

Search history

Search 1: SFT=(anfo and ((waste or residual) w3 oil)) (Results 34)

Search 2: 1 and filter* (Results 19)

Title: OIL SHALE RETORTING PROCESS FOR PRODUCING EXPLOSIVES

Abstract: Raw oil shale is retorted to liberate an effluent product stream. Ammonia is withdrawn from the product stream and reacted to produce ammonium nitrate. Shale oil is separated from the product stream and mixed with 90 percent to 98 percent by weight ammonium nitrate to produce explosives. The shale oil can be whole shale oil or heavy shale oil containing from 0.1 percent to 65 percent by weight oil shale dust. The ammonium nitrate is preferably in the form of explosive grade ammonium nitrate prills. The shale oil is preferably heated before being mixed with the ammonium nitrate to make the shale oil more blendable.

Classifications:

International (IPC 8-9): C06B21/00 C06B31/28

C10G1/02 (Advanced/Invention);

C06B21/00 C06B31/00 C10G1/00 (Core/Invention)

International (IPC 1-7): D03D23/00

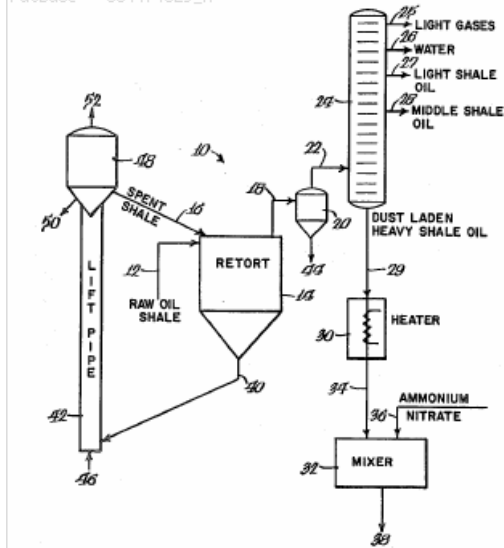
CPC: Y10S149/11 Y10S149/115 C06B31/28 C06B21/0008 C10G1/02

European: C06B21/00B C06B31/28 C10G1/02

US: 149/109.6 149/110 149/115 149/2 149/21 149/41 149/44

149/46

PatBase - US4474629_A

**Family:**

Publication number	Publication date	Application number	Application date
US4474629 A	19841002	US19830545055	19831024

Priority:

US19830545055 19831024

Probable Assignee: CHEVRON RESEARCH CO

Assignee(s): (std): GULF OIL CORP ; STANDARD OIL CO INDIANA

Assignee(s): STANDARD OIL COMPANY INDIANA ; STANDARD OIL CO ; CHEVRON RESEARCH CO ; CHEVRON USA INC

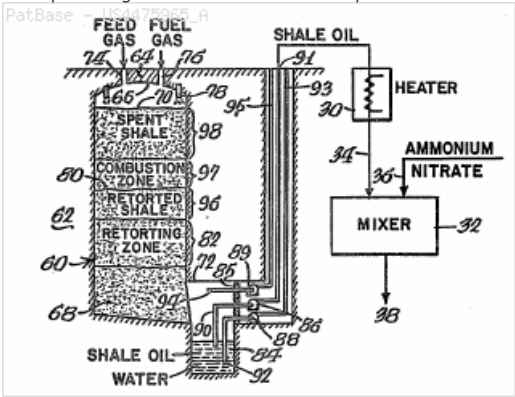
Inventor(s): (std): YORK EARL D ; PORTER DARRELL D

Title: SHALE OIL EXPLOSIVES

Abstract: Ammonium nitrate shale oil explosives are provided which are effective, powerful, inexpensive, and safe. The explosives contain about 2 percent to 10 percent by weight shale oil and about 90 percent to 98 percent by weight ammonium nitrate. The shale oil can be whole shale oil or heavy shale oil containing from 0.1 percent to 65 percent by weight oil shale dust. The ammonium nitrate is preferably in the form of explosive grade ammonium nitrate prills.

