ES342923 A1	19690501	ES19670342923	19670711
	ES343199 A1	19690316	ES19670343199	19670719
	FI46510 B	19730102	FI19670001913	19670711
	FI46510 C	19730410	FI19670001913	19670711
	FR1555544 A	19690131		19670630
	FR1555563 A	19690131		19670713
	GB1145544 A	19690319	GB19670028183	19670619
	GB1184378 A	19700318	GB19670033502	19670720
	GR33905 B	19680215	GR19670133905	19670627
	IL28126 A1	19711229	IL19670028126	19670609
	NL6707299 A	19680117	NL19670007299	19670525
	NL6710021 A	19680122	NL19670010021	19670719
	SE325033 B	19700622	SE19670010081	19670630
	US3519624 A	19700707	US19670651397	19670706
	US3520901 A	19700721	US19670651675	19670707

Probable Assignee: CIBA GEIGY
Assignee(s):(std): CIBA LTD ; POLICHIMICA SAP S P A ; POLICHIMICA SAP ; POLICHIMICA SAP SPA ; POLICHIMIA SAP SPA ; CIBA GEIGY ; CIBA GEIGY AG
Assignee(s): CIBA LIMITED ; CIBA AKTIENGESELLSCHAFT ; CIBA S A
Inventor(s):(std): HITZ HANS RUDOLF ; HITZ HANS RUDOLF DR ; HUBER EMDEN HELMUT ; HUBER EMDEN HELMUT DR ; HUBER HELMUT DR ; MAEDER ARTHUR ; MAEDER ARTHUR DR ; MASSAROLI ; MASSAROLI G ; MASSAROLI GIAN GIACOMO ; MASSAROLI GIANGIACOMO ; MASSAROLI GIANGIACOMO DR ; GIANGIACOMO MASSAROLI ; SCHAEFER PAUL ; SCHAEFER PAUL DR
Inventor(s): HANS RUDOLF HITZ ; HELMUT HUBER EMDEN ; ARTHUR MAEDER ; DR GIAN GIACOMO MASSAROLI ; PAUL SCHAEFER
Agent(s): DR YITZHAK HESS AND PARTNERS
International class (IPC 8-9): C07D231/56 C07D265/16 C07D295/14 C07D295/155 C07D498/04 (Advanced/Invention); C07D231/00 C07D265/00 C07D295/00 C07D498/00 (Core/Invention); C07D (Subclass/Invention)
International class (IPC 1-7): A01N43/86 A01N9/22 A61K31/415 A61L13/00 C07D231/56 C07D265/04 C07D265/14 C07D49/20 C07D87/14 C12P8/01
CPC: C07D265/16 C07D231/56 C07D295/14 C07D295/155
European class: 124BG12B 124BG12B1S2B2 124BG12B2F5C3A 124BG12B2F5C3B 124BG12B4A1B3C2 124CB10 124CF6HJ5B7 124HB3A 124HC2B7F+B6A+3 124PA17G 30I3H30 C07D231/56 C07D265/16 C07D295/14 C07D295/155 C07D498/04
US class: 260/244 260/310 526/260 544/160 544/168 544/73 544/90 544/95 546/176 546/233 546/234 548/360.1 548/400 558/392 564/170

[Classification Explorer](#)

Cited documents: GB694489 A,
Forward Citations: WO10034657, WO07095513, WO04101509, WO04101509, US8153663, US7795294, US4322540, US4322430, US4276300, US4051252, US4030906, US4001269, US3945984, US3941754, US3928378, US3711610, US3678046, US2008058313, JP2012503618, EP0140271, CN102164900, AT515029, AT515029,

Abstract:
1,184,378. Pesticides containing oxazines. CIBA Ltd. 20 July, 1967 [20 July, 1966], No. 33502/67. Heading A5E. [Also in Divisions C2 and C3] **Antimicrobial**, fungicidal, bacterial and bacteriostatic preparations contain as active ingredients compounds of the general formula: wherein A is sulphur or oxygen, R 1 represents a benzene ring which is fused in 5, 6 position of the dihydro oxazine ring and which contains at least one substituent and which may further be fused to a heterocyclic ring and R 2 is an aliphatic or aromatic residue bound through a C-atom with the group, or containing polymers derived from the above compounds containing ethylenic unsaturation. Compounds tested **antimicrobially** include N-chloroacetyl-6,8-dichlorobenzoxazine-(1,3) and N-iodoacetyl-6,8- dimethyl-benzoxazine-(1,3). The compounds may be applied to textile materials to provide a preserving and disinfectant finish.



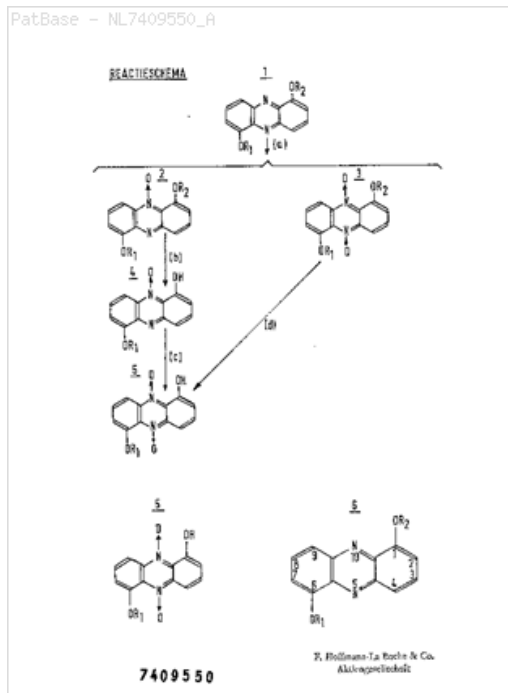
Title: PHENAZINE DERIVATIVES**Priority:** US19660596794 19661125 CH19670015600 19671108 DK19670005882 19671123
NO19670170697 19671124 US19690824695 19690514 NO19710002642 19710709
DK19800005353 19801216 DK19800005354 19801216

Family:	Publication number	Publication date	Application number	Application date
	AT281851 B	19700610	AT19670010534	19671122
	AT281852 B	19700610	AT19670001136	19671122
	AU197014361 A1	19711028	AU19700014361	19700427
	AU207014361 A1	19711028	AU19700014361	19700427
	BE706861 A	19680522	BE19670706861	19671122
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	BE750206 A1	19701112	BE19700750206	19700511
	CA946397 A1	19740430	CA19670005531	19671120
	CH512500 A	19710915	CH19670015600	19671108
	CH520694 A	19720331	CH19710010481	19671108
	CH521358 A	19720415	CH19700005036	19671108
	CH532589 A	19730115	CH19700006173	19700424
	DE1695212 A1	19710318	DE19671695212	19671110
	DE1695212 B2	19740214	DE19671695212	19671110
	DE1695212 C3	19740919	DE19671695212	19671110
	DE1795724 A1	19740228	DE19671795724	19671110
	DE1795724 B2	19780928	DE19671795724	19671110
	DE1795724 C3	19790523	DE19671795724	19671110
	DE2023400 A1	19701119	DE19702023400	19700513
	DK535380 A	19801216	DK19800005353	19801216
	DK535480 A	19801216	DK19800005354	19801216
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	FR1545331 A	19681108	FR19670129677	19671124
	FR2060320 A1	19710618	FR19700017383	19700513
	FR2060320 B1	19740412	FR19700017383	19700513
	GB1142448 A	19690205	GB19670053201	19671122
	GB1254836 A	19711124	GB19700022805	19700512
	GR38359 B	19691030	GR19670138359	19671120
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	US3822265 A	19740702	US19690824695	19690514

Probable Assignee: HOFFMANN LA ROCHE**Assignee(s):(std):** HOFFMANN LA ROCHE ; HOFFMANN LA ROCHE AND CO F AG ; HOFFMANN LA ROCHE AND CO AG F ;
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HOFFMANN LA ROCHE ET CO ; HOFFMANN LA ROCHE LIMITED ; F HOFFMANN LA ROCHE AND CO AG CH
; FHOFFMANN LA ROCHE AND CO AG ; HOFFMANN LA ROCHE ET CIE CH SA ; F HOFFMANN LAROCHE
AND CO AG ; F HOFFMANN LA ROCHE AND CO AG ; HOFFMANN LA ROCHE AND CO ; F HOFFMANN LA
ROCHE AND CO CH AG ; F HOFFMANN LA ROCHE AND CO AKTIENGESELLSCHAFT ; F HOFFMANN LA
ROCHE AND CO AG BASEL SCHWEIZ ; HOFFMANN LA ROCHE ET CIE SA CH ; HOFFMANN F ; HOFFMANN
LA ROCHE AND CO F ; F HOFFMANN LA ROCHE AND CO ; F HOFFMANN LA ROCHE AND CO BASEL
SCHWEIZ AG ; F HOFFMANN LA ROCHE AND CO ; F HOFFMANN LA ROCHE AND CO
AKTIENGESELLSCHAFT ; F HOFFMANN LA ROCHE AND CIE ; F HOFFMANN LA ROCHE AND CIE S A ; F
HOFFMANN LA ROCHE AND CIE S A 124 184 GRENZACH ; F HOFFMANN LA ROCHE AND CIE S A 124 184
GRENZACHERSTRASSE 4002 BALE SUISSE ; F HOFFMANN LA ROCHE AND CIE SA ; F HOFFMANN LA
ROCHE AND CIE SOC ANONYME ; F HOFFMANN LA ROCHE AND CIE SOCIETE ANONYME**Inventor(s):(std):** LEIMGRUBER W ; LEIMGRUBER WILLY ; LEINGRUBER W ; LEINSGRUBER W ; MANFRED WEIGELE ;
WEIGELE M ; WEIGELE MANFRED ; WILLY LEIMGRUBER**Inventor(s):** WILLY LEIMGRUBER AND MANFRED WEIGELE ; WEIGELE MANFRED CEDAR GROVE ; WEIGELE M US ; W
LEINSGRUBER ; M WEIGELE ; LEIMGRUBER WILLY MONTCLAIR ; LEIMGRUBER W US**Agent(s):** REINHOLD COHN AND PARTNERS**International class**
(IPC 8-9): C07D241/52 (Advanced/Invention);
C07D241/00 (Core/Invention);
C07D (Subclass/Invention)**International class**
(IPC 1-7): A61K27/00 C07D241/46 C07D241/52 C07D51/00 C07D51/80**CPC:** Y02P20/55 C07D241/52**European class:** 124HB35B41F 30I3H30B C07D241/52**US class:** 260/267 544/347[Classification Explorer](#)**Cited documents:** US3432505 A, FR1545331 A, FR1525622 A,**Forward Citations:** WO9827969, WO9827969, US6157001, US5637591, US5001952, FR2197877, FR2085792, FR2060320,
CN104974100,

Abstract:

ABSTRACT OF THE DISCLOSURE N-mono- and N,N'-dioxides of dialkoxyphenazines are prepared by oxidation of the appropriate dialkoxyphenazines. The corresponding mono- and di-hydroxyalkoxy-phenazines are prepared by selective ether cleavage of the dialkoxy compounds or by selective mono- or di-alkylation of the dihydroxy or protected mono-hydroxy compounds. The phenazine N,N'-dioxides possess useful **antimicrobial** properties. RELATED APPLICATIONS This application is a continuation-in-part of U.S. Patent Application Ser. No. 596,794, filed Nov. 25, 1966, now abandoned, the benefit of the date of which is hereby claimed.



Title: 2 - AMINO - 5 - (5 - NITRO - 1 - SUBSTITUTED-2 - IMIDAZOLYL) - 1,3,4 - THIADIAZOLES AND OXADIAZOLES

Priority: US19660604158 19661223 US19670659596 19670810 US19690814160 19690407
US19690814205 19690407 US19700017977 19700309 US19700030944 19700422
US19710199005 19711115 US19720217709 19720112 US19730338129 19730305
US19740463951 19740425 US19750562523 19750327 US19760706101 19760716

Family:	Publication number	Publication date	Application number	Application date
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	US3991200 A	19761109	US19750562523	19750327
	US4065567 A	19771227	US19760706101	19760716

Probable Assignee: AMERICAN CYANAMID CO

Assignee(s):(std): AMERICAN CYANAMID CO ; GERALD BERKELHAMMER ; GORO ASATO

Assignee(s): AMERICAN CYANAMID CO US ; AMERICAN CYANAMID COMPANY

Inventor(s):(std): ASATO G ; ASATO GORO ; BERKELHAMMER G ; BERKELHAMMER GERALD

Inventor(s): GERALD BERKELHAMMER ; GORO ASATO ; BERKELHAMMER G US ; ASATO G US

Agent(s): S HOROWITZ AND CO

International class (IPC 8-9): A01N43/82 A01N43/824 A23K1/16 A23K1/18 C07D233/92 C07D233/94 C07D233/95 (Advanced/Invention); A01N43/72 A23K1/16 A23K1/18 C07D233/00 (Core/Invention)

International class (IPC 1-7): A01N43/82 A01N9/00 A01N9/22 A61K27/00 A61K31/41 A61K31/42 A61K31/425 A61K31/495 C07D413/04 C07D417/04 C07D49/36 C07D85/52 C07D91/60 C07D99/02

CPC: A23K20/116 A23K50/30 A01N43/82 C07D233/92 C07D233/94 C07D233/95

European class: 124HB3B1 124HC1B4+B3B1 124HC2B4 124HC2B4+B3B1 124PA2F3 A01N43/82 A23K1/16F A23K1/18M1 C07D233/92 C07D233/94 C07D233/95

US class: 260/306.8 424/250 424/26.7 424/27. 424/27.0 424/270 424/272 514/253.1 514/254.03 514/326 514/363 514/364 544/367 548/137 548/143

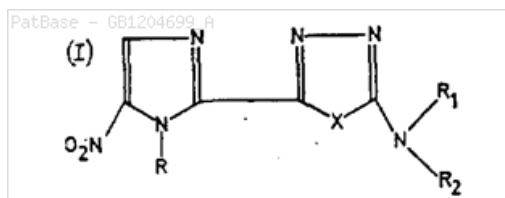
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Abstract:

ABSTRACT OF THE DISCLOSURE Novel substituted nitroimidazolyl-thiadiazoles and oxa-diazoles are described along with methods of preparing and using the same. These compounds have been found useful in controlling the growth of pathogenic microorganisms such as bacteria and protozoa in an animal host. The present invention is a continuation-in-part of our application Ser. No. 604,158, filed Dec. 23, 1966, now abandoned. B



Priority:	19551124	19570711	US19670621770	19670309
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	US19670672427	US19670672437	DE19681792753	19680217
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Assignee(s): AMERICAN CYANAMID COMPANY ; AMERICAN CYNAMID CO ; GRENOBLOISE D ETUDES ET D APPLICATIONS HYD SOC ; AMERICAN CYNAMID COMPANY ; GENERAL ANILINE AND FILM CORP ; ROHM ET HAAS CY ; SOCIETE GRENOBLOISE D ETUDES ET D APPLICATIONS HYDRAULIQUES S O G R E A H ; ROHM AND HAAS COMPANY PHILADELPHIA PENNSYLVANIA VER ST V AM ; ROHM AND HAAS CO PHILADELPHIA PENNSYLVANIE VER ST V AM ; ROHM AND HAAS CO PHILADELPHIA PA (V ST A) ; ROHM HAAS CO ; ROHM AND HAAS CO 19105 PHILADELPHIA PA US ; ROHM AND HAAS CO PHILADELPHIA PA V ST A

Inventor(s):(std): ANDREW BONAR LAW ; ANDREW LAW BONAR ; BONAR LAW ANDREW ; FABIO PAUL FRANK ; FRANK FABIO PAUL ; GROVE WILLOW ; HOFFMAN ARLENE MAY ; LAW A ; LAW A B ; LAW A US ; LAW ANDRE BONAR ; LAW ANDREW B ; GEORGE ALLEN MILLER ; GEORGE MILLER ALLEN ; GROVE W ; LAW ANDREW BONAR ; LAW ANDREW BONAR LEVITTOWN ; LAW BONAR ANDREW ; LEWIS NOAH SHELDON ; LEWIS S ; LEWIS S N ; LEWIS S US ; LEWIS SHELDON N ; LEWIS SHELDON NOAH ; LEWIS SHELDON NOAH WILLOW GROVE ; MAY HOFFMANN ARLENE ; MILLER ALLEN GEORGE ; MILLER G ; MILLER G A ; MILLER G US ; MILLER GEORGE A ; MILLER GEORGE ALLEN ; MILLER GEORGE ALLEN GLENSIDE ; ALLEN MILLER GEORGE ; NOAH LEWIS SHELDON ; PA ; SHELDON NOAH LEWIS ; STEPHEN TOMCUFZIK ANDREW ; TOMCUFZIK ANDREW STEPHEN ; ZICHT ; SHELDON LEWIS NOAH

Inventor(s): SHELDON N LEWIS ; PAUL FRANK FABIO ; ANDREW B LAW ; MILLER GEORGE ALLEN GLENSIDE PA ; MILLER GEORGE ALLEN GLENSIDE PA US ; MILLER GEORGE A US ; LEWIS SHELDON NOAH WILLOW GROVE PA ; LEWIS SHELDON NOAH WILLOW GROVE PA US ; LEWIS SHELDON N US ; LAW ANDREW BONAR LEVITTOWN PA ; LAW ANDREW BONAR LEVITTOWN PA US ; GROVE W US ; LAW ANDREW B US ; GEORGE A MILLER ; ANDREW STEPHEN TOMCUFZIK ; ARLENE MAY HOFFMAN ; BONAR LAW ANDRE