Classifications:

International (IPC 8-9): C06B31/28 C06B47/14 (Advanced/Invention); C06B31/00 C06B47/00 (Core/Invention)
International (IPC 1-7): C06B45/02
CPC: Y10S149/112 Y10S149/115 C06B47/14 C06B31/285
European: C06B31/28B C06B47/14
US: 149/112 149/115 149/2 149/21 149/46



Family:

Publication number	Publication date	Application number	Application date
US4475965 A	19841009	US19830545054	19831024

Priority:

US19830545054 19831024

Probable Assignee: CHEVRON RESEARCH CO

Assignee(s): (std): GULF OIL CORP ; STANDARD OIL CO INDIANA

Assignee(s): STANDARD OIL COMPANY INDIANA ; STANDARD OIL CO ; CHEVRON RESEARCH CO ; CHEVRON USA INC

Inventor(s): (std): PORTER DARRELL D ; YORK EARL D

Title: Residue wax coated nitrate salt

Abstract: Solvent is extracted by distillation from a residue filtrate generated in producing aluminium paste by **filtering** a slurry of aluminium particles, at least one fatty acid and a solvent. The distillation produces a residue wax. The wax is used to form a coating composition for coating onto prills of ammonium nitrate to provide at least a part substitute or replacement for conventional fuel oil coatings, especially for use in commercial explosives.

Classifications:

International (IPC 8-9): C05C1/00 C05G3/00 C06B45/32 (Advanced/Invention)

International (IPC 1-7): C05C1/00 C05G3/00 C06B45/32

CPC: C05C1/00 C05G3/0035 C05G3/0088 C06B45/32

European: C05C1/00 C05C1/00+G3/00PH C05G3/00B14 C05G3/00B2H C06B45/32

US: 149/109.6 149/46 149/7

Family:

Publication number	Publication date	Application number	Application date
CA2180617 AA	19970108	CA19962180617	19960705
EP0752400 A1	19970108	EP19960650027	19960708
US5976283 A	19991102	US19970960267	19971029

Priority:

IE19950000517 19950707 CA19962180617 19960705 US19960677614 19960708
US19970960267 19971029

Probable Assignee: CANBRO INC

Assignee(s): (std): CANBRO INC

Assignee(s): RAMSEY KENNETH CLIVE ; WHITE BARTON

Inventor(s): (std): RAMSEY KENNETH CLIVE ; WHITE BARTON

Agent(s): MOFFAT AND CO

Designated states: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Title: Ortho-anthranilamide derivatives as anti-coagulants

Abstract: This invention is directed to compounds of formula (III): wherein B, C, D, E, R¹, R² and R³ are disclosed herein. These compounds are disclosed as being useful as anti-coagulants.

Classifications:

International (IPC 8-9): A61K31/4025 A61K31/415 A61K31/4178 A61K31/43 A61K31/435 A61K31/4433 A61K31/4436 A61K31/4439 A61K31/4535 A61K31/4545 A61K31/495 A61K31/496 A61K31/506 A61K31/52 A61K31/522 A61K31/5377 A61P43/00 A61P7/02 C07D333/38 C07D333/40 C07D333/70 C07D401/04 C07D409/06 C07D409/12 C07D409/14 C07D413/14 C07D417/14 C07D473/06 C07D473/34 (Advanced/Invention);

A61K31/4025 A61K31/415 A61K31/435 A61K31/495 A61K31/496 A61K31/506 A61P43/00 C07D333/38 (Advanced/Non-invention); A61K31/4025 A61K31/415 A61K31/4164 A61K31/43 A61K31/435 A61K31/4427 A61K31/4523 A61K31/495 A61K31/496 A61K31/506 A61K31/519 A61K31/5375 A61P43/00 A61P7/00 C07D333/00 C07D401/00 C07D409/00 C07D413/00 C07D417/00 C07D473/00 (Core/Invention)

International (IPC 1-7): A01N43/06 A61K31/38 A61K31/4025 A61K31/415 A61K31/4178 A61K31/435 A61K31/44 A61K31/4436 A61K31/4439 A61K31/4535 A61K31/4545 A61K31/495 A61K31/496 A61K31/506 A61K31/52 A61K31/5377 A61P43/00 A61P7/02 C07D333/38 C07D333/40 C07D333/52 C07D333/56 C07D333/70 C07D409/00 C07D409/06 C07D409/12 C07D409/14 C07D411/00 C07D413/14 C07D417/14 C07D473/06 C07D473/06 C07D473/34

CPC: C07D401/04 C07D333/38 C07D333/70 C07D409/06 C07D409/12 C07D409/14 C07D413/14 C07D417/14 C07D473/06 C07D473/34

European: C07D333/38 C07D333/70 C07D401/04 C07D409/06 C07D409/12 C07D409/14 C07D413/14 C07D417/14 C07D473/06 C07D473/34

US: 514/336 514/337 514/443 514/444 514/448 546/280.4 546/281.1 549/49 549/57 549/58 549/59 549/72

Family:

Publication number	Publication date	Application number	Application date
AT260103 E	20040315	AT19980963519T	19981127
AU199918759 A1	19990712	AU19990018759	19981127
AU751856 B2	20020829	AU19990018759	19981127
CA2315070 AA	20000616	CA19982315070	19981127
CN1143855 C	20040331	CN19988012417	19981127
CN1282329 A	20010131	CN19988012417	19981127
DE69821985 D1	20040401	DE19986021985	19981127
DE69821985 T2	20050504	DE19986021985T	19981127
DK1040108 T3	20040524	DK19980963519T	19981127
EP1040108 A1	20001004	EP19980963519	19981127
EP1040108 B1	20040225	EP19980963519	19981127
ES2215337 T3	20041001	ES19980963519T	19981127
HU0101172 AB	20020529	HU20010001172	19981127
HU0101172 AC	20021228	HU20010001172	19981127
IL135536 A0	20010520	IL19980135536	19981127
JP2001526283 T2	20011218	JP20000525414T	19981127
JP3811006 B2	20060816	JP20000525414T	19981127
KR100646284 B1	20061117	KR20007006713	19981127
KR20010033276 A	20010425	KR20007006713	19981127
NO20003111 A	20000818	NO20000003111	20000616
NO20003111 A0	20000616	NO20000003111	20000616
NZ503809 A	20020426	NZ19980503809	19981127
PL341044 A1	20010326	PL19980341044	19981127
PT1040108 T	20040630	PT19980963519T	19981127
RU2000119756 A	20030627	RU20000119756	19981127
RU2226529 C2	20040410	RU20000119756	19981127
SK200000943 A5	20010212	SK20000000943	19981127
US6140351 A	20001031	US19980187459	19981105
US6380221 BA	20020430	US20000631450	20000803
US6498185 BA	20021224	US20000631452	20000803
WO9932477 A1	19990701	WO1998EP07650	19981127
WO9932477 B1	19990910	WO1998EP07650	19981127
ZA9811599 A	19990817	ZA19980011599	19981217

Priority:

US19970994284 19971217 US19970994284 19971219 US19980187459 19981105
WO1998EP07650 19981127 US20000631450 20000803 US20000631452 20000803

Probable Assignee: BAYER AG

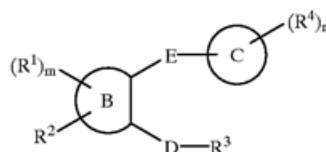
Assignee(s): (std): BERLEX LAB ; SCHERING AKTIENGESELLSCHAFT ; SCHERING AG

Assignee(s): SCHERING BERLIN AG ; SCHERING AKTIENGESELLSCHAFT BERLIN ; ARNAIZ DAMIAN O ; BAYER AG ; BAYER PHARMA AG ; BAYER SCHERING PHARMA AG ; SAKATA STEVEN T ; SACCHI KARNA LYN ; WU SHUNG C ; MORRISSEY MICHAEL M ; SNIDER R MICHAEL ; PHILLIPS GARY B ; SHAW KENNETH J ; ZHAO ZUCHUN ; YE BIN ; BERLEX LABORATORIES INC ; LEE WHEESEONG ; KOCHANNY MONICA J ; LIANG AMY MEI ; KARANJAWALA RUSHAD E ; CHOU YUO LING ; GRIEDEL BRIAN D

Inventor(s): (std): ZHAO SUCHUN ; ZHAO ZUCHUN ; ZUCHUN ZHAO ; SHUNG C WU ; RUSHAD E KARANJAWALA ; RAY MICHAEL SNIDER ; R MICHAEL SNIDER ; PHILLIPS GARY B ; MONICA J KOCHANNY ; MICHAEL M MORRISSEY ; KENNETH J SHAW ; KARNA LYN SACCHI ; GARY B PHILLIPS ; DAMIAN O ARNAIZ ; CHUNG C WU ; BRIAN D GRIEDEL ; BIN YE ; AMY MEI LIANG ; YUO LING CHOU ; VU SHUN K ; SNAJDER MAJKL R ; SHOU KENNET DZH ; SAKCHI KARNA LIN ; SAKATA STIVEN T ; MORRISSEY MAJKL M ; LIAN EHMI MEHJ ; LI VISEN ; KOCHANNY MONICA DZH ; KARANDZHAVALA RASHAD I ; GRIDEL BRAJAN D ; FILLIPS GEHRI B ; EHJRNEJZ DEHMIAN O ; E BIN ; DZHAO ZUCHUN ; CHOU YUO LIN ; ARNAIZ DAMIAN O ; CHOU YUO LING ; CHOU YUO LING ; CHOU YUO LING ; GRIEDEL BRIAN D ; KARANJAWALA RUSHAD E ; KOCHANNY MONICA J ; LEE WHEESEONG ; LIANG AMY MEI ; MORRISSEY MICHAEL M ; PHILLIPS GARY B ; SACCHI KARNA LYN ; SAKATA STEPHEN T ; SAKATA STEVEN T ;