Agent(s): S HOROWITZ AND CO; REINHOLD COHN AND PARTNERS

International class (IPC 8-9): A01C1/00 A01N31/00 A01N43/80 A01N47/12 A01N47/38 A01P1/00 A01P3/00 A01P5/00 A01P7/02 A01P7/04 A45D44/00 A61K8/49 A61Q17/00 B65H54/54 B65H67/04 C01B3/00 C02F1/50 C07D275/00 C07D275/02 C07D275/03 C07D417/04 C08K5/47 C10M135/36 C10M169/00 C11D3/48 G01F3/18 (Advanced/Invention); C07D275/02 (Advanced/Non-invention); A01C1/00 A01N43/72 A01N47/10 A01N47/28 A01P1/00 A01P3/00 A01P5/00 A01P7/02 A01P7/04 A45D44/00 A61K8/30 A61Q17/00 B65H54/40 B65H67/04 C02F1/50 C07D275/00 C07D417/00 C08K5/00 C10M135/00 C10M169/00 C11D3/48 E02B7/20 G01F3/02 G01S17/00 (Core/Invention); A01N C07D (Subclass/Invention)

International class (IPC 1-7): A01C1/06 A01N21/00 A01N43/72 A01N43/78 A01N43/80 A01N5/00 A01N9/00 A01N9/12 A01N9/14 A01N9/22 A61K31/41 A61K31/425 A61L13/00 B32B15/08 B32B17/10 B32B27/30 B65H54/54 B65H67/04 C07D275/00 C07D275/02 C07D417/04 C07D91/00 C07D91/10 C07D91/12 C07D99/10 C09D5/14 C10M1/08 C10M1/38 C11D3/26 C11D7/32 D06M13/38 E02B7/26 E05B67/38 G01S17/08

CPC: A01N43/80 A01N47/38 C02F1/50 C07D275/02 C10M2201/083 C10M2215/042 C10M2219/044 C10M2223/04 C10M2223/042 B65H54/54 B65H67/04 B65H2701/31 G01F3/18 C08K5/47 C11D3/48 A45D44/00 C07D417/04 Y10S514/844 Y10S428/907 C07D275/03 A61K8/49 A61K2800/524 A61Q17/005 C10M2201/02 C10M2219/10 C10M2219/102 C10M2219/104 C10M2219/106 C10N2240/00 C10N2240/22 C10N2240/30 C10N2240/401 C10N2240/50 C10N2240/52 C10N2240/54 C10N2240/56 C10N2240/58 C10N2240/60 C10N2240/66 Y10T428/31649 Y10T428/31667 Y10T428/31699 Y10T428/31844 Y10T428/3192 Y10T428/31928 Y10T428/31935 Y10T428/31938 Y10T428/31964 Y10T428/4935 Y10T428/662 Y10T442/2533 C10M135/36

European class: 124HB23F2 124HC1B4+B3B1 124HC1B7F1+B3D 124HC2B3D 30I3H30 45L8M25 45L9M25 A01N43/80 A01N47/38 A45D44/00 A61K7/40 A61K7/48C14 A61K8/49 A61Q17/00F B65H54/54 B65H67/04 C02F1/50 C07D275/02 C07D275/03 C07D417/04 C08K5/47 C10M135/36 C11D3/48 E02B7/20 G01F3/18 G01S17/08 K61K800/524 L65H701/31 M10M201/02 M10M219/10 M10M219/102 M10M219/104 M10M219/106 M10N230/16 M10N240/00 M10N240/22 M10N240/30 M10N240/401 M10N240/50 M10N240/52 M10N240/54 M10N240/56 M10N240/58 M10N240/66

US class: 106/15.05 106/18.32 106/18.33 162/161 252/47.5 252/545 260/24.7.1 260/30.2 260/30.2A 260/302 260/306.7 424/270 428/411 428/442 428/451 428/463 428/497 428/518 428/520 428/522 428/523 428/530 428/540 428/541 428/704 428/907 442/124 47/57.6 504/100 504/152 504/153 504/156

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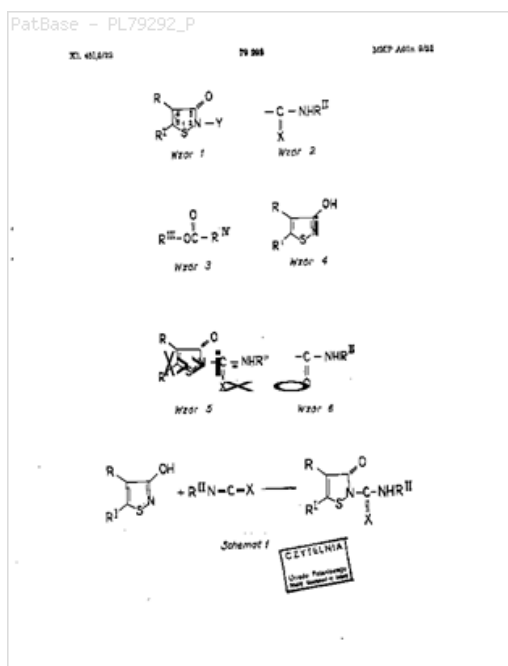
[Classification Explorer](#)

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Forward Citations: WO9842689, WO9831638, WO9825464, WO9723327, WO9420479, WO8400877, WO17148572, WO16034266, WO11133379, WO11078371, WO11034364, WO11034364, WO10088226, WO08093844, WO07112613, WO07001932, WO07001932, WO06037274, WO04065853, WO04065853, WO0228952, WO0192444, WO0059879, US9861699, US9532571, US9526726, US9497969, US9497968, US9491945, US9480258, US9474280, US9452131, US9426994, US9426993, US9408393, US9351976, US9193685, US9034905, US9034867, US9028878, US8969337, US8927735, US8895593, US8796276, US8765752, US8686009, US8629102, US8557766, US8476287, US8389021, US8375755, US8362051, US8309110, US8138135, US8088807, US7943803, US7893273, US7749523, US7699995, US7645746, US7601676, US7442240, US7202287, US7160508, US7147824, US7147824, US6875797, US6787350, US6759423, US6740759, US6682694, US6583291, US6572788, US6527981, US6514458, US6508869, US6506904, US6479701, US6448279, US6432433, US6376680, US6376522, US6375727, US6358469, US6340384, US6248135, US6228382, US6165510, US6153571, US6150315, US6146621, US6077318, US6059980, US6013527, US6004909, US5985141, US5972981, US5939060, US5869436, US5856073, US5849281, US5799696, US5789364, US5783544, US5759786, US5756106, US5756081, US5750402, US5741483, US5736056, US5714137, US5668097, US5663436, US5663134, US5607597, US5594018, US5593670, US5591760, US5591759, US5589448, US5582869, US5578622, US5578563, US5552423, US5536305, US5534165, US5507862, US5489588, US5484934, US5470586, US5468759, US5466382, US5465527, US5444078, US5430046, US5420290, US5384326, US5376695, US5374479, US5357726, US5356952, US5342836, US5322834, US5321141, US5315009, US5315008, US5312827, US5308858, US5304567, US5300424, US5294614, US5292763, US5290512, US5288693, US5278178, US5273987, US5246913, US5242893, US5224980, US5212193, US5210094, US5208272, US5198455, US5190944, US5185357, US5185355, US5160527, US5157045, US5156665, US5153212, US5149706, US5145981, US5142058, US5139773, US5137899, US5132306, US5131939, US5127934, US5125967, US5118699, US5112396, US5110822, US5108500, US5100905, US5073582, US5068344, US5068338, US5061485, US5049677, US5045555, US5041457, US5028620, US5025069, US5008395, US5000618, US4994574, US4990525, US4980176, US4975111, US4964892, US4954338, US4939266, US4920137, US4906651, US4883828, US4868310, US4861896, US4851139, US4841063, US4822511, US4820449, US4783221, US4780317, US4767562, US4760076, US4710184, US4708959, US4708808, US4685932, US4666940, US4654354, US4644021, US4608183, US4552591, US4544752, US4542169, US4540570, US4539071, US4508908, US4499071, US4454146, US4431652, US4428956, US4424134, US4412925, US4396413, US4379137, US4328347, US4325201, US4322475, US4302240, US4295932, US4281136, US4279762, US4265899, US4262127, US4252694, US4243403, US4241214, US4239541, US4230704, US4173643, US4169949, US4169835, US4167575, US4165318, US4150026, US4129448, US4127687, US4105431, US4062946, US4031055, US3980794, US3957808, US3947467, US3896050, US3879559, US3755224, US2017050869, US2012046167, US2011112327, US2011003001, US2010256204, US2010249011, US2009027774, US2008227986, US2007281043, US2007256596, US2007251890, US2007207105, US2007004600, US2006293374, US2006142291, US2006091361, US2006032824, US2006005463, US2005170721, US2005101648, US2005042239, US2004198729, US2004186152, US2004152748, US2003187095, US2003044313, US2002169230, US2002164266, TR22359, KR101017031, JP8016043, JP7179309, JP62270506, JP6102654, JP59078103, JP5732453, JP5221813, JP5002077, JP5002077, JP4789950, JP4305573, JP2866840, JP2106882, JP2012531434, JP2011500735, JP2011078371, JP2009502814, JP2008189714, JP1967763, JP10081608, FR2525205, FR2070695, ES2302658, EP2445343, EP2445343, EP2216394, EP2042334, EP1974946, EP1849362, EP1767090, EP1767090, EP1369461, EP1239007, EP1223171, EP1133274, EP1078031, EP1053680, EP0822449, EP0816349, EP0816349, EP0787430, EP0697409, EP0685160, EP0685159, EP0685158, EP0648757, EP0630891, EP0604978, EP0539091, EP0505064, EP0498347, EP0490565, EP0478194, EP0476943, EP0437354, EP0375265, EP0318194, EP0305065, EP0302451, EP0258999, EP0224971, EP0179697, EP0174086, EP0112610, EP0109738, EP0106563, EP0106562, EP0095907, EP0090584, EP0031705, DE3702546, DE3639635, DE3313778, DE3313689, DE3141198, DE2851023, DE2800739, DE2732145, CN105294594, CN104961705, CN104961705, CN103965136, CN103965136, CN103880773, CN103570642, CN103570642, CN103087002, CN103073517, AU725801, AU675696, AU659379, AU2014265021,

Abstract:

Disclosed herein are certain novel compounds which are most properly designated as 3-isothiazolones. These compounds and compositions containing them exhibit a broad spectrum of biocidal properties and are particularly effective for the control of microorganisms.



Title: Oxadiazole and oxadiazoline derivatives

Priority: GB19670014961 19670331 US19680715947 19680326 US19700059029 19700728
US19720219873 19720121 US19740473064 19740524 US19750556324 19750307

Family:

Publication number	Publication date	Application number	Application date
CH502364 A	19710131	CH19680004667	19680329
DE1770092 A1	19720105	DE19681770092	19680329
DK124826 B	19721127	DK19680001391	19680329
FR1579544 A	19690829		19680329
FR8333 M	19701214	FR19680156899	19680625
GB1228142 A	19710415	GB19670014961	19670331
NL6804496 A	19681001	NL19680004496	19680329
US4012377 A	19770315	US19750556324	19750307

Probable Assignee: GLAXOSMITHKLINE PLC

Assignee(s):(std): GLAXO LAB LTD ; GLAXOSMITHKLINE PLC

Assignee(s): GLAXO LABORATORIES LIMITED ; GLAXO LABORATORIES LTD

Inventor(s):(std): Warburton W ; John Anthony Claisse ; Gregory G ; Gordon Ian Gregory ; Claisse J ; Warburton William Kingston ; Gregory Gordon Ian ; Claisse John Anthony ; Anthony Claisse John ; Ian Gregory Gordon ; Kingston Warburton William

Inventor(s): William Kingston Warburton

International class (IPC 8-9): C07C259/14 C07C45/74 C07C47/24 C07D271/06 C07D271/07 C07D333/24 C07D333/28 (Advanced/Invention); C07C259/00 C07C45/00 C07C47/20 C07D271/00 C07D333/00 (Core/Invention)

International class (IPC 1-7): C07D271/06 C07D85/52

CPC: C07C45/74 C07C47/24 C07C259/14 C07C317/00 C07C323/00 C07D271/06 C07D271/07 C07D333/24 C07D333/28

European class: 124BG17F15B 124HC1B4+A5B C07C259/14 C07C317/00 C07C323/00 C07C45/74 C07C47/24 C07D271/06 C07D271/07 C07D333/24 C07D333/28

US class: 260/240D 548/131 548/132 548/133

[Classification Explorer](#)

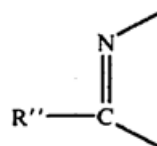
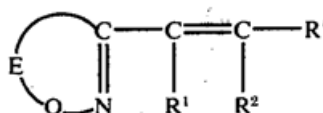
Cited documents: US3637707 A, US3574222 A, US3557099 A, US3471621 A, US3356684 A, US3192103 A, GB1053825 A, WO9301719, WO10054064, WO08137139, WO08097538, US8183276, US7812037, US7459468, US7442689, US7425570, US7230009, US7148233, US7144892, US7132430, US7125889, US7115626, US7115625, US7105673, US6897228, US6890943, US6867215, US6861439, US6780997, US6677356, US6667315, US6605612, US6586414, US6548519, US6489345, US6417204, US6339085, US6043259, US5585493, US5428049, US5428047, US5371231, US2010324029, US2008306108, US2007149485, US2007142270, US2006094761, US2006094749, US2006094748, US2006019929, JP4308585, JP3241074, JP2010526808, FR2735473, FR2409992, EP0590415, EP0590415, EP0492249, EP0251115, AU649086, AU2008248129, AU2008248129, AU2008248129,

Forward Citations:

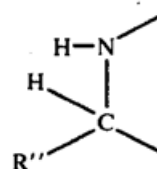
Abstract:

There are described new compounds of formula in which E is selected from the group consisting of residues of formula and in which R'' is selected from the group consisting of amino, vinyl, allyl, ethynyl, C1-C5 alkyl, C1-C5 alkoxy, or C1-C5 alkylthio or a C1-C5 alkyl group substituted by at least one halogen atom; and hydrogen; in which R1 and R2 are each selected from the group consisting of hydrogen, halogen, methyl and ethyl; and R' is selected from substituted phenyl when R'' is other than hydrogen, and phenyl, thienyl and substituted phenyl and thienyl when R'' is hydrogen.

PatBase - US4012377_A



and



Title:	4-OXO-10-HYDROXY-1, 2, 3, 4-TETRAHYDROANTHRACENE-2-(ALPHA-AMINO)ACETATES			
Priority:	US19660568133 19660727			
Family:	Publication number	Publication date	Application number	Application date
	US3409616 A	19681105	US19660568133	19660727
Probable Assignee:	PFIZER AND CO C			
Assignee(s):(std):	PFIZER AND CO C			
Assignee(s):	CHAS PFIZER AND CO ; CHAS PFIZER AND CO INC ; CHASPFIZER AND CO			
Inventor(s):(std):	CONOVER LLOYD H			
International class (IPC 8-9):	C07C233/00 C07C37/055 C07C49/84 C07C51/09 C07C51/31 C07C51/34 C07C51/36 C07C51/363 C07C51/377 C07C57/42 C07C59/52 C07C59/64 C07C59/68 C07C59/90 C07D261/18 C07D261/20 C09B5/24 (Advanced/Invention); C07C233/00 C07C37/00 C07C49/00 C07C51/09 C07C51/16 C07C51/34 C07C51/347 C07C57/00 C07C59/00 C07D261/00 C09B5/00 (Core/Invention)			
International class (IPC 1-7):	C07C103/19 C07C37/055 C07C51/09 C07C51/31 C07C51/34 C07C51/36 C07C51/363 C07C51/377 C07C59/52 C07C59/64 C07C59/90			
CPC:	Y10S435/889 C07C255/00 C07C37/055 C07C49/84 C07C51/09 C07C51/31 C07C51/34 C07C51/36 C07C51/363 C07C51/377 C07C57/42 C07C59/52 C07C59/64 C07C59/68 C07C59/90 C07D261/18 C07D261/20 C09B5/24			
European class:	124BG12B2H4B 124BG8B4H 124CB7M 124CF6201HJ4A 124JB22 124JC3B7 124JD14 124PB2 12Q31A2B 12Q31A2C C07C255/00 C07C37/055 C07C49/84 C07C51/09 C07C51/31 C07C51/34 C07C51/36 C07C51/363 C07C51/377 C07C57/42 C07C59/52 C07C59/64 C07C59/68 C07C59/90 C07D261/18 C07D261/20 C09B5/24			
US class:	250/396.00R 250/396R 260/247.2 435/64 435/889 544/137 544/154 544/155 544/367 544/368 544/380 544/58.1 544/58.7 546/195 546/198 546/204 546/208 548/247 548/248 548/249 548/528 548/529 549/323 552/200 552/203 552/206 552/290 558/427 560/105 560/130 560/139 560/144 560/39 560/42 560/45 560/51 560/52 560/53 560/54 560/55 560/65 560/81 562/444 562/448 562/452 562/455 562/457 562/459 562/465 562/488 562/489			
Classification Explorer				
Cited documents:	US3167579 A,			
Forward Citations:	US5201932, US3549663, US3509184, US3502660, EP0418667,			

Abstract:

ABSTRACT OF THE DISCLOSURE

The total synthesis of 5a,6-anhydrotetracycline-type antibiotics by a multi-step process comprising: (1) the aldol condensation of a 3,4,10-trioxo-1,2,3,4,4a,9,9a,10- octahydroanthracene with (a) an ester of glyoxalic acid, or (b) a 3- and/or 4-substituted 5-formylisoxazole to produce the corresponding 2-carboxymethylidene-(I-A) or 2-[5'-(3'- and/or 4'-substituted isoxazolyl)methylidene]- 3,4,10 - trioxo-1,2,3,4,4a,9,9a,10-octahydroanthracene (IIA) aldol condensation products; (2) Michael reaction of the aldol condensation products with an amine to give the corresponding 3,4,10-trioxo-1,2,3,4,4a,9,9a,10-octahydroanthracenes bearing an a-aminoacetic acid ester (I-B) or an isoxazolyl substituted aminomethyl group (II-B) at the 2-position; (3) selective reduction of the trioxo Michael reaction products to the corresponding 3-hydroxy compounds and thence to the 4,10-dioxo compounds, (4) aromatization of the 4,10-dioxooctahydroanthracenes at the 9,9a- and 10,4a-positions by bromination and dehydrobromination to the corresponding 4,10-dioxo-1,2,3,4-tetrahydroanthracenes; (5) the 4,10-dioxo-1,2,3,4-tetrahydroanthracene-2-(a-amino) acetic acids are converted to mixed anhydrides and then to acyl malonates; (6) the isoxazole ring of the 2-[(5'-isoxazolyl) (amino)methyl]-4, 10-dioxo-1,2,3,4-tetrahydroanthracenes is cleaved to provide the corresponding acyl malononitriles, 4,10-dioxo-1, 2,3,4-tetrahydroanthracene 2 - (a - amino) acetyl a-nitriles; (7) the acyl malonates and acyl malononitriles are cyclized to 12a-deoxytetracyclines which are then hydroxylated to 5a,6-anhydrotetracyclines. The 3,4,10-trioxo-1,2,3,4,4a,9,9a,10 - octahydroanthracenes are prepared from benzoyl halides by (a) FriedelCrafts reaction of a benzoyl halide with a pyrocatechol ether, e.g., a di-(lower) alkyl ether, to produce a 3,4-di- (lower)alkoxybenzophenone; (b) conversion of the benzophenone by partial or complete reduction of the carbonyl group by chemical or catalytic methods to a 3,4- di-(lower)alkoxydiphenylmethanol or 3,4-di-(lower)-alkoxydiphenylmethane; or to a 3,4 - di - (lower) alkoxydiphenylalkane via a Grignard reaction and reduction of the thus-produced alkanol; (c) oxidation of the 3,4-di- (lower)alkoxydiphenylalkane, or the corresponding dihydroxy compound, to a dienedioic acid ester of dienedioic acid; (d) hydrogénation of the dienedioic acid compound to a benzyl adipic acid derivative; (e) cyclization of said compound to a 2-(2-carbalkoxyethyl)-3-tetralone by means of dehydrating or dehydrohalogenating agents; (f) cyclization of the 4-tetralone derivatives by condensation with a dialkyl oxalate to give a 2-carbalkoxy 3,4,10-trioxooctahydroanthracene; and (g) removal of the 2-substituent by decarboxylation. The intermediates and final products are useful as bactericides and/or chelating agents. Cross references to related application This application is a continuation-in-part of my earlier filed application Ser. No. 277,081 filed May 1, 1963, now abandoned.

Title:

ANTIMICROBIC WASHING AGENTS, WASHING ADJUVANTS AND CLEANING AGENTS

Priority:

DE19661668195 19670725 DE1967H063380 19670725 DE1967H064376 19671107
DE1967H064654 19671204 DE1967H064694 19671207 DE19671767684 19680604
DE19681767684 19680604 US19680747453 19680725 US19680774183 19681107
US19700012513 19700203 US19720236338 19720320

Family:

Publication number	Publication date	Application number	Application date
AT289274 B	19710413	AT19680007156	19680724
AT295047 B	19711227	AT19680007157	19680724
BE718398 A	19690122		19680722
BE718399 A	19690122		19680722
CH483789 A	19700115	CH19680011075	19680724
CH485015 A	19700131	CH19680011076	19680724
DE1642062 A1	19710812	DE1967H064376	19671107
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DE1642066 C3	19790613	DE1967H064694	19671207
DE1668195 A1	19710415	DE1967H063380	19670725
DE1668195 B2	19760422	DE1967H063380	19670725
DE1668195 C3	19761202	DE1967H063380	19670725
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DK121460 B	19711018	DK19680003164	19680628
ES356461 A1	19700401	ES19680356461	19680724
FI49025 B	19741202	FI19680002073	19680722
FI49025 C	19750310	FI19680002073	19680722
FR1585446 A	19700123		19680725
FR1587650 A	19700327		19680723
GB1227167 A	19710407		19680724
NL6810408 A	19690128	NL19680010408	19680723
NL6810409 A	19690128	NL19680010409	19680723
SE330879 B	19701207	SE19680009998	19680722
US3592892 A	19710713	US19680747477	19680725
US3592928 A	19710713	US19680747453	19680725
US3592929 A	19710713	US19680747452	19680725
US3639444 A	19720201	US19700012513	19700203
US3668135 A	19720606	US19680774183	19681107
US3761419 A	19730925	US19720236338	19720320

Probable Assignee:

HENKEL AND CIE GMBH

Assignee(s):(std):

HENKEL AND CIE GMBH ; HENKEL AND CIE GMBH 4000 DUESSELDORF ; HENKEL KGAA

Assignee(s):

HENKEL KGAA 4000 DUESSELDORF ; HENKEL AND CIE GMBH DT ; HENKEL AND CIE ; HENKEL AND CIE G M B H

Inventor(s):(std):

BELLINGER H ; BELLINGER H DT ; BELLINGER HORST ; BELLINGER HORST DR ; DIPL CHEM WESSENDORF RICHARD D ; DR WESSENDORF RICHARD DIPL CHE ; GUENTER DR NOESLER HEINZ ; HEINZ GUENTER DR NOESLER ; NOESLER H ; NOESLER H DT ; NOESLER HEINZ GUENTER ; NOESLER HEINZ GUENTER DR ; NOSLER H ; NOSLER HEINZ GUNTER ; WESSENDORF R ; WESSENDORF R DT ; WESSENDORF RICHARD ; WESSENDORF RICHARD DIPL CHEM D ; WESSENDORF RICHARD DIPL CHEM DR ; WESSENDORF RICHARD DR

Inventor(s):

WESSENDORF RICHARD DIPL CHEM DR 4010 HILDEN ; WESSENDORF RICHARD DIPL CHEMDR ; RICHARD WESSENDORF ; NOSLER H DT ; NOESLER HEINZ GUENTER DR 4019 MONHEIM ; NOESLER HEINZ GUENTER DR 8855 MONHEIM ; HEINZ GUENTER NOESLER ; HEINZ GUNTER NOSLER ; HORST BELLINGER ; DR WESSENDORF RICHARD DIPL CHEM

International class (IPC 8-9):

A01N47/20 A61K31/27 A61K8/44 A61Q11/00 A61Q17/00 A61Q19/10 A61Q5/02 C07C271/06 C11D1/00 C11D3/386 C11D3/48 (Advanced/Invention);
A01N47/10 A61K31/21 A61K8/30 A61Q11/00 A61Q17/00 A61Q19/10 A61Q5/02 C07C271/00 C11D1/00 C11D3/38 C11D3/48 (Core/Invention);
A01N (Subclass/Invention)

International class (IPC 1-7):

A01N47/20 A01N9/00 A01N9/20 A61K7/00 A61L13/00 A61L13/04 C07C125/06 C07C125/065 C11D1/00 C11D3/386 C11D3/48

CPC:

A61K2800/59 A61Q5/02 A61Q19/10 Y10S514/936 C11D3/386 A61K8/44 A61Q11/00 A61Q17/005 C11D3/48

European class:

124BG18C2B22 124BG18C2B23A 30I3D 30I3H11B 30I3H14 30I3H14B A61K7/06C6D A61K7/06C6M A61K7/22 A61K7/48C6K A61K7/48C6P A61K8/44 A61Q11/00 A61Q17/00 A61Q17/00F A61Q19/10 A61Q5/02 C11D3/386 C11D3/48 K61K201/20 K61K800/59

US class:

252/10.7 252/106 252/107 260/472 424/204 424/300 510/133 510/219 510/307 510/309 510/318 510/319 510/375 510/378 510/382 510/383 510/386 510/387 510/461 510/469 510/501 510/513 514/102 514/119 514/141 514/479 514/483 514/485 514/936 560/22 560/30 560/31

Classification Explorer

Cited documents:

US3507796 A, US3029273 A, GB661724 A, CA753207 A,

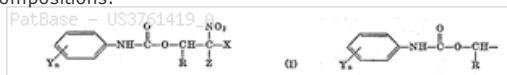
Forward Citations:

WO11128308, WO07012356, US9290437, US8901332, US8742151, US8613910, US6606229, US6045702, US5954967, US5612372, US4871767, US3875071, US3723494, US2008279793, FR2958539, FR2407946, FR2407914,

Abstract:

Antimicrobial washing agents and adjuvants and cleaning compositions comprising (a) 0.2 to 30 percent by weight of a nitroalkyl-N-phenylcarbamate selected from the group consisting of 2-nitropropyl-N-phenylcarbamate, 1-methyl-2-nitropropyl-N-phenylcarbamate, 2-nitrobutyl-N-phenylcarbamate, 2-bromo-2-nitroethyl-N- (3-chlorophenyl)-carbamate, 2-bromo-4-nitrobutyl-

N-(4-nitrophenyl)-carbamate, 2-bromo-2-nitrobutyl-N-(3, 4-dichlorophenyl)- carbamate, 2-bromo-2-nitropropyl-N-phenyl-carbamate and 2-bromo-2-nitrobutyl-N-(4-fluorophenyl)-carbamate (b) at least 5 percent by weight of an alkaline builder having calcium carbonate binding capacity in the Hampshire test of not more than 230 mg per gm of builder and (c) and optionally other common components of washing agents, washing adjuvants or cleaning compositions.



Title: ANTIBACTERIAL COMPOSITION CONTAINING (-) (CIS-1 2-EPOXYPROPYL) PHOSPHORIC ACID

Priority: US19670655757 19670725 US19670679165 19671030 US19680728059 19680509
US19700059761 19700730 US19740507846 19740920

Family:	Publication number	Publication date	Application number	Application date
	AT290011 B	19710510	AT19680007126	19680723
	BE718507 A	19690124		00000000
	CH521440 A	19720415	CH19680010765	19680718
	DE1768965 B1	19711223	DE19681768965	19680718
	DK124336 B	19721009	DK19680003573	19680724
	ES356487 A1	19701016	ES19680356487	19680724
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Probable Assignee: MERCK AND CO INC

Assignee(s):(std): MERCK AND CO INC ; ESPAN PENICILIN AND ANTIBIOTICOS

Assignee(s): MERCK AND CO ; COMPANIA ESPANOLA DE LA PENICILINA Y ANTIBIOTICOS A ; COMPANIA ESPANOLA DE LA PENICILINA Y ANTIBIOTICOSA ; MERCK ET CO ; MERCK CO ; MERCK CD INC ; MERCK AND CO INC US ; MERCK AND CO INC RAHWAY NEW JERSEY VER ST V AM ; MERCK CD ; MERCK SHARP AND DOHME CORP

Inventor(s):(std): DAVID HENDLIN ; DEL VAL S ; DEL VAL SAGRARIO MOCHALES ; EDWARD OLLEY STAPLEY ; EDWARD STAPLEY ; HENDLIN D ; HENDLIN DAVID ; JUSTO MARTINEZ MATA ; MARTINEZ MATA JUSTO ; MATA J ; MOCHALES DEL VAL SAGRARIO ; OLLEY STAPLEY EDWARD ; SAGRARIO MOCHALES DEL VAL ; MATA JUSTO MARTINEZ ; MOCHALES DEL VAL S ; STAPLEY E ; STAPLEY EDWARD ; STAPLEY EDWARD O ; STAPLEY EDWARD OLLEY ; VAL MATA JUSTO MARTINEZ DEL ; VAL SAGRARIO MOCHALES DEL ; VAL SAGRARIO MOCHALESKEL

Inventor(s): STAPLEY E US ; MOCHALES DEL VAL S ES ; SAGRARIO MOCHALESKEL VAL ; MATA J ES ; HENDLIN D US ; EDWARD O STAPLEY

Agent(s): REINHOLD COHN AND PARTNERS

International class (IPC 8-9): C07F9/655 C12P17/02 (Advanced/Invention);
C07F9/00 C12P17/02 (Core/Invention);
A61K (Subclass/Invention)

International class (IPC 1-7): A61K21/00 A61K31/665 C06B16/03 C07F9/00 C07F9/38 C12D9/00 C12D9/14 C12D9/16 C12P17/02

CPC: Y10S435/896 C12P17/02 C07F9/65505

European class: 30H4A4 30H4A5 6H4D C07F9/655J38 C12P17/02

US class: 424/114 424/203 435/123 435/896 514/99 544/374 546/35 549/217

[Classification Explorer](#)

Cited documents: US2895952 A,

Forward Citations: US4482488, US4463092, US3873547, US2004002130, GB2165152, FR2553090, FR2431506, FR2311551, EP0027597, DE3436625, DE2926847,

Abstract:

ABSTRACT OF THE DISCLOSURE (—) (Cis-1,2-epoxypropyl)-phosphonic acid, a water soluble acidic substance, and its salts are active against both gram-positive and gram-negative bacteria. The antibiotic is produced by growing newly-found and hitherto undescribed strains of Streptomyces on suitable fermentation mediums. CROSS REFERENCE TO RELATED APPLICATIONS This is a continuation-in-part of copending applications, Ser. No. 655,757 filed July 25, 1967, now abandoned and Ser. No. 679,165, filed Oct. 30, 1967, now abandoned. B

PatBase - US3639590_A		G./liter
Yeast extract	-----	10
Glucose	-----	10
Agar	-----	20
MgSO ₄ ·7H ₂ O	-----	0.05
Phosphate buffer, ¹ 2 ml.		
Distilled water q.s., balance.		

Title:	DETERGENT COMPOSITIONS CONTAINING PARTICLE DEPOSITION ENHANCING AGENTS																																																																															
Priority:	US19670671117 19670927		US19710123402 19710311																																																																													
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Assignee(s):	PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE CO CINCINNATI OHIO V ST A ; PROCTER AND GAMBLE CO THE ; PROCTER AND GAMBLE CO US ; THE PROCTER AND GAMBLE CO ; THE PROCTER E GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY ; THE PROCTER AND GAMBLE CO CINCINNATI OHIO V ST A																																																																															
Inventor(s):(std):	JOSEPH PARRAN JUN JOHN ; PARRAN JOHN J JR ; PARRAU J ; PARRAN JUN JOHN JOSEPH ; PARRAN J ; JOHN JOSEPH JR PARRAN																																																																															
Inventor(s):	JOHN J PARRAN JR ; PARRAN JUN ; JOSEPH PARRAN JUN ; JOSEPH JR PARRAN JOHN ; PARRAN JUN JOHN JOSEPH CINCINNATI OHIO V ST A ; PARRAN J US																																																																															
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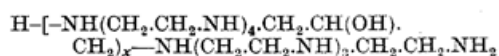
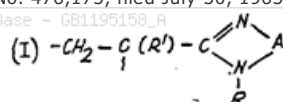
Forward Citations: WO9915062, WO9914297, WO9842815, WO9823258, WO9745525, WO9621426, WO9218100, WO9214440, WO8705321, WO8002154, WO18095813, WO18075861, WO18075855, WO18075850, WO18075847, WO18075846, WO18075845, WO18075844, WO18075841, WO18075838, WO18075836, WO18071353, WO18065190, WO18063781, WO18063774, WO18035277, WO18034878, WO18005262, WO18005261, WO18005258, WO18002100, WO17189946, WO17165615, WO17152020, WO17152018, WO17151848, WO17120151, WO17097817, WO17096156, WO17096153, WO17087028, WO17004282, WO17004281, WO16191518, WO16172412, WO16172410, WO16100466, WO16090207, WO16054451, WO16054450, WO16049455, WO15195738, WO15164680, WO15164140, WO15164139, WO15164138, WO15164137, WO15148309, WO15100122, WO15035150, WO15002812, WO15002811, WO14204662, WO14197427, WO14165788, WO14165722, WO14138141, WO14137775, WO14137770, WO14137769, WO14122046, WO14028572, WO14028569, WO14028568, WO14004847, WO14004800, WO13170004, WO13163492, WO13163491, WO13158381, WO13158380, WO13142654, WO13106367, WO13092698, WO13076047, WO13052820, WO13052771, WO13025893, WO13025891, WO13025886, WO13025857, WO13025772, WO12177757, WO12174096, WO12174091, WO12162331, WO12138710, WO12138696, WO12135651, WO12118798, WO12065925, WO12065924, WO12058557, WO12058526, WO12058216, WO12051374, WO12049026, WO12049025, WO12009660, WO12009525, WO11156584, WO11156566, WO11156558, WO11156551, WO11123739, WO11123736, WO11123734, WO11123732, WO11123727, WO11103173, WO11103146, WO11088089, WO11080101, WO11073139, WO11045191, WO10141683, WO10136965, WO10092102, WO10082177, WO10082176, WO10082175, WO10077653, WO10067327, WO10033745, WO08114226, WO06029066, WO05068594, WO05048963, WO04094583, WO04094583, WO04082648, WO04058027, WO04022686, WO04022685, WO03091371, WO03088940, WO03063811, WO03063811, WO0194516, WO0006456, USRE31126, USRE30874, US9968537, US9920357, US9913797, US9804152, US9662291, US9655821, US9616011, US9561169, US9545364, US9540596, US9540595, US9434993, US9427391, US9381382, US9381148, US9364417, US9295859, US9272164, US9271912, US9242002, US9237995, US9233055, US9198847, US9186642, US9173826, US9162085, US9161899, US9050477, US8986664, US8980876, US8980292, US8980239, US8933131, US8927026, US8895041, US8871717, US8846592, US8846019, US8796252, US8795695, US8765170, US8741357, US8722604, US8697656, US8685908, US8673274, US8653014, US8642529, US8628706, US8563491, US8507649, US8507531, US8491877, US8476211, US8470305, US8466099, US8461091, US8461090, US8444716, US8439981, US8425622, US8415287, US8404648, US8394361, US8383573, US8383572, US8383571, US8367048, US8361516, US8361450, US8361449, US8361448, US8349787, US8349786, US8349341, US8349302, US8349301, US8273333, US8268767, US8268764, US8263538, US8188022, US8124574, US8119168, US8105994, US8093192, US8075637, US8029772, US7981855, US7977288, US7915214, US7888306, US7879780, US7871972, US7858571, US7855173, US7838536, US7838480, US7807612, US7683019, US7674785, US7674759, US7671000, US7659235, US7655607,