PatBase - US6140351_A

(III)



SHAW KENNETH J ; SNIDER R MICHAEL ; SNIDER RAY MICHAEL ; STEPHEN T SAKATA ; STEVEN T SAKATA ; SUCHUN ZHAO ; WHEESEONG LEE ; WU CHUNG C ; WU SHUNG C ; YE BIN ; SNIDER MICHAEL R

Inventor(s): YUO LING CHUO ; SNIDER R

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; MARKS AND CLERK; NISHIYAMA MASAYA; ISHIDA TAKASHI; TSURUTA JUNICHI; HIGUCHI SOTOJI; FUKUMOTO TSUMORU

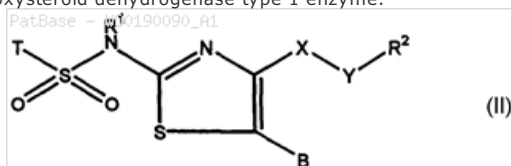
Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HR HU ID IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG UZ VN YU ZW

Title: INHIBITORS OF 11-BETA-HYDROXY STEROID DEHYDROGENASE TYPE 1

Abstract: The present invention relates to compounds with the formula (I) and also to pharmaceutical compositions comprising the compounds, to processes for their preparation, as well as to the use of the compounds in medicine and for the preparation of a medicament which acts on the human 11-beta-hydroxysteroid dehydrogenase type 1 enzyme.

Classifications:

International (IPC 8-9): A61K31/4245 A61K31/425 A61K31/426 A61K31/427 A61K31/428 A61K31/429 A61K31/437 A61K31/4439 A61K31/445 A61K31/454 A61K31/47 A61K31/4709 A61K31/4725 A61K31/4745 A61K31/496 A61K31/497 A61K31/506 A61K31/535 A61K31/5377 A61K31/541 A61K31/553 A61P17/06 A61P19/10 A61P25/00 A61P25/24 A61P25/28 A61P27/06 A61P29/00 A61P3/00 A61P3/04 A61P3/06 A61P3/08 A61P3/10 A61P31/00 A61P31/06 A61P31/08 A61P31/12 A61P43/00 A61P5/48 A61P9/04 C07D217/22 C07D271/12 C07D277/20 C07D277/28 C07D277/38 C07D277/48 C07D277/52 C07D277/56 C07D277/58 C07D277/60 C07D277/82 C07D277/84 C07D409/12 C07D413/02 C07D413/06 C07D413/12 C07D413/14 C07D417/02 C07D417/04 C07D417/06 C07D417/12 C07D417/14 C07D453/04 C07D491/08 C07D498/02 C07D513/04 C07D521/00 (Advanced/Invention); C07D277/52 C07D277/60 (Advanced/Non-invention);



A61K31/4245 A61K31/426 A61K31/427 A61K31/428 A61K31/429 A61K31/4353 A61K31/4427 A61K31/4523 A61K31/47 A61K31/4709 A61K31/472 A61K31/4738 A61K31/496 A61K31/506 A61K31/5375 A61K31/541 A61K31/553 A61P19/00 A61P25/00 A61P27/00 A61P29/00 A61P3/00 A61P31/00 A61P43/00 A61P5/00 A61P9/00 C07D217/00 C07D271/00 C07D277/00 C07D413/00 C07D417/00 C07D491/00 C07D498/00 C07D513/00 C07D521/00 (Core/Invention)

International (IPC 1-7): A61K31/426 A61K31/427 A61K31/428 A61K31/429 A61K31/435 A61K31/437 A61K31/4439 A61K31/4709 A61K31/4725 A61K31/4745 A61K31/496 A61K31/496 A61K31/506 A61K31/535 A61K31/5377 A61K31/541 A61K31/553 A61P19/00 A61P19/10 A61P25/24 A61P25/28 A61P27/06 A61P29/00 A61P3/00 A61P3/04 A61P3/06 A61P3/08 A61P3/10 A61P3/14 A61P31/06 A61P31/12 A61P37/00 A61P43/00 A61P5/46 A61P5/48 A61P9/04 C07D C07D277/28 C07D277/38 C07D277/48 C07D277/52 C07D277/56 C07D277/58 C07D277/60 C07D277/60A61K31/426 C07D277/82 C07D277/84 C07D417/02 C07D417/04 C07D417/12 C07D417/14 C07D498/02 C07D513/04