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Abstract:

ABSTRACT OF THE DISCLOSURE Detergent compositions containing water-insoluble particulate substances, such as **antimicrobial** agents, and certain cationic polymers which serve to enhance the deposition and retention of such particulate substances on surfaces washed with the detergent composition. CROSS-REFERENCE TO RELATED APPLICATIONS This application is related to the earlier-filed compending application of John J. Parran, Jr., Ser. No. 476,175, filed July 30, 1965, now abandoned. B

PatBase - GB1195158.A



Title: BIS-STILBENE COMPOUNDS

Priority: CH19670013806 19671003 CH19700007001 19671003 CH19700007000 19671003
 CH19680012511 19680820 DE19681794386 19680924 DE19681794386 19680924
 US19680763402 19680927 MX19680108699 19681002 CH19690004791 19690327
 CH19700002660 19700224 DK19700000954 19700226 US19700023056 19700326
 US19730347950 19730404 DK19750003594 19750807

Family:	Publication number	Publication date	Application number	Application date
	AT288306 B	19710225	AT19680009609	19681002
	AT299171 B	19720612	AT19700003617	19681002
	AT302955 B	19721110	AT19700002010	19700304
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	AU196844216 A1	19700409	AU19680044216	19681002
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	AU207013108 A1	19710930	AU19700013108	19700326
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	BR7017790 A0	19730213	BR19700217790	19700325
	CA936157 A1	19731030	CA19700077967	19700320
	CH513785 A	19711015	CH19670013806	19671003
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	CH554821 A	19741015	CH19680012511	19680820
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	CH560236 A	19750327	CH19700002660	19700224
	CH566420 B	19750915	CH19700007000	19671003
	CH587906 A	19770513	CH19750016334	19751217
	CH700070 A4	19750131	CH19700007000	19671003
	CS152347 B2	19731219	CS19700001877	19700320
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	FR1583595 A	19691114		19681020
	FR2044704 A6	19710226	FR19700010578	19700324
	GB1247934 A	19710929	GB19680046376	19680930
	GB1298577 A	19721206	GB19700014984	19700326
	HK53076 A	19760903	HK19760000530	19760826
	HU162953 P	19730528	HU1970CI00970	19700326
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	IL30776 A0	19681127	IL19680030776	19680927
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	JP54000929 B4	19790118	JP19710001337	19710120
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	JP54039411 B4	19791128	JP19700025570	19700327
	MX143265 A	19810413	MX19680131068	19681002
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	NL6814089 A	19690409	NL19680014089	19681002
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	NO132960 C	19760218	NO19700001000	19700318
	PL79354 P	19750630	PL19680129326	19681002
	RO55806 P	19740103	RO19680057857	19681002

RO61999 P	19770415	RO19700062911	19700327
SE367399 B	19740527	SE19680011552	19680828
SE391713 B	19770228	SE19700002588	19700227
SE391713 C	19770609	SE19700002588	19700227
SU391781 D	19730725	SU19681272695	19681001
SU476748 D	19750705	SU19681805029	19681001
US3984399 A	19761005	US19740509768	19740927
YU226368 A	19800315	YU19680002263	19680930
YU35093 B	19800925	YU19680002263	19680930

Probable Assignee: CIBA GEIGY AG

Assignee(s):(std): CIBA GEIGY ; CIBA GEIGY AG ; CIBA LTD

Assignee(s): CIBA S A ; CIBA GEIGY AG BASEL SCHWEIZ ; CIBA S A A BALE SUISSE ; KURT WEBER ; HANS R MEYER ; PETER LIECHTI ; ODEA GEIGY AG ; CIBA GEIGY BASEL SCHWEIZ AG ; CIGA GEIGY AG ; CIBA GEIGY CH AG ; CIBA SA ; CIGA GEIGY A G ; CIBA GEIGY AG CH ; CIBA GEIGY A G ; CIBA GEIGY A G BAZEL ZWITSERLAND ; ADOLF E SIEGRIST ; CIBA AG ; CIBA AKTIENGESSELLSCHAFT

Inventor(s):(std): LIECHTI PETER ; LIECHTI PETER DR ; MEYER A R ; WEBER KURT ; WEBER KURT DR ; WEBER K ; SIEGRIST A E ; MEYER H R ; LIECHTI P ; SIEGRIST A ; RUDOLF DR MEYER HANS ; MEYER HANS RUDOLF ; MEYER RUDOLF HANS DR ; SIEGRIST ADOLF EMIL ; SIEGRIST ADOLF EMIL DR ; MEYER HANS RUDOLF DR ; MEYER H ; HANS RUDOLF DR MEYER ; EMIL DR SIEGRIST ADOLF ; ADOLF EMIL DR SIEGRIST

Inventor(s): ADOLF EMIL SIEGRIST ; KURT WEBER ; HANS RUDOLF MEYER ; WEBER K CH ; SIEGRIST A E CH ; PETER LIECHTI ; MEYER A R CH ; ADOLF E SIEGRIST ; HANS R MEYER ; KURT WEBER PETER LIECHTI HANS RUDOLF MEYER AND ADOLF EMIL SIEGRIST ; LIECHTI P CH

Agent(s): REINHOLD COHN AND PARTNERS

International class (IPC 8-9): C07C1/32 C07C1/34 C07C103/76 C07C15/52 C07C17/26 C07C17/32 C07C25/24 C07C255/34 C07C309/28 C07C309/29 C07C309/32 C07C309/39 C07C309/46 C07C309/73 C07C309/86 C07C309/87 C07C311/15 C07C311/16 C07C311/17 C07C313/04 C07C317/14 C07C43/215 C07C45/44 C07C47/546 C07C47/55 C07C57/42 C07C57/72 C07C63/66 C07D213/34 C07D295/192 C07D295/22 C07D295/26 C07D317/56 C07F9/32 C07F9/40 C07F9/53 C07F9/54 C08K5/00 C08K5/01 C08K5/03 C08K5/04 C08K5/06 C08K5/10 C08K5/16 C08K5/19 C08K5/20 C08K5/41 C08K5/42 C08K5/43 C08L27/06 C08L75/04 C08L83/04 C09B23/14 C09B57/00 C09D7/12 C11D3/42 C11D9/44 D01F1/02 D06L3/12 D21H17/07 D21H17/09 D21H21/30 (Advanced/Invention); C11D3/42 D06L3/12 (Advanced/Non-invention); C07C1/00 C07C15/00 C07C17/00 C07C25/00 C07C255/00 C07C309/00 C07C311/00 C07C313/00 C07C317/00 C07C43/00 C07C45/00 C07C47/52 C07C57/00 C07C63/00 C07D213/00 C07D295/00 C07F9/00 C08K5/00 C08L27/00 C08L75/00 C08L83/00 C09B23/00 C09B57/00 C09D7/12 C11D3/40 D01F1/02 D06L3/00 (Core/Invention); C11D3/40 D06L3/00 (Core/Non-invention); C07C D06L (Subclass/Invention)

International class (IPC 1-7): A41H23/00 B44D3/24 C07C103/20 C07C103/76 C07C121/00 C07C121/52 C07C121/60 C07C121/64 C07C121/66 C07C121/70 C07C143/00 C07C143/24 C07C143/29 C07C143/36 C07C143/38 C07C143/40 C07C143/42 C07C143/52 C07C143/525 C07C143/62 C07C143/68 C07C143/70 C07C143/76 C07C143/78 C07C147/06 C07C15/09 C07C15/12 C07C15/14 C07C15/187 C07C15/24 C07C17/32 C07C25/24 C07C25/28 C07C39/18 C07C39/22 C07C43/20 C07C63/00 C07C63/33 C07C63/34 C07C63/60 C07C63/66 C07C69/76 C07D13/10 C07D213/04 C07D23/00 C07D295/22 C07D31/48 C07F9/02 C08K1/75 C08K5/00 C08K5/41 C08K5/42 C08K5/43 C08L101/00 C08L27/06 C08L75/04 C08L83/04 C09B23/14 C09B27/02 C09B57/00 C11D3/00 C11D3/34 C11D3/42 C11D7/54 C11D9/44 D01F1/02 D06L3/00 D06L3/12 D21H3/80 G04B17/18

CPC: C07D213/34 C08K5/42 C08K5/43 D06L4/60 C07C47/55 C07D295/192 C07C1/324 C07C17/2635 C07C17/32 C07C25/24 C07C45/44 C07C47/546 C07C57/42 C07C57/72 C07C63/66 C07C309/00 C07C309/29 C07C309/39 C07C309/73 C07C309/86 C07C309/87 C07C311/16 C07C311/17 C07C313/04 C07C317/00 C07C317/14 C07D295/26 C07F9/32 C07F9/3241 C07F9/4056 C07F9/5352 C07F9/54 C07F9/5456 C08K5/0041 C09B23/141 C09B23/148

European class: 124AA 124AA17 124B69/76 124B69/76B2B 124BC4C3C 124BG12B2B1 124BG12B2B2B3 124BG12B2B2B3F2 124BG12B2F5B2F 124BG12C2A 124BG12C2A6 124BG12C2D 124BG12C2F 124BG15H2 124BG17F1 124BG17F3B2 124BG17F35 124BG17F36C 124HB6A2K1 12021 C07C1/32B6 C07C17/263D C07C17/26B4 C07C17/32 C07C25/24 C07C309/00 C07C309/29 C07C309/39 C07C309/73 C07C309/86 C07C309/87 C07C311/16 C07C311/17 C07C313/04 C07C317/00 C07C317/14 C07C45/44 C07C47/546 C07C47/55 C07C57/42 C07C57/72 C07C63/66 C07D213/34 C07D295/192 C07D295/26 C07F9/32 C07F9/32A7 C07F9/40A7 C07F9/535B C07F9/54 C07F9/54A7 C08K5/00P4 C08K5/42 C08K5/43 C09B23/14B C09B23/14S D06L3/12

US class: 26/1 260/240CA 510/324 510/484 510/495 544/85 544/87 546/266 546/336 546/338 546/339 546/344 549/435 549/441 549/445 558/162 558/192 558/27 558/386 558/413 558/420 558/46 558/58 562/76 562/83 562/87 987/111 987/118 987/154 987/171

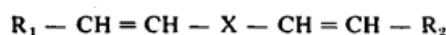
[Classification Explorer](#)

Cited documents: US3843718 A, US3177208 A, JP43071757 A2,

Forward Citations: WO9947495, WO9847969, WO15073292, WO11146602, WO10100028, WO10047335, WO07093513, WO06056465, WO05085189, WO05085189, US9018151, US8740997, US6359056, US6274761, US6168776, US6096919, US6031126, US5969204, US5846382, US5830241, US5646207, US5622749, US5547475, US5482514, US5437818, US5332861, US5145991, US5122557, US4925595, US4690766, US4690765, US4508784, US4468352, US4424170, US4366189, US4339393, US4285885, US4274062, US4263431, US4246403, US4231957, US4216105, US4147648, US4118560, US4097515, US3956395, US2017260687, US2015119600, US2005166789, US2005054550, KR100796185, JP56008350, JP55143940, JP2013528606, JP2009526875, FR2418473, FR2214686, FR2214686, FR2186531, FR2168210, FR2168210, FR2167158, EP3020768, EP1500644, EP0957085, EP0900784, EP0873988, EP0873988, EP0712960, EP0586346, EP0577557, EP0462437, EP0364403, EP0298361, EP0252009, EP0064953, EP0054511, EP0019702, EP0001991, DE2730246, DE2262633, DE2212480, DE2025575, CN102906200, CN102906200, CN102517178, CN102517178,

Abstract:
The present invention provides the new bis-stilbene compounds, which are useful as optical brighteners and correspond to the formula R1 - CH = CH - X - CH = CH - R2 in which X represents a diphenyl residue bound in positions 4 and 4' to the =CH- groups; R1 and R2 independently of each other, each represents a monocyclic benzene residue, a diphenyl, naphthyl or pyridyl residue, and in which at least one of the cyclic systems R1, R2, X contains a possibly functionally modified sulphonic acid group, a sulphone group, a possibly functionally modified carboxylic acid group, a nitrile, hydroxyl, mercapto or methyl group.

PatBase - US3984399_H



Title: PHOSPHONIC ACID DERIVATIVES
Priority: US19670679203 19671030 US19680729466 19680515
Family:

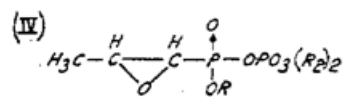
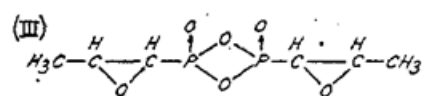
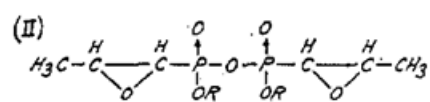
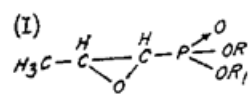
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AT300828 B	19720810	AT19680010554	19681030
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CS152311 P	19731219	CS19680007405	19681030
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DE1805678 B2	19730104	DE19681805678	19681028
DE1805678 C3	19730719	DE19681805678	19681028
ES359539 A1	19701101	ES19680359539	19681025
FI56016 B	19790731	FI19680003066	19681029
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FR1605540 A	19790223	FR19680172023	19681030
GB1239987 A	19710721	GB19680050635	19681024
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IL30918 A1	19730330	IL19680030918	19681021
IT974518 A	19740710	IT19680040662	19681023
LU57183 A	19690516		00000000
MT581 A	19690922	MT19680000581	19681030
NL162079 B	19791115	NL19680014980	19681018
NL162079 C	19800415	NL19680014980	19681018
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OA3883 A	19750814	OA19680053404	19681030
PL79406 P	19750630	PL19680129720	19681024
SE372537 B	19741223	SE19680014618	19681029
SE372537 C	19750410	SE19680014618	19681029
YU251468 A	19790228	YU19680002514	19681028
YU34531 B	19790910	YU19680002514	19681028

Probable Assignee: MERCK AND CO INC
Assignee(s):(std): MERCK AND CO INC
Assignee(s): MERCK AND CO INC RAHWAY N J (V ST A) ; MERCK AND CO INC RAHWAY N J V ST A ; MERCK AND CO INC RAHWAY NEW JERSEY VER ST V AM ; MERCK AND CO INC US ; MERCK CO ; MERCK CO INC ; MERCK SHARP AND DOHME CORP ; MERCK AND CO
Inventor(s):(std): BEATTIE THOMAS R ; BEATTIE THOMAS ROBERT ; BEATTIE THOMAS R ; BURTON GRANT CHRISTENSEN ; CHRISTENSEN B ; CHRISTENSEN B G ; CHRISTENSEN BURTON G ; CHRISTENSEN BURTON GRANT ; GRANT CHRISTENSEN BURTON ; JOSEPH LEANZA WILLIAM ; LEANZA W ; LEANZA W J ; LEANZA WILLIAM J ; LEANZA WILLIAM JOSEPH ; BEATTIE T ; BEATTIE T R ; ROBERT BEATTIE THOMAS ; THOMAS ROBERT BEATTIE ; WILLIAM JOSEPH LEANZA
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Agent(s): REINHOLD COHN AND PARTNERS
International class (IPC 8-9): C07F9/14 C07F9/38 C07F9/655 C07F9/6571 (Advanced/Invention); C07F9/00 (Core/Invention)
International class (IPC 1-7): A61K21/00 A61K31/66 A61K31/665 A61L13/00 C07D1/20 C07D1/22 C07F9/14 C07F9/38 C07F9/40 C07F9/44 C07F9/48
CPC: C07F9/1403 C07F9/3826 C07F9/65505 C07F9/657181
European class: 124AA19B 124AA19D 124AA19D10 124AA19D12 124AA19D18 124AA19D30 124AA19D99 12C2B 30I3H 30I3H29 6P C07F9/14B2 C07F9/38A2 C07F9/655J38 C07F9/6571L4

[Classification Explorer](#)

Forward Citations: WO16029330, FR2507084, FR2372170, EP0067136,

Abstract: 1,239,987. Epoxy phosphonic acid derivatives. MERCK and CO. Inc. 24 Oct., 1968 [30 Oct., 1967; 15 May, 1968], No. 50635/68. Heading C2C. [Also in Division A5] Novel phosphonic acid derivatives of the general formula where R and R₁ are hydrogen, or substituted or unsubstituted hydrocarbyl, acyl or heterocyclic radicals or R and R₁ together form a cyclic ester group, are prepared by epoxidation of the corresponding propenyl derivatives, preferably with a peroxy compound. The invention also comprises the salts of the above compounds which are acidic, and also the compounds of formula. Specified peroxidation reagents are hydrogen peroxide, inorganic peracids, perorganic acids, organic hydroperoxides, peroxy imidates, oxygen in the presence of a catalyst, oxidizing metal salts, alkali metal hypohalites, ozone and alkyl perborates or perphosphates. The sodium salt of cis - 1 - propenylphosphonous acid is prepared by reacting dibutylchlorophosphite with 1 - propynyl magnesium bromide, heating the resulting dibutyl - 1 - propynyl - phosphonite with an ion exchange resin, and subjecting the resulting 1 -propynylphosphonous acid to neutralization with sodium bicarbonate and catalytic hydrogenation. Di - 2¹ - (methyl - 21 - butenoate) - cis - propenyl phosphonate is prepared by reacting methyl - 3 keto - butenoate, sodium hydride and diethyl ether and treating the resulting product with cis-propenylphosphonic dichloride. The bis - p - benzoquinone ester of cis - propenyl - phosphonic acid is prepared by reacting cis - propenylphosphonic dichloride with monocarbobenzoxy hydroquinone, followed by hydrogenation.



Title: A METHOD OF TREATING AN ARTICLE OF A PLASTICS MATERIAL TO RENDER ITS SURFACE ANTI-BACTERIAL

Priority: SE19660017367 19661219

Family:

Publication number	Publication date	Application number	Application date
DE1694483 A1	19710826	DE1967J035241	19671216
DE1694483 B2	19790913	DE1967J035241	19671216
DE1694483 C3	19800612	DE1967J035241	19671216
FR1569631 A	19690606		19671219
GB1212694 A	19701118	GB19670057363	19671218
SE356307 B	19730521	SE19660017367	19661219

Probable Assignee: AMINKEMI AB

Assignee(s):(std): AMINKEMI AB ; INCENTIVE AG ; INCENTIVE AKTIEBOLAG

Assignee(s): AMINKEMI AB STOCKHOLM ; AMINKEMI AB SW

Inventor(s):(std): CHRISTER ERIKSSON JAN ; ERIKSSON JAN CHRISTER ; GILLBERG ELSA GUNILLA ; GUNILLA GILLBERG ELSA ; JOHANSSON ANDERS LENNART ; LAGERGREN HANS RAGNAR ; LENNART JOHANSSON ANDERS ; RAGNAR LAGERGREN HANS ; LAGERGREN H ; JOHANSSON A ; GILLBERG E ; ERIKSSON J

Inventor(s): LAGERGREN HANS RAGNAR STOCKHOLM ; JOHANSSON ANDERS LENNART ENEBYBERG ; LAGERGREN H SW ; JOHANSSON A SW ; GILLBERG ELSA GUNILLA STOCKHOLM ; ERIKSSON JAN CHRISTER BROMMA ; GILLBERG E SW ; ERIKSSON J SW

International class (IPC 8-9): C08K5/00 (Advanced/Invention); C08K5/00 (Core/Invention)

International class (IPC 1-7): A61L13/00 A61L15/00 C08F47/22 C08J1/50 C08J7/00 C08L23/02 D06M13/10

CPC: C08K5/0058

European class: 30I3H C08K5/00P7

[Classification Explorer](#)

Forward Citations: EP0544619,

Abstract:

1,212,694. Rendering thermoplastic materials anti-microbial. INCENTIVE A.B. 18 Dec., 1967 [19 Dec., 1966], No. 57363/67. Heading A5E. A method of treating an article made of a long-chain polymeric thermoplastic material to render the surface of the article anti-microbial (as defined) comprises contacting the surface of the article with an anti-microbial substance, or with an ionic substance to which an anti-microbial compound is at the time or subsequently ionically bound, either directly or indirectly, which substance contains an alkyl group in its molecule, heating at least the surface of the article whilst in contact with said substance to a temperature at which the molecular chains of the thermoplastic material have sufficiently increased mobility and for a time sufficient to allow the alkyl chains of the substance to penetrate the surface of the article, and subsequently cooling the article to reduce the mobility of the molecular chains of the thermoplastic material so as to bind the substance containing the alkyl group to the surface of the article and, if necessary, subsequently binding an anti-microbial substance ionically to the bound ionic alkyl substance. The anti-microbial or ionic substance is suitably in the form of a solution or dispersion. Suitable anti-microbial compounds include the cationic soaps such as benzalkonium chloride and alkyl-trimethyl-ammonium bromide; phenols and resorcinols; aldehydes such as 3- octyl-glutaraldehyde and metal organic compounds such as tributyl-tin acetate. Other compounds are also specified.

Title: PROCESS FOR MANUFACTURE OF AN ENZYME PREPARATION
Priority: GB19680007544 19680215 GB19680057373 19681203 DK19690000804 19690214
 FI19690000482 19690214

Family:	Publication number	Publication date	Application number	Application date
	AT297218 B	19720310	AT19690001184	19690206
	AT300198 B	19720710	AT19710001009	19690206
	BE727506 A	19690701		00000000
	BR6906452 A0	19730419	BR19690206452	19690214
	CA941769 A1	19740212	CA19690041889	19690204
	CH523320 A	19720531	CH19690002267	19690214
	CH538540 A	19730815	CH19720000791	19720214
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	FR2001977 B1	19740830	FR19690003732	19690214
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	SU404195 D	19731026	SU19691309423	19690213
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Probable Assignee: ASTRA AB
Assignee(s):(std): ASTRA AB
Assignee(s): ASTRA SW ; ASTRA ; ASTRA AB SW ; ASTRA AKTIEBOLAGET ; EKSTROM BERTIL A ; SJOBERG BERNDT O H ; NATHORST WESTFELT LARS S ; THELIN KARL H ; DELIN PER S ; ASTRA SOEDERTAELJE SVERIGE AB ; ASTRA SOEDERTAELJE ZWEDEN AB ; AB ASTRA ; AB ASTRA SOEDERTAELJE SCHWEDEN ; AB ASTRA SW ; AKTIEBOLAGET ASTRA ; AKTIEBOLAGET ASTRA SOEDERTAELJE SVERIGE ; AKTIEBOLAGET ASTRA SOEDERTAELJE ZWEDEN
Inventor(s):(std): EKSTROM BERTIL AKE ; EKSTROM BERTIL AKE ; DELIN PER STAFFAN ; NATHORST WESTFELT LARS SOLVE ; SJOBERG BERNDT OLOF HARALD ; SJOBERG BERNDT OLAF HARALD ; SJOBERG BERNDT OLOF HARALD ; NATHORST WESTFELT LARS SOELVE ; THELIN KARL HUGO
Inventor(s): WESTFELT NATHORST LARS SOELVE ; NATHORST WESTFELT LARS SOELVE DIPL ING ; SJOBERG B O H ; SJOBERG B SW ; SJOBERG BERNDT OLAF HARALD ; SJORBERN B ; SOELVE DIPL ING NATHORST WESTFELT LARS ; SOELVE NATHORST WESTFELT DIPL ING LARS ; SOLVE NATHORST WESTFELT LARS ; STAFFAN DELIN PER ; THELIN K ; THELIN K H ; THELIN K SW ; THELIN KARL H ; P S DELIN ; PER STAFFAN DELIN ; PER STAFFAN DELIN SOEDERTAELJE ; SJOBERG B O H ; SJOBERG BERNDT O H ; EKSTROM B ; EKSTROM B A ; EKSTROM B SW ; EKSTROM BERTIL AKE ; EKSTROM BERTIL AKE DR ; EKSTROM BERTIL AKE ; EKSTROM A ; EKSTROM B ; EKSTROM B A ; EKSTROM BERTIL A ;

HARALD SJOBERG BERNDT OLOF ; HARALD SJOEBERG BERNDT OLAF ; HUGO THELIN KARL ; K H THELIN ; KARL HUGO THELIN ; KARL HUGO THELIN SOEDERTAELJE ; L S NATHORST WESTFELT ; LARS SOELVE NATHORST WESTFELT ; LARS SOELVE NATHORST WESTFELT SOEDERTAELJE SVERIGE ; LARS SOLVE NATHORST WESTFELT ; NATHORST WESTFELT K H ; NATHORST WESTFELT L ; NATHORST WESTFELT L S ; NATHORST WESTFELT L SW ; NATHORST WESTFELT LARS S ; AKE DR EKSTROEM BERTIL ; AKE EKSTROEM BERTIL ; AKE EKSTROEM DR BERTIL ; AKE EKSTROM BERTIL ; B A EKSTROM ; B O H SJOBERG ; BERNDT OLAF HARALD SJOBERG ; BERNDT OLOF HARALD SJOBERG ; BERNDT OLOF HARALD SJOEBERG ; BERNDT OLOF HARALD SJOEBERG SOEDERTAELJE ; BERTIL AAKE EKSTROEM ; BERTIL AEKE EKSTROEM ; BERTIL AKE EKSTROEM SOEDERTAELJE ; BERTIL AKE EKSTROM ; DELIN P ; DELIN P S ; DELIN P SW ; DELIN PER S

International class (IPC 8-9): C07D499/00 C07D499/10 C07D499/12 C07D499/18 C07D499/42 C07D499/44 C12N11/10 C12N9/84 C12P37/00 C12P37/04 C12P37/06 (Advanced/Invention); C12R1/19 (Advanced/Non-invention); C07D499/00 C12N11/00 C12N9/78 C12P37/00 (Core/Invention)

International class (IPC 1-7): A61K19/00 A61K21/00 A61K21/00 C07B29/02 C07D499/10 C07D499/12 C07D499/42 C07D499/44 C07D99/00 C07D99/00 C07D99/14 C07D99/16 C07G7/02 C07G7/028 C12D13/00 C12D13/10 C12D9/06 C12N11/10 C12N9/84 C12R1/19

CPC: Y10S435/814 Y10S435/815 Y10S435/849 C12N11/10 C07D499/00 C12N9/84 C12P37/04 C12P37/06

European class: 124HC6P5D7S2C2H9DBL 6H4C2 6H4C2E 6H4C2F C07D499/00 C12N11/10 C12N9/84 C12P37/04 C12P37/06 M07D499/00

US class: 195/66 435/230 435/44 435/814 435/815 435/849

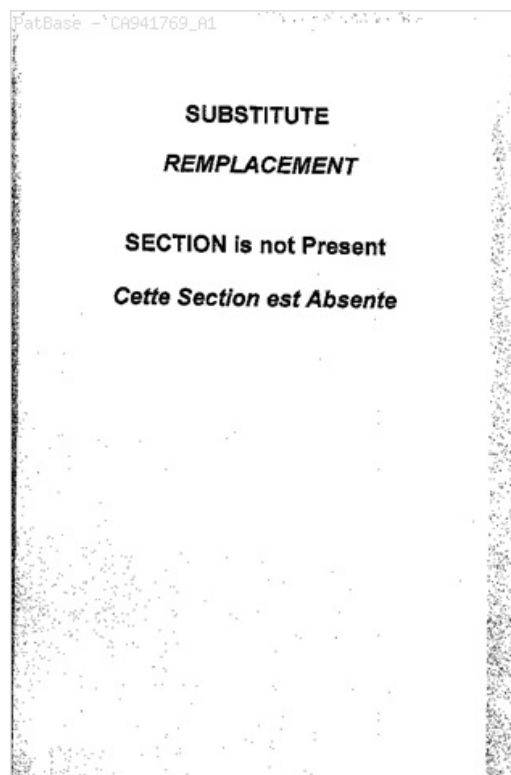
[Classification Explorer](#)

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Forward Citations: WO9913098, US7919294, US6383772, US3883394, US3728224, US2003119042, FR2397422, FR2161021, FR2134530, DE2157970, DE2143062, DE1582430, DE10123048,

Abstract:

An improved process for the large-scale production of penicillin acylase wherein the purified, cell-free enzyme is prepared by fermenting an E. coli cell strain and separating the intracellular enzyme under controlled temperature from the culture fluid by the rapid expulsion of the cell material into water through a peripheral slit from an applied pressure of at least 500 p.s.i., but not exceeding 3,000 p.s.i. The cell material is then stirred in the aqueous solution to dissolve the enzyme which is isolated as a purified acylase capable of transferring the side chain of a natural penicillin, especially benzylpenicillin, to accomplish the formation of 6-aminopenicillanic acid by enzymatic degradation. Upon acylation of the 6-aminopenicillanic acid hypo-allergenic penicillins are obtained.



Title: UNSATURATED ALIPHATIC ESTERS OF ALPHA-CARBOXY ARYL PENICILLINS

Priority: US19680695861 19680105 US19680695885 19680105 US19680695851 19680105
 US19680695869 19680105 US19680695884 19680105 US19680695886 19680105
 US19680695889 19680105 US19680695894 19680105 GB19680032571 19680708
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 CH19690000088 19690106 CH19700005772 19690106 CH19690005772 19690106
 US19690830517 19690604 US19690830516 19690604 US19690830518 19690604
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 US19690873087 19691031 FR19700028207 19700730 US19710170997 19710811

Family:	Publication number	Publication date	Application number	Application date
	AT298468 B	19720510	AT19700003081	19690103
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	FR2082924 A5	19711210	FR19700028207	19700730
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	GB1243207 A	19710818	GB19680032571	19680708
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	MY7200095 A	19721231	MY19720000095	19721230
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	MY7400195 A	19741231	MY19740000195	19741230
	NL148609 B	19760216	NL19690000135	19690103
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US3557094 A	19710119	US19680695886	19680105
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Probable Assignee: PFIZER

Assignee(s):(std): J B WAGGONER ; PFIZER AND CO C ; PFIZER ; BUTLER K

Assignee(s): CHAS PFIZER AND CO ; CHAS PFIZER AND CO INC ; CHAS PFIZER AND COINC ; PFIZER INC ; PFIZER ET CO INC ; CHAS PFIZER CO INC ; PFIZER INC NEW YORK ; CHASPFIZER AND COINC ; PFIZER INC US ; PFIZER INC TE NEW YORK ; PFIZER INC NEW YORK N Y V ST A

Inventor(s):(std): BUTLER K ; BUTLER KENNET ; IRVING MAURICE GOLDMAN ; WATERFORD CONNECTICAT ; KENNETH EUTLER ; GOLDMAN I ; EUTLER KENNETH ; CONNECTICAT WATERFORD ; GOLDMAN IRVING M ; MAURICE GOLDMAN IRVING ; KENNETH BUTLER ; BUTLER KENNETH

Inventor(s): IRVING M GOLDMAN ; GOLDMAN I US ; BUTLER KENNETH OLD LYME CONN V ST A ; PFIZER INC ; K BUTLER ; BUTLER K US

Agent(s): REINHOLD COHN AND PARTNERS

International class (IPC 8-9): C07C55/34 C07C57/34 C07C57/58 C07C59/64 C07C59/84 C07C59/88 C07C59/90 C07D213/55 C07D239/545 C07D239/553 C07D307/54 C07D333/24 C07D403/12 C07D471/14 C07D487/14 C07D499/00 C07D499/32 C07D499/72 C07D513/14 (Advanced/Invention); C07D239/54 (Advanced/Non-invention); C07C55/00 C07C57/00 C07C59/00 C07D213/00 C07D239/00 C07D307/00 C07D333/00 C07D471/00 C07D487/00 C07D499/00 C07D513/00 (Core/Invention); C07C C07D (Subclass/Invention)

International class (IPC 1-7): A61K21/00 A61K27/00 A61K31/43 C07C153/00 C07C49/20 C07C49/22 C07C51/58 C07C55/34 C07C57/34 C07C57/58 C07C59/00 C07C59/64 C07C59/84 C07C59/88 C07C59/90 C07C65/20 C07C69/00 C07C69/66 C07C69/76 C07C79/02 C07C87/06 C07C87/48 C07D213/50 C07D307/38 C07D31/00 C07D333/22 C07D493/00 C07D499/00 C07D499/10 C07D499/12 C07D499/32 C07D499/46 C07D499/72 C07D5/00 C07D51/46 C07D55/10 C07D55/12 C07D57/00 C07D57/00 C07D57/02 C07D57/48 C07D63/00 C07D85/00 C07D91/00 C07D91/00 C07D99/00 C07D99/02 C07D99/16 C07D99/20 C07D99/22 C07G11/00

CPC: C07C57/34 C07D499/00 C07C55/34 C07D213/55 C07D239/545 C07D239/553 C07D307/54 C07D333/24 C07D471/14 C07D487/14 C07D513/14 C07C59/84 C07C59/88 C07C59/90 C07C317/00 C07C57/58 C07C59/64

European class: 124AA99 124B69/76 124BG5B2A1D 124BG5B4 124BG8B4 124CA5L 124CB5L 124HC2A2B1 124HC2A5B 124HC2B6A 124HC2B7B1 12Q21 12Q21B 12Q31A2B C07C317/00 C07C55/34 C07C57/34 C07C57/58 C07C59/64 C07C59/84 C07C59/88 C07C59/90 C07D213/55 C07D239/545 C07D239/553 C07D307/54 C07D333/24 C07D471/14 C07D487/14 C07D499/00 C07D513/14

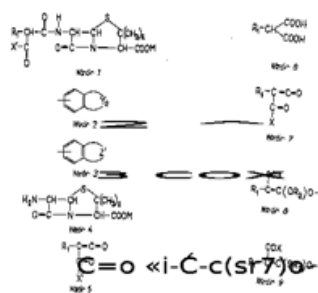
US class: 260/239.1 260/248AS 260/25.6 260/47.1R 540/328 540/329 540/332 540/335 540/337 540/338 540/340 544/183 544/184 544/212 544/234 544/247 544/251 544/9 548/335.1 560/19 560/43 560/51 560/53 560/85 562/459 568/301

[Classification Explorer](#)

Cited documents: FR1522736 A, FR1427686 A,

Forward Citations: US7247630, US6232504, US5279671, US4912104, US4612311, US4569936, US4510144, US4387226, US4228164, US4091026, US3925357, US3907796, US3853849, US3681342, US2003162801, JP61039693, JP51008956, FR2438658, FR2198745, FR2154543, FR2056966, EP1690864, EP0107165, EP0026644, EP0024347, DE3114477,

Abstract:
 ABSTRACT OF THE DISCLOSURE Arylchloro (and bromo) carbonyl ketenes, arylcarboxy ketene unsaturated aliphatic esters derived therefrom, methods for their preparation and the use of the esters as acylating agents and for the production of alkenyl, alkynyl, 7-phenylallyl, 7-(substituted phenyl) allyl, 7- phenylpropargyl and 7-(substituted phenyl)propargyl esters of a-carboxy arylacetyl derivatives of 6-aminopenicillanic acid and, by hydrolysis, the corresponding acid derivatives, are described. CROSS-REFERENCE TO RELATED APPLICATIONS This application is a continuation-in-part of my copending application Ser. No. 695,885 filed Jan. 5, 1968 and now abandoned. B



Quercus satyria Griseb. (L. arbutifolia) 000
Cena 10 zł

Title: PERFLUOROALKANESULFONAMIDES N-SUBSTITUTED BY A PLURALITY OF CARBOCYCLES

Priority: US19660588338 19661021 US19680719741 19680408 US19690832824 19690612
 US19690832829 19690612 US19690837899 19690630 US19690837932 19690630
 US19690837900 19690630 US19700045413 19700611 US19700100404 19701221
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 US19720256377 19720524 US19730352596 19730419 US19740437500 19740128
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 US19750632572 19751117

Family:	Publication number	Publication date	Application number	Application date
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	GB1198301 A	19700708	GB19670047927	19671020
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	US3558698 A	19710126	US19690837899	19690630
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	US3639474 A	19720201	US19690832829	19690612
	US3642817 A	19720215	US19690837900	19690630
	US3708491 A	19730102	US19710142380	19710511
	US3758490 A	19730911	US19710142379	19710511
	US3758688 A	19730911	US19720256377	19720524
	US3801588 A	19740402	US19710142381	19710511
	US3920444 A	19751118	US19730352596	19730419
	US3920690 A	19751118	US19740437500	19740128
	US3923810 A	19751202	US19740437502	19740128
	US3923811 A	19751202	US19740437499	19740128
	US4076519 A	19780228	US19750618376	19751001
	US4163659 A	19790807	US19780866369	19780103
	USRE29032 E	19761109	US19750632572	19751117
	ZA7003977 A	19710127	ZA19700003977	19700611

Probable Assignee: 3M CO

Assignee(s):(std): RIKER LABORATORIES INC ; MINNESOTA MINING AND MANUFACTURING CO SAINT PAUL ; MINNESOTA MINING AND MANUFACTURING CY 3M CENTER S ; MINNESOTA MINING AND MFG

Assignee(s): MINNESOTA MINING AND MFG CO ; MINNESOTA MINING MANUFACTURING ; MINNESOTA MINING AND MANUFACTURING CY 3M CENTER SAINT PAUL MINNESOTA 55101 E U A ; MINNESOTA MINING AND MANUFACTURING CO SAINT PAUL MINN (V ST A) ; MINNESOTA MINING AND MFG CY ; MINNESOTA MINING AND MANUFACTURING CY 3M CENTER SA ; MINNESOTA MINING AND MANUFACTURING CY ; MINNESOTA MINING AND MANUFACTURING COMPANY ; PBI GORDON CORP ; RIKER LABOR INC US ; MINNESOTA MINING AND MFG CO US ; MINNESOTA MINING MFG CO ; 3M CO ; DONALD C KVAM ; JERRY E ROBERTSON ; JOSEPH K HARRINGTON ; MINNESOTA MINING ; MINNESOTA MINING AND MANUF CO US ; MINNESOTA MINING AND MANUFACTURING ; MINNESOTA MINING AND MANUFACTURING CO

Inventor(s):(std): HARRINGTON J ; HARRINGTON J K ; HARRINGTON JOSEPH K ; HARRINGTON JOSEPH KENNETH ; HEIGHTS V ; KVAM D ; KVAM D C ; KVAM DONALD C ; KVAM DONALD CHARLES ; KVAM DONALD O ; MENDEL A ; MENDEL ARTHUR ; ROBERTSON J ; ROBERTSON J E ; ROBERTSON JERRY E ; ST PAUL MINN ; SAINT PAUL MINN ; ROBERTSON JERRY EARL ; K HARRINGTON JOSEPH ; JK HARRINGTON ; JE ROBERTSON ; E ROBERTSON JERRY ; DC KVAM ; C KVAM DONALD ; KVANN D ; JOSEPH KENNETH HARRINGTON ; JERRY E ROBERTSON ; DONALD C KVAM ; ARTHUR MENDEL

Inventor(s): J K HARRINGTON ; J E ROBERTSON ; D C KVAM ; KENNETH HARRINGTON JOSEPH ; DONALD CHARLES KVAM ; HEIGHTS V US ; HARRINGTON J US ; JERRY EARL ROBERTSON ; JOSEPH K HARRINGTON ; ROBERTSON J US ; MENDEL A US ; KVAM D US

Agent(s): REINHOLD COHN AND PARTNERS

International class (IPC 8-9): A01N41/06 A61K31/16 A61K31/18 C07C301/00 C07C303/36 C07C303/38 C07C303/40 C07C311/08 C07C311/09 C07C67/00 C07D209/88 C07D213/76 C07D215/40 C07D231/38 C07D241/42 C07D249/00 C07D249/14 C07D277/22 C07D277/38 C07D277/40 C07D277/52 C07D277/82 C07D471/04 C07D487/04 C08G65/26 (Advanced/Invention); A61K31/16 A61K31/18 C07C301/00 C07C303/00 C07C311/00 C07C67/00 C07D209/00 C07D241/00

C07D249/00 C07D277/00 C07D471/00 (Core/Invention)

International class
(IPC 1-7):

A01N41/06 A01N5/00 A01N9/00 A01N9/16 A01N9/22 A01N9/28 A61K27/00 A61K31/16 A61K31/18
C07C121/52 C07C133/02 C07C143/00 C07C143/72 C07C143/74 C07C143/78 C07C143/822
C07C147/12 C07C147/14 C07C149/425 C07D209/88 C07D211/00 C07D213/71 C07D213/75
C07D213/76 C07D215/36 C07D215/38 C07D215/40 C07D215/58 C07D227/10 C07D231/38
C07D239/00 C07D241/20 C07D241/42 C07D241/44 C07D249/14 C07D263/56 C07D263/58 C07D27/68
C07D277/00 C07D277/22 C07D277/38 C07D277/52 C07D277/82 C07D471/04 C07D55/06 C07D91/26
C07D91/34 C07D91/46 C08G65/10

CPC:

A61K31/16 C07C311/09 C07D213/76 C07D215/40 C07D231/38 C07D249/06 C07D277/52 C07D277/40
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C07D471/04 C07D209/88 C07D241/42 C07D249/14

European class:

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C07D249/14 C07D277/40 C07D277/52 C07D277/82 C07D471/04 C07D487/04 C08G65/26P3J
C08G65/26P3P

US class:

260/256.5R 260/270D 260/30.5 260/308R 260/310R 260/315 260/556 260/556F 424/32.4 504/164
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544/225 544/226 544/262 544/281 544/353 544/356 546/10 546/118 546/12 546/121 546/159 546/171
546/212 546/293 546/307 546/312 546/84 548/107 548/161 548/197 548/205 548/222 548/263.8
548/264.8 548/265.2 548/368.1 548/371.7 548/372.1 548/444 552/222 552/234 556/119 556/120
556/139 556/176 556/35 556/37 558/44 558/58 560/12 560/135 562/430 564/36 564/82 564/85 564/86
564/87 564/96 564/97 71/76

[Classification Explorer](#)

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US4013444 A, US3817740 A, US3801588 A, US3793372 A, US3734710 A, US3644354 A, US3637845 A,
US3637729 A, US3629332 A, US3374227 A, US3337555 A, US3321445 A, US3268538 A, US2732398 A,
US2075359 A, GB856452 A, GB738758 A, FR1188591 A,

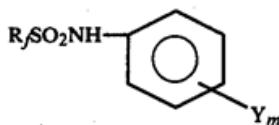
Forward Citations:

WO9837065, WO9619447, WO15060402, WO07116314, WO06078283, WO03022850, WO03010136,
WO02065979, WO0138300, WO0002850, WO0002850, USRE30337, US9844539, US9695169,
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US9000045, US8865735, US8748455, US8741920, US8722702, US8669114, US8273743, US7351703,
US7271196, US7211545, US6809089, US6664400, US6548547, US6528187, US6509434, US6432294,
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US4405359, US4394506, US4380464, US4349378, US4341901, US4321081, US4312663, US4288592,
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US4047926, US4043923, US4013444, US4005141, US3996277, US3981914, US3972926, US3960540,
US3958977, US3957812, US3954437, US3948987, US3929451, US3923810, US3897449, US3894078,
US3725451, US3696122, US3689553, US3689523, US2010197736, US2009298189, US2008027109,
US2007238700, US2004235865, US2004229957, US2003096707, JP58159288, JP57085361,
JP2010508238, JP2007535569, FR2092037, FR2092036, EP2395004, EP1431299, EP0579261,
EP0496595, EP0368429, EP0265540, EP0169101, EP0134294, EP0134294, EP0093590, EP0072253,
EP0048551, EP0048550, EP0038636, EP0013742, EP0011693, EP0010249, EP0010249, DE2551027,
CN104886055, CN104886055, CN104152140, CN104152140, CN103508903, CN103508903, AU633850,
AU2012200933, AU2005325267,

Abstract:

ABSTRACT OF THE DISCLOSURE N-substituted perfluoroalkanesulfonamides in which the sulfonamide nitrogen substituent is a group containing a plurality of carbocycles and selected from cycloalkanoyl-phenyl, naphthyl, anthroquinonyl, fluorenonyl and N-(naphthyl)carbamylphenyl. Also included are salts of these compounds, compositions containing the compounds and processes for their preparation and use. The compounds are active as herbicides and plant growth modifiers. This application is a continuation-in-part of copending application Ser. No. 588,338, filed Oct. 21, 1966, and now abandoned.

PatBase - US4163659_A

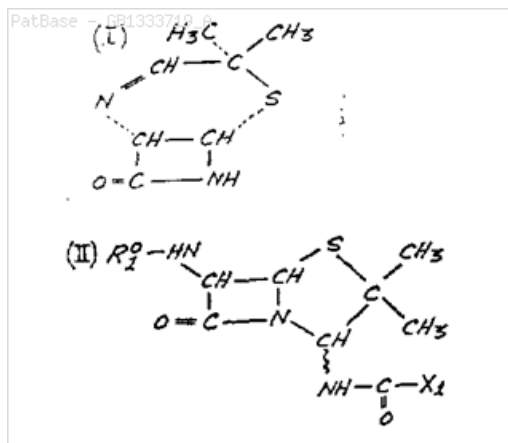


Title: THIADIAZABICYCLOALKANE COMPOUND**Priority:** CH19690010374 19690708 CH19690017670 19691127 CH19690017673 19691127
CH19710018821 19691127 CH19700008473 19700605 CH19700008465 19700605

Family:	Publication number	Publication date	Application number	Application date
	AT301567 B	19720911	AT19700010663	19701126
	AT303054 B	19721110	AT19700010665	19701126
	AU197017199 A1	19700113	AU19700017199	19700706
	AU197022692 A1	19720601	AU19700022692	19701126
	AU197022693 A1	19720601	AU19700022693	19701126
	AU207017199 A1	19700113	AU19700017199	19700706
	AU207022692 A1	19720601	AU19700022692	19701126
	AU207022693 A1	19720601	AU19700022693	19701126
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	BE759439 A	19710526		00000000
	BE759439 A1	19710526		19701126
	BE759440 A	19710526		00000000
	BE759440 A1	19710526		19701126
	CH525907 A	19720731	CH19690017673	19691127
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	CH554895 A	19741015	CH19700008473	19700605
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	DE2057381 A1	19710603	DE19702057381	19701121
	FR2073422 A1	19711001	FR19700042460	19701126
	FR2073422 B1	19740322	FR19700042460	19701126
	FR2073423 A1	19711001	FR19700042461	19701126
	FR2073423 B1	19740830	FR19700042461	19701126
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	GB1333719 A	19731017	GB19700056414	19701127
	HU162955 P	19730528	HU1970CI01053	19701127
	HU163503 P	19730927	HU1970CI01051	19701127
	JP49020798 B4	19740527	JP19700104140	19701127
	JP49025950 B4	19740704	JP19700104139	19701127
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	JP49047756 B4	19741217	JP19720061925	19720622
	JP49047757 B4	19741217	JP19720061926	19720622
	NL7017319 A	19710601	NL19700017319	19701126
	NL7017320 A	19710601	NL19700017320	19701126
	SE377337 B	19750630	SE19700016020	19701126
	SE377337 C	19751016	SE19700016020	19701126
	SE398235 B	19771212	SE19700016019	19701126
	SE398235 C	19780323	SE19700016019	19701126
	US3679676 A	19720725	US19700092231	19701123
	US3755342 A	19730828	US19700092297	19701123

Probable Assignee: CIBA GEIGY AG**Assignee(s):(std):** C CORDESSE ; CIBA GEIGY ; CIBA GEIGY AG ; CIBA GEIGY CORP ; CIBA LTD**Assignee(s):** CIBA GEIGY AG A BALE SUISSE ; CIBA SA ; 4CIBA GEIGY AG ; CIBA GEIGY CORP US ; CIBA GEIGY AG CH ; CIBA LIMITED ; CIBA GEIGY A BALE SUISSE AG**Inventor(s):(std):** FECHTIG B ; FECHTIG BRUNO ; FECHTIG BRUNO DR ; HEUSLER K ; HEUSLER KARL ; HEUSLER KARL DR ; WOODWARD ROBERT BURNS**Inventor(s):** K HEUSLER ; KARL HENSLE AND BRUNO FECHTIG ; KARL HENSLE AND ROBERT BURNS WOODWARD ; KARL HEUSLER ; ROBERT BURNS WOODWARD ; HEUSLER K CH ; FECHTIG B CH ; B FECHTIG ; BRUNO FECHTIG**International class (IPC 8-9):** C07D205/08 C07D205/095 C07D499/00 C07D499/10 C07D501/08 C07D501/10 C07D501/18 C07D513/04 C07F9/535 C07F9/568 C07F9/6561 (Advanced/Invention); C07D499/00 (Advanced/Non-invention); C07D205/00 C07D499/00 C07D501/00 C07D513/00 C07F9/00 (Core/Invention)**International class (IPC 1-7):** A61K21/00 A61K27/00 C07D279/14 C07D501/00 C07D501/08 C07D501/10 C07D513/02 C07D513/04 C07D91/00 C07D91/18 C07D93/00 C07D93/10 C07D93/12 C07D99/02 C07D99/06 C07D99/10 C07D99/16 C07D99/22 C07D99/24 C07F9/28**CPC:** C07D513/04 C07F9/5683 C07F9/65611 C07D205/095 C07D499/00 C07F9/5352**European class:** 124HB41A 124HC5B61A0+B3D0+2 124HC5B61A0+B3D0+2+ 124HC5B61A0+B7K0 124HC5B61A0+B7K0+2 124HC5B61A0+B7K0+2+ 124HC5B61A0+B7K0+2+Y 124HC5B61A1+B7K1 124HC5B61A1+B7K1+2 124HC5B61A1+B7K1+2+Y 124HC6P5D5E2C 124HC6P5D5N 124HC6P5D7S2C2H9C1 124HC6P5D7S2F C07D205/095 C07D499/00 C07D513/04 C07F9/535B C07F9/568E C07F9/6561A**US class:** 260/239A 260/243C 260/243R 540/203 540/217 540/218 540/219 540/230 540/352 540/358 540/360 987/118[Classification Explorer](#)**Cited documents:** US3534029 A, US3522266 A, US3478048 A, GB1155021 A,**Forward Citations:** US6866136, US5075438, US4172832, US4161476, US3953424, US3900487, US3880833, US3872086, JP53064962, JP53037800, FR2166354,**Abstract:**

The 4,4-dimethyl-5-thia-2,7-diazabicyclo[4.2.0] oct-2-en-8-one, which is obtained by splitting the esterified carboxyl group in a 6-amino-3-etherified hydroxycarbonylamino-2,2-dimethyl-penam compound, is useful as intermediate of compounds of the 7-amino-cephalosporanic acid type.



Title:	ANTIBACTERIAL AGENTS																			
Priority:	US19610132287 19610818 US19670627852 19670403	US19620234511 19621031 US19670627871 19670403	US19660558267 19660617																	
Family:	<table><tr><th>Publication number</th><th>Publication date</th><th>Application number</th><th>Application date</th></tr><tr><td>US3502696 A</td><td>19700324</td><td></td><td>19660617</td></tr><tr><td>US3514477 A</td><td>19700526</td><td></td><td>19670403</td></tr><tr><td>US3515731 A</td><td>19700602</td><td>US19670627871</td><td>19670403</td></tr></table>				Publication number	Publication date	Application number	Application date	US3502696 A	19700324		19660617	US3514477 A	19700526		19670403	US3515731 A	19700602	US19670627871	19670403
Publication number	Publication date	Application number	Application date																	
US3502696 A	19700324		19660617																	
US3514477 A	19700526		19670403																	
US3515731 A	19700602	US19670627871	19670403																	
Probable Assignee:	PFIZER AND CO C																			
Assignee(s):(std):	PFIZER AND CO C																			
Assignee(s):	CHAS PFIZER AND CO INC																			
Inventor(s):(std):	CONOVER LLOYD H																			
Inventor(s):	LLOYD H CONOVER																			
International class (IPC 8-9):	C07C233/00 C07C37/055 C07C51/363 C07C59/52 C07C59/64 C07C59/90 (Advanced/Invention)																			
International class (IPC 1-7):	A61K27/00 C07C103/10 C07C103/19 C07C121/66 C07C121/74 C07C37/055 C07C49/76 C07C51/363 C07C59/52 C07C59/64 C07C59/90 C07C69/95																			
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European class:	124BC5E3C 124BG12B2H4B 124BG8B4H 124CB7 124CB7M 124CF6201HJ4A 124JB22 124JC3B7 124PB2 12Q31A2B 12Q31A2C C07C205/56 C07C255/00 C07C37/055 C07C45/46 C07C51/363 C07C59/52 C07C59/64 C07C59/90																			
US class:	250/396.00R 250/396R 260/351 260/465 544/154 544/155 544/380 544/381 544/58.1 546/195 546/204 548/528 548/529 549/323 549/77 549/79 552/203 552/205 552/206 552/289 552/290 558/426 558/427 560/10 560/139 560/142 560/144 560/19 560/21 560/254 560/38 560/39 560/41 560/45 560/47 560/48 560/51 560/53 560/54 560/55 560/56 560/60 560/75 560/8 560/80 560/81 562/405 562/426 562/429 562/452 562/455 562/457 562/459 562/461 562/463 562/465 562/468 562/478 562/480 562/489 562/493 568/333 568/640 568/641 568/644 568/722 568/744 568/745																			
Classification Explorer																				
Cited documents:	US3201462 A, US3192250 A, US3192235 A, US3167579 A, US3153067 A, US3102914 A, US3030377 A,																			
Forward Citations:	USRE40183, USRE40086, US7456158, US7214669, US6946453, US6897204, US6894036, US6638922, US5567692, US5530117, US5529990, US5495030, US5401729, US5386041, US5380888, US4327114, US3943169, US3917672, US3882124, US2009137845, US2007149488, US2007142338, US2007049563, US2007049562, US2007049561, US2007049560, US2005267079, US2005245491, US2004067912, US2004002481, JP4016414, JP2003238493, EP1894569,																			

Abstract:

ABSTRACT OF THE DISCLOSURE A series of 4,10 - dioxo - 1,2,3,4a,9,9a,10-octahydro-anthracenes having at the 2-position a formyl, carboxy, carboalkoxy, carbobenzyloxy, carbothioalkyl, carbothio-benzyl, chloroformyl, cyanoaminomethyl, or cyanohydroxymethyl group which are useful as intermediates for the synthesis of tetracycline-type antibiotics, as bactericides and/or chelating agents; and methods for their preparation. Tetracyclines are produced by a multi-step process beginning with 4,10-dioxo-1,2,3,4,4a,9,9a,10-octahydro-2-anthraldehyde comprising: (1) condensation with acetone cyanohydrin followed by reaction with an amine to give a 2-(cyanoaminomethyl)-4,10-dioxo-1,2,3,4,4a,9,9a,10-octahydroanthracene; (2) hydrolysis of the nitrile to the corresponding 2-(carboxyaminomethyl) 1,2,3,4,4a,9,9a,10-octahydroanthracene; (3) conversion of the acid to a mixed anhydride; (4) acylation of a malonic ester derivative with the mixed anhydride; (5) followed by cyclization of the acyl malonate derivative to a 12a-de-oxytetracycline which is then hydroxylated to a tetracycline. This application is a continuation-in-part of my earlier filed, pending application Ser. No. 234,511, filed Oct. 31, 1962, which, in turn, is a continuation-in-part of application Ser. No. 132,287, filed Aug. 18, 1961, and now abandoned.

Title: SUBSTITUTED 5-NITROIMIDAZOLES

Priority: US19680766984 19681011 US19690833683 19690616 US19690863378 19691002
US19710183243 19710923 US19710202568 19711126 US19730409505 19731025
US19750632941 19751118

Family:	Publication number	Publication date	Application number	Application date
	AR199638 A1	19740923	AR19740199638D	19740101
	AT292692 B	19710910	AT19690009579	19691010
	BG17752 A3	19731225	BG19690013165	19691010
	DE1951259 A1	19700527	DE19691951259	19691010
	FR2020451 A1	19700710	FR19690035003	19691013
	FR2020451 B1	19740111	FR19690035003	19691013
	IL33164 A0	19691231	IL19690033164	19691010
	IT1035021 A	19791020	IT19690040687	19691010
	NL6915451 A	19700414	NL19690015451	19691013
	US3649638 A	19720314	US19690863378	19691002
	US3652555 A	19720328	US19690833683	19690616
	US3790589 A	19740205	US19710202568	19711126
	US3812141 A	19740521	US19710183243	19710923
	US3940411 A	19760224	US19730409505	19731025
	US4026903 A	19770531	US19750632941	19751118

Probable Assignee: AMERICAN CYANAMID CO

Assignee(s):(std): AMERICAN CYANAMID CO

Assignee(s): AMERICAN CYANAMID CO US ; AMERICAN CYANAMID COMPANY ; AMERICAN CYANAMID CY US ; AMERICAN CYANAMID

Inventor(s):(std): ALBRIGHT JAY DONALD ; ASATO G ; ASATO GORO ; BERKELHAMMER G ; BERKELHAMMER GERALD ; GASTROCK W ; GASTROCK WILLIAM HENRY ; SHEPHERD R ; ALBRIGHT J ; STARER IRA ; SHEPHERD ROBERT GORDEN ; SHEPHERD ROBERT GORDON ; PAPAIOANNOU CHRISTOS GEORGE ; HENRY GASTROCK WILLIAM ; GORDON SHEPHERD ROBERT ; GEORGE PAPAIOAMIOU CHRISTOS ; DONALD ALBRIGHT JAY

Inventor(s): CHRISTOS GEORGE PAPAIOANNOU ; IRA STARER ; WILLIAM HENRY GASTROCK ; SHEPHERD R US ; ROBERT GORDEN SHEPHERD ; GORO ASATO ; GERALD BERKELHAMMER ; ALBRIGHT J US ; JAY DONALD ALBRIGHT ; ROBERT GORDON SHEPHERD ; GASTROCK W US ; BERKELHAMMER G US ; ASATO G US

International class (IPC 8-9): C07C13/02 C07D233/92 C07D233/94 C07D233/95 C07D403/06 C07D498/04
F24F11/00 (Advanced/Invention);
C07C13/00 C07D233/00 C07D498/00 F24F11/00 (Core/Invention);
C07D (Subclass/Invention)

International class (IPC 1-7): A61K27/00 A61K31/33 A61K31/415 C07C13/02 C07D233/92 C07D233/94 C07D233/95 C07D403/04 C07D403/06 C07D417/04 C07D49/36 C07D491/04 C07D498/04 C07D498/06 C07D57/00 C07D85/00 C07D85/54 C07D91/00 C07D91/62

CPC: C07D403/06 C07D498/04 Y10S514/869 C07D233/92 C07D233/94 C07D233/95

European class: 124HC1B4+B3B1 124HC1B4A+B3B 124HC1B4A+B3B1 124HC5B7F1+B3B1+2 124PA2F4B3C
C07D233/92 C07D233/94 C07D233/95 C07D403/06 C07D498/04 F24F11/00C

US class: 260/240D 260/30.6.8D 260/30.9 260/308R 260/309 514/869 544/105 546/274.7 548/137 548/143 548/263.2 548/264.8 548/265.6 548/266.2 548/328.1 548/329.1 548/330.1

[Classification Explorer](#)

Cited documents: US3940411 A, US3652555 A, US3649638 A, US3565892 A, US3515728 A, US3341549 A,

Forward Citations: US4565014, US4264502, US4026903, US3940411, US3818029, EP0006463,

Abstract:

ABSTRACT OF THE DISCLOSURE This invention relates to chemical compounds of the class 1 - substituted - 5 - nitro-2-substituted imidazoles and methods for the preparation thereof. These compounds are useful for their anti-microbial activity. This application is a continuation-in-part of application Serial No. 766,984, filed Oct. 11, 1968, now abandoned. SUMMARY OF THE INVENTION

Title: ANTIBIOTICS AND PRODUCTION THEREOF

Priority: JP19680008588 19680206 JP19690008588 19690206 JP19690075845 19690925
 DE19702065297 19700203 DE19702065297 19700203 GB19700005170 19700203
 CH19700001682 19700205

Family:	Publication number	Publication date	Application number	Application date
	AT310942 B	19731025	AT19700001134	19700206
	BE745430 A	19700716		00000000
	BE745430 A1	19700716	BE19700745430	19700203
	BG25523 A3	19781010	BG19700013909	19700206
	BR7016671 A0	19730208	BR19700216671	19700206
	CA919607 A1	19730123	CA19700074097	19700205
	CH563454 A	19750630	CH19700001682	19700205
	CH575466 A	19760514	CH19740013569	19700205
	CS178067 B2	19770831	CS19700000799	19700205
	DE2004686 A1	19700903	DE19702004686	19700203
	DE2004686 B2	19740314	DE19702004686	19700203
	DE2004686 C3	19741024	DE19702004686	19700203
	DE2065297 A1	19730419	DE19702065297	19700203
	DE2065297 B2	19751016	DE19702065297	19700203
	DE2065297 C3	19760526	DE19702065297	19700203
	DK127007 B	19730910	DK19700000567	19700205
	ES376246 A1	19720916	ES19700376246	19700205
	FR2034522 A1	19701211	FR19700004031	19700205
	FR2034522 B1	19740830	FR19700004031	19700205
	GB1303842 A	19730124	GB19700005170	19700203
	GB1303843 A	19730124	GB19700036152	19700203
	IL33732 A0	19700322	IL19700033732	19700119
	IL33732 A1	19730531	IL19700033732	19700119
	NL159715 B	19790315	NL19700001658	19700205
	NL7001658 A	19700810	NL19700001658	19700205
	PL80450 P	19750830	PL19700138608	19700204
	PL87043 P	19760630	PL19700161066	19700204
	SE378843 B	19750915	SE19700001309	19700202
	SE378843 C	19751230	SE19700001309	19700202
	SU420187 D	19740315	SU19701402653	19700206
	US3761588 A	19730925	US19700003809	19700119
	YU27870 A	19780630	YU19700000278	19700205
	YU34146 B	19781231	YU19700000278	19700205
	ZA7000433 A	19710428	ZA19700000433	19700121

Probable Assignee: MEIJI SEIKA KAISHA**Assignee(s):(std):** MEIJI SEIKA KAISHA LTD TOKIO ; MEIJI SEIKA KAISHA

Assignee(s): MEIJI SEIKA KAISHA LT JA ; MEIJI SEIKA KAISHA LTD ; MEIJI SEIKA KAISHA LTD 8 2 CHOME KYOBASHI CHUO KU ; MEIJI SEIKA KAISHA LTD JA ; 8MEIJI SEIKA KAISHA LTD ; EIICHI AKITA ; HIROSHI WATANABE ; MEIJI SEIKA KAISHA LTD 8 2 CHOME KYOBASHI CHUO KU TOKYO JAPON ; NORIO EZAKI ; SHOICHI AMANO ; TARO NIIDA ; TAKASHI TSURUOKA ; SHUNZO FUKATSU ; SHIGEHARU INOUE ; TAKASHI SHOMURA ; MEIJI SEIKA PHARMA CO LTD

Inventor(s):(std): AKITA ; AKITA E ; AKITA EICHI ; AKITA EIICHI ; AKITA EIICHI TOKIO ; AMANO S ; AMANO SHOICHI ; AMANO SHOICHI KAWASAKI ; EIICHI AKITA ; EZAKI ; EZAKI N ; EZAKI NORIO ; FUKATSU ; FUKATSU S ; HIROSHI WATANABE ; INOUE ; INOUE S ; FUKATSU SHUNZO ; FUKATSU SHUNZO TOKIO ; INOUE SHIGEHARU ; INOUE SHIGEHARU YOKOHAMA ; KANAGAWA ; NIIDA ; NIIDA T ; NIEA T ; NORIO EZAKI ; SHAMURA T ; SHIGEHARU INOUE ; SHOICHI AMANO ; SHOMURA ; SHOMURA T ; SHOMURA TAKASHI ; SHUNZO FUKATSU ; TSURUOKA ; TAKASHI SHOMURA ; TAKASHI TSURUOKA ; TARO NIIDA ; TSURUOCKA T ; TSURUOKA T ; TSURUOKA TAKASHI ; TSURUOKA TAKASHI KAWASAKI ; NIIDA TARO ; WATANABE ; WATANABE H ; WATANABE HIROSHI ; YOKOHAMA ; YOKOHAMA KANAGAWA

Inventor(s): WATANABE H JA ; NIIDA TARO YOKOHAMA KANAGAWA ; TSURUOKA TAKASHI KAWASAKI KANAGAWA ; TTSURUOKA ; TSURUOKA T JA ; STURUOKA TAKASHI ; T NIIDA ; T SHOMURA ; T TSURUOKA ; SHOMURA T JA ; S AMANO ; S FUKATSU ; S INOUE ; SFUKATSU ; NIIDA T JA ; N EZAKI ; INOUE SHIGEHARU YOKOHAMA KANAGAWA ; H WATANABE ; INOUE S JA ; FUKATSU S JA ; FUKATSU SHOICHI ; EZAKI N JA ; AMANO SHOICHI KAWASAKI KANAGAWA ; E AKITA ; AMANO S JA ; AKITA EICHI TOKIO ; AKITA E JA

Agent(s): REINHOLD COHN AND PARTNERS

International class (IPC 8-9): A61K36/06 A61P31/04 C07H17/08 C12P1/06 (Advanced/Invention);
 A61K36/06 A61P31/00 C07H17/00 C12P1/06 (Core/Invention);
 A61K (Subclass/Invention)

International class (IPC 1-7): A61K21/00 A61K31/71 A61K35/70 A61K35/74 C07D21/00 C07D9/00 C07G11/00 C07H17/08 C12D9/00 C12D9/14 C12D9/16 C12K C12N1/00 C12P1/06

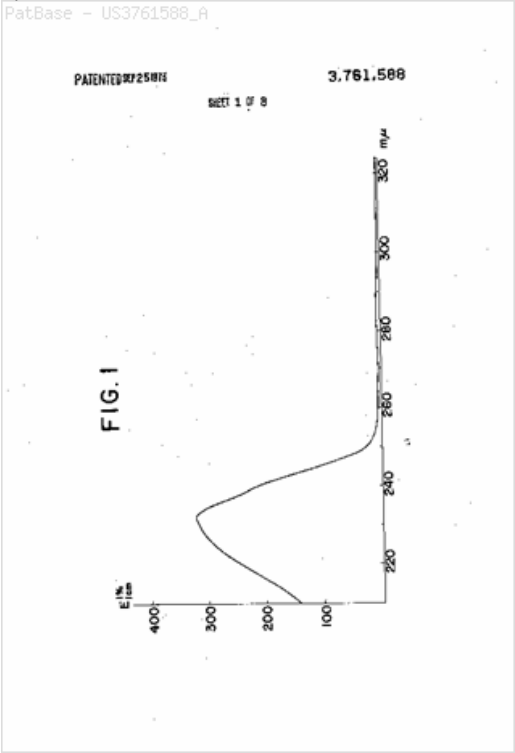
CPC: C07H17/08**European class:** 6H4D5 C07H17/08**US class:** 424/12.1 424/121[Classification Explorer](#)**Cited documents:** US3345262 A, US3118812 A,

Forward Citations: US9848623, US8288135, US8288134, US8288133, US8216812, US8206956, US8187846, US8187845, US8133706, US8129172, US8124385, US8124384, US8030052, US6410281, US2008199923, US2008175953, US2008166780, US2008057551, US2008032381, US2008032366, US2008032365, US2008032364, US2008032363, US2008032362, US2008032360, US2007099280, US2007082384, US2006223146, US2006188969, US2006094089, EP0376114, CN103360445,

Abstract:

New and useful antibiotic substances which are called the SF-837 substance, SF-837-A2 substance, SF-837-A3 substance and SF-837-A4 substance, respectively and which are all valuable for the treatment of infections by Gram-positive pathogenic bacteria

may be isolated from the culture of a new micro-organism Streptomyces mycarofaciens.



Title: CARBOXYEPOXYETHYL-1-PHOSPHONIC ACID AND DERIVATIVES**Priority:** US19690793590 19690123 US19720215917 19720106

Family:	Publication number	Publication date	Application number	Application date
	AU197010383 A1	19710722	AU19700010383	19700116
	AU207010383 A1	19710722	AU19700010383	19700116
	BR6914872 A0	19730308	BR19690214872	19691208
	FR2034480 A1	19701211	FR19700002084	19700121
	NL7000301 A	19700727	NL19700000301	19700109
	US3657282 A	19720418	US19690793590	19690123
	US3822296 A	19740702	US19720215917	19720106

Probable Assignee: MERCK AND CO INC**Assignee(s):(std):** MERCK AND CO INC**Assignee(s):** MERCK AND CO INC US ; MERCK ET CO ; MERCK AND CO**Inventor(s):(std):** BEATTIE THOMAS R ; BEATTIE THOMAS ROBERT ; BEATTIE T ; CHRISTENSEN B ; CHRISTENSEN BURTON G ; CHRISTENSEN BURTON GRANT ; GRAHAM DONALD W ; GRAHAM DONALD WILSON ; GRAHAM D**Inventor(s):** GRAHAM D US ; THOMAS R BEATTIE ; THOMAS ROBERT BEATTIE ; DONALD W GRAHAM ; DONALD WILSON GRAHAM ; CHRISTENSEN B US ; BEATTIE T US ; BURTON G CHRISTENSEN ; BURTON GRANT CHRISTENSEN ; BURTON GRANT CHRISTENSEN THOMAS ROBERT BEATTIE AND DONALD WILSON GRAHAM**International class (IPC 8-9):** C07C29/42 C07C45/29 C07F9/38 C07F9/655 (Advanced/Invention); C07C29/00 C07C45/00 C07F9/00 (Core/Invention)**International class (IPC 1-7):** A61K21/00 A61K27/00 A61L13/00 C07C45/29 C07F9/00 C07F9/38 C07F9/40**CPC:** C07F9/65505 C07C29/42 C07C45/298 C07C323/00**European class:** C07C29/42 C07C323/00 C07C45/29M C07F9/655J38**US class:** 250/396R 260/348A 544/124 544/139 544/146 544/147 544/152 544/225 544/244 544/337 546/21 546/22 548/112 548/412 548/415 549/208 549/217 549/6 558/45 568/403 568/417 568/874[Classification Explorer](#)**Forward Citations:** WO9630378, US7563774, US7312219, US6489476, US5760021, US5712396, US5567841, US5543542, US5470845, US5447922, US4937367, US4427667, US3946034, US3920685, US2009197836, US2009192121, US2008070868, US2007232571, US2005004077, US2004058892, JP8104634, JP2541794, EP0553902,**Abstract:**

ABSTRACT OF THE DISCLOSURE Novel substituted epoxyethylphosphonic acids and derivatives thereof are prepared by oxidation of the corresponding vinyl compounds or by treating a 1,2-disubstituted ethylphosphonic acid compound with a reagent capable of effecting epoxide ring closure. The new substituted epoxyethylphosphonic acid compounds and derivatives such as their salts are antibacterials which inhibit the growth of gram-positive and gram-negative bacteria. B

Title: AZIDOISOTHIAZOLES
Priority: DE19691904241 19690129 CH19700000967 19700123
Family:

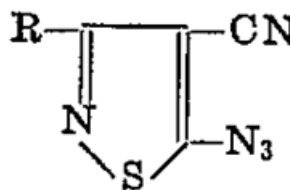
Publication number	Publication date	Application number	Application date
AT294826 B	19711210	AT19700000736	19700127
AT296293 B	19720210	AT19700010728	19700127
BE745155 A	19700729		00000000
BE745155 A1	19700729	BE19700745155	19700129
CH496723 A	19700930	CH19700000967	19700123
CH507281 A	19710515	CH19700012752	19700123
DE1904241 A1	19700806	DE19691904241	19690129
ES376016 A1	19720316	ES19700376016	19700129
FR2034503 A1	19701211	FR19700002763	19700127
FR2034503 B1	19730406	FR19700002763	19700127
GB1238427 A	19710707		19700126
IL33696 A0	19700322	IL19700033696	19700113
IL33696 A1	19721229	IL19700033696	19700113
NL7001280 A	19700731	NL19700001280	19700129
US3657261 A	19720418	US19700006317	19700127

Probable Assignee: MERCK ANLAGEN GMBH
Assignee(s):(std): MERCK AG E ; MERCK ANLAGEN GES MIT BESCHRAE ; MERCK E AG ; MERCK ANLAGEN GMBH ; MERCK PATENT GMBH
Assignee(s): MERCK ANLAGEN GESELLSCHAFT MBH ; MERCK ANLAGEN GESELLSCHAFT MIT BESCHRAENKTER HAFTUNG ; MERCK ANLAGEN GMBH FRANKFURTER STRASSE 250 DARMSTADT ALLEMAGNE ; MERCK ANLAGEN G M B H ; E MERCK AG ; EMERCK AG
Inventor(s):(std): JOOS ALFRED ; JOOS ALFRED DR ; JOOS DIPL CHEM DR ALFRED ; DIPL CHEM JOOS ALFRED DR ; WIRTZ DR WALTER ; WIRTZ WALTER ; WIRTZ WALTER DR
Inventor(s): WALTER WIRTZ ; ALFRED JOOS ; WIRTZ DRWALTER ; DR JOOS ALFRED DIPL CHEM ; JOOS DIPL CHEMDRALFRED
Agent(s): EITAN PEARL LATZER AND COHEN ZEDEK
International class (IPC 8-9): C07D275/03 (Advanced/Invention); C07D275/02 (Advanced/Non-invention); C07D275/00 (Core/Invention)
International class (IPC 1-7): A01N43/80 A01N9/00 A01N9/12 A01N9/14 A01N9/22 A61K27/00 A61K31/425 A61L13/00 A61L23/00 C07D275/02 C07D91/00 C07D91/12
CPC: C07D275/03
European class: 124PA2D3 30I3H30 45L8M25 C07D275/03
US class: 260/302S 548/213 548/214
[Classification Explorer](#)
Cited documents: FR1525324 A,
Forward Citations: US8889731, US2009069407, EP0578246,

Abstract:

ABSTRACT OF THE DISCLOSURE Azidoisothiazoles of the formula $R-m-1-CN \setminus h/-n3$ wherein R is halogen or SRI3 SORj or S02Rx in which Rt is alkyl or benzyl or phenethyl unsubstituted or substituted with N02 and/or halogen are insect repellents and also have antibacterial and antimycotic activity. B

PatBase - US3657261_A



Title: NOVEL N-(3,5-DIHALOPHENYL)-IMIDE COMPOUNDS

Priority: JP19690021529 19690319 JP19690025795 19690402 JP19690028585 19690411
 JP19690030455 19690419 JP19690035919 19690509 JP19690041504 19690527
 JP19690041874 19690528 US19700017339 19700306 GB19700012614 19700316
 US19730322169 19730109 US19750571104 19750424

Family:	Publication number	Publication date	Application number	Application date
	BR7017526 A0	19730412	BR19700217526	19700317
	CA960219 A1	19741231	CA19700077130	19700311
	CH535013 A	19730331	CH19700004165	19700319
	CS186754 B2	19781229	CS19700001783	19700318
	DE2012656 A1	19710930	DE19702012656	19700317
	DE2012656 B2	19750507	DE19702012656	19700317
	DE2012656 C3	19751218	DE19702012656	19700317
	ES377610 A1	19730201	ES19700377610	19700317
	FR2035073 A1	19701218	FR19700009714	19700318
	GB1298261 A	19721129	GB19700012614	19700316
	NL165455 B	19801117	NL19740009983	19740724
	NL165455 C	19810415	NL19740009983	19740724
	NL165456 B	19801117	NL19740009984	19740724
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	NL165458 C	19810415	NL19740009986	19740724
	NL7003836 A	19700922	NL19700003836	19700318
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	PL82818 P	19751031	PL19700144986	19700318
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	SU422143 D	19740330	SU19701413337	19700318
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	SU453814 D	19741215	SU19701455113	19700318
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	SU578868 T	19771030	SU19701479671	19700916
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	US3745170 A	19730710	US19700017339	19700306
	US3903090 A	19750902	US19730322169	19730109
	US4009278 A	19770222	US19750571104	19750424
	YU233279 A	19830427	YU19790002332	19790926
	YU305675 A	19830427	YU19750003056	19751203
	YU36927 B	19840831	YU19700000694	19700318
	YU37318 B	19840831	YU19750003056	19751203
	YU37319 B	19840831	YU19790002332	19790926
	YU69470 A	19820618	YU19700000694	19700318

Probable Assignee: SUMITOMO CHEMICAL CO

Assignee(s):(std): AKIBA KEIICHIRO ; AKIBA KEIICHIRO JP ; FUJINAMI AKIRA ; FUJINAMI AKIRA JP ; KAMEDA NOBUYUKI ; KAMEDA NOBUYUKI JP ; SUMITOMO CHEMICAL CO ; Ooba SHIGEHiro JP ; Ooishi TADASHI JP ; Ozaki TOSHIaki JP ; NODERA KATSUJI JP ; SUMITOMO CHEM CO LTD ; Oishi TADASHI ; Ozaki TOSHIaki ; NODERA KATSUJI ; Ooba SHIGEHiro ; SUMITOMO CHEMICAL CY ; SUMITOMO CHEMICAL COMPANY LTD ; YAMAMOTO SIGEO JP ; SUMITOMO CHEMICAL COMPANY LIMITED OSAKA JAPAN ; TANAKA KATSUTOSHI JP ; SUMITOMO KEMIKAL KO LTD FIRMA ; TANAKA KATSUTOSHI ; YAMAMOTO SIGEO ; SUMITOMO KEMIKAL KO LTD FA

Assignee(s): SUMITOMO CHEMICAL CO LTD OSAKA JAPAN ; SUMITOMO CHEMICAL COMPANY LIMITED ; SUMITOMO CHEMICAL CO LTD ; SUMITOMO CHEMICAL CO OSAKA JAPAN LTD ; Ooishi TADASHI ; SUMITOMO CHEM CO LTD JA

Inventor(s):(std): AKIBA KEIICHIRO JP ; AKIRA FUDZINAMI JA ; AKIRA FUJINAMI ; FUJINAMI AKIRA JP ; KAMEDA K ; KATSUDZI NODERA JA ; KATSUJI NODERA ; KATSUTOSHI TANAKA ; KATSUTOSI TANAKA JA ; KEIICHIRO AKIBA ; KEIICHIRO AKIBA JA ; NOBUYUKI KAMEDA ; NOBUYUKI KAMEDA JA ; KAMEDA NOBUYUKI JP ; NODERA KATSUJI JP ; Ooba SHIGEHiro JP ; Ooishi TADASHI JP ; Ozaki TOSHIaki ; SHIGEHiro Ooba ; SIGEO YAMAMOTO ; SIGOKHIRO Ooba JA ; SIGOO YAMAMOTO JA ; TADASHI Ooishi ; TADOSI Ooishi JA ; YAMAMOTO SIGOO ; YAMAMOTO SIGEO ; YAMAMOTO S ; TANAKA KATSUTOSI ; TANAKA KATSUTOSHI ; TANAKA K ; Ozaki TOSIaki ; Ozaki TOSHIaki ; Ozaki T ; Ooishi TADOSI ; Ooishi TADASHI ; Ooishi T ; Ooba SIGOKHIRO ; Ooba SHIGEHiro ; Ooba S ; NODERA KATSUJI ; NODERA KATSUDZI ; NODERA K ; KAMEDA NOBUYUKI ; KAMEDA N ; FUJINAMI AKIRA ; FUJINAMI A ; FUDZINAMI AKIRA ; AKIBA KEIICHIRO ; AKIBA KEIICHIRO ; AKIBA K ; Ozaki TOSHIaki JP ; TANAKA KATSUTOSHI JP ; TOSHIaki Ozaki ; TOSIaki Ozaki JA ; YAMAMOTO SIGEO JP

Inventor(s): YAMAMOTO SIGEO TOYONAKA ; YAMAMOTO S JA ; TANAKA KATSUTOSHI TAKARAZUKA ; Ozaki TOSHIaki TOYONAKA ; TANAKA K JA ; Ooishi TADASHI MINOO ; Ozaki T JA ; Ooba SHIGEHiro TAKARAZUKA ; Ooishi T JA ; NODERA KATSUJI NISHINOMIYA ; Ooba S JA ; KAMEDA NOBUYUKI TAKARAZUKA ; NODERA K JA ; KAMEDA N JA ; AKIBA K JA ; AKIBA KEIICHIRO IKEDA ; FUJINAMI A JA ; FUJINAMI AKIRA ASHIYA

International class (IPC 8-9): A01N37/32 A01P1/00 A01P3/00 C07D207/20 C07D207/40 C07D207/404 C07D207/44 C07D207/452 C07D209/48 C07D209/52 C07D211/88 C07D227/12 C07D295/15 (Advanced/Invention); A01N37/32 A01P1/00 A01P3/00 C07D207/00 C07D209/00 C07D211/00 C07D227/00 C07D295/00 (Core/Invention); A61N C07D (Subclass/Invention)

International class (IPC 1-7): A01N37/32 A01N37/36 A01N37/44 A01N41/10 A01N53/00 A01N53/00 A01N9/00 A01N9/12 A01N9/14 A01N9/22 A61K31/40 A61L13/00 A61N C07C103/88 C07D207/20 C07D207/40 C07D207/416 C07D207/44 C07D209/48 C07D209/52 C07D211/88 C07D227/08 C07D227/08 C07D227/12 C07D227/00 C07D27/02 C07D27/10 C07D29/00 C07D29/10 C07D29/20 C07D39/00 C07D57/00 C07D87/00 C07D87/42

CPC: Y10S514/949 C07D207/408 C07D207/40 C07D207/44 C07D207/452 C07D209/48 C07D209/52 C07D211/88 C07D295/15

European class: 124BG12B 124BG12B1S2C 124BG12B2B4 124BG12B4A 124CA7 124CA7N1B 124CB7Z2 124HB2 124HB2A2D25 124HB6H3A 124HC2B2 124HC2B2A 124HC2B6H3 30I3H13B 30I3H30B 45L8J21 45L8J37 45L8J41 C07D207/40 C07D207/408 C07D207/44 C07D207/452 C07D209/48 C07D209/52 C07D211/88 C07D295/15

US class: 260/281 260/32.6.5S 424/274 424/46 514/421 514/949 544/141 544/152 544/168 546/208 546/219 546/233 548/476 548/513 548/518 548/544 548/545 548/546 548/568

[Classification Explorer](#)

Cited documents: US3660408 A, US3530126 A, US3529062 A, US3166571 A, US3159637 A, US3125583 A, US3098002 A, US2900243 A, FR6447 M,

Forward Citations: WO8802747, WO15036059, WO15036058, WO14095994, WO14056780, WO13189801, WO13030338, WO12127009, WO12084670, WO11026796, WO11006603, WO09040397, WO05104847, WO0069805, USRE31625, US9844220, US9717247, US9445601, US9339037, US9288988, US9253982, US9049867, US9012360, US9006143, US8846738, US8637534, US8575064, US8415274, US8324130, US7956009, US7208510, US7115593, US6787567, US6624183, US6509503, US6306850, US6248884, US5352655, US5223018, US4929272, US4900840, US4661630, US4628049, US4596826, US4595408, US4487777, US4460782, US4332816, US4296116, US4292070, US4267186, US4183857, US4082849, US4080464, US3987057, US3987056, US3984435, US2011166109, US2010273648, US2009306109, US2009018015, US2007259897, US2007161688, US2007060579, US2004266850, US2004248955, US2004102326, US2004029840, US2003229087, US2002173529, JP2003516979, FR2538386, EP3300602, EP2979549, EP2910126, EP2796043, EP2783569, EP2679096, EP2679095, EP2679094, EP2489268, EP2489267, EP2489266, EP2489265, EP2481284, EP2392662, EP2364592, EP2356906, EP2356905, EP2319308, EP2279664, EP2272369, EP2272368, EP2269460, EP2263463, EP2263462, EP2260711, EP2260710, EP2260709, EP2258198, EP2258197, EP2258196, EP2258177, EP2255659, EP2255658, EP2255657, EP2255656, EP2255655, EP2255654, EP2255653, EP2255652, EP2255651, EP2255650, EP2255649, EP2255648, EP2255647, EP2255646, EP2255645, EP2255644, EP2255629, EP2255628, EP2255627, EP2253213, EP2253212, EP2253211, EP2253210, EP2229815, EP2220940, EP2220939, EP2220938, EP2220937, EP2220936, EP2220935, EP2132989, EP1849364, EP1819223, EP0600507, EP0038303, EP0038303, EP0017994, EP0017994, EP0012261, EP0011321, EP0001395, EP0001395, DE3144526, DE2365677, DE102007045920,

Abstract:

1298261 Microbiocides containing N-(dihalophenyl)-imides SUMITOMO CHEMICAL CO Ltd 16 March 1970 [19 March 1969 2 April 1969 11 April 1969 19 April 1969 9 May 1969 27 May 1969 28 May 1969] 12614/70 Heading ASE [Also in Division C2]

Microbiocidal compositions contain compounds of formula: wherein X and X¹ are halogen atoms, A is a group of formula: wherein R 1 is halogen, C 1-4 alkyl, C 1-10 alkylthio, C 1-10 alkenylthio, C 1-4 acylthio, aralkylthio, phenylthio, halo-, methyl- or nitro-phenylthio, di-C 1-6 alkyl-amino, C 4-5 alkyleneimino, morpholino, C 1-10 alkylsulphanyl or aralkylsulphanyl and R 2 is hydrogen, C 1-4 alkyl or halogen, with the provisos that if one of R 1 and R 2 is alkyl the other is alkyl, that R 2 is not halogen if R 1 is other than halogen, and that R 1 is other than C 1-4 alkyl if R 2 is hydrogen, or A is a group of formula: wherein R 3, R 4, R 5 and R 6 are each hydrogen or C 1-4 alkyl, or A is a trimethylene, o-cyclohexylene, o-cyclohexenylene, o-cyclohexadienylene or o-phenylene group. Other listed pesticidal ingredients may be present.

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