CPC: C07D231/12 C07D233/56 C07D249/08 C07D277/56 C07D277/84 C07D417/04 C07D417/06 C07D417/12 C07D417/14 C07D491/08 C07D513/04 C07D277/52

European: C07D231/12 C07D233/56 C07D249/08 C07D277/52 C07D277/56 C07D277/84 C07D417/04 C07D417/06 C07D417/12 C07D417/14 C07D491/08 C07D513/04

US: 514/227.8 514/227.800P 514/232.2 514/232.200S 514/232.500P 514/234.2 514/234.200P 514/235.8 514/235.800S 514/236.8 514/236.800S 514/254.02 514/254.020S 514/256 514/256S 514/301 514/301S 514/309 514/309S 514/314 514/314S 514/326 514/326S 514/342 514/364 514/364S 514/365 514/365S 514/366 514/367 514/367S 514/370 514/370S 514/371 544/121 544/121S 544/127 544/127S 544/129 544/129S 544/133 544/133S 544/135 544/135S 544/333 544/333S 544/359 544/367 544/369 544/369S 544/60 544/60S 544/82 544/82S 546/114 546/114S 546/135 546/141 546/141S 546/187 546/209 546/209S 546/270.4 546/270.400S 548/126 548/126S 548/150 548/151 548/159 548/159S 548/161 548/161S 548/184 548/185 548/187 548/190 548/190S 548/193 548/193S 548/194 548/194S 548/197 548/205 548/205S

Family:

Publication number	Publication date	Application number	Application date
AR033534 AA	20031226	AR2001P102421	20010522
AT443055 E	20091015	AT20010937063T	20010522
AT485283 E	20101115	AT20010934782T	20010522
AU2001260931 AA	20011203	AU20010260931	20010522
AU2001260931 BB	20070222	AU20010260931	20010522
AU2001260932 AA	20011203	AU20010260932	20010522
AU2001260932 BB	20070222	AU20010260932	20010522
AU2001262830 AA	20011203	AU20010262830	20010522
AU2001262831 AA	20011203	AU20010262831	20010522
AU2001262831 BB	20061221	AU20010262831	20010522
AU2001262831 BI	20070809	AU20010262831	20010522
AU2001264456 AA	20011203	AU20010264456	20010522
AU2001264456 BB	20070222	AU20010264456	20010522
AU200160931 A1	20011203	AU20010060931	20010522
AU200160931 A5	20011203	AU20010060931	20010522
AU200160932 A1	20011203	AU20010060932	20010522
AU200160932 A5	20011203	AU20010060932	20010522
AU200162831 A1	20011203	AU20010062831	20010522
AU200162831 A5	20011203	AU20010062831	20010522
AU200164456 A1	20011203	AU20010064456	20010522
AU200164456 A5	20011203	AU20010064456	20010522
BRPI0111099 A	20030415	BR2001PI11099	20010522
CA2408142 AA	20021107	CA20012408142	20010522
CA2408142 C	20091020	CA20012408142	20010522
CA2408144 AA	20021107	CA20012408144	20010522
CA2408144 C	20091124	CA20012408144	20010522
CA2408783 AA	20021112	CA20012408783	20010522
CA2409697 AA	20021105	CA20012409697	20010522
CA2409697 C	20100713	CA20012409697	20010522
CL2001001166 A1	20020304	CL20010001166	20010518
CN1188403 C	20050209	CN20018009966	20010522
CN1249039 C	20060405	CN20018011678	20010522
CN1430614 A	20030716	CN20018009979	20010522
CN1430615 A	20030716	CN20018009966	20010522
CN1437588 A	20030820	CN20018011609	20010522
CN1438997 A	20030827	CN20018011678	20010522
DE1283831 T1	20030814	DE20010934781T	20010522
DE60139931 D1	20091029	DE20016039931	20010522
DE60143293 D1	20101202	DE20016043293	20010522
EA005274 B1	20041230	EA20020001271	20010522
EA200201271 A1	20030424	EA20020001271	20010522

EP1283831 A1	20030219	EP20010934781	20010522
EP1283832 A1	20030219	EP20010934782	20010522
EP1283832 B1	20101020	EP20010934782	20010522
EP1283833 A1	20030219	EP20010938885	20010522
EP1283834 A1	20030219	EP20010937063	20010522
EP1283834 B1	20090916	EP20010937063	20010522
ES2333846 T3	20100302	ES20010937063T	20010522
HK1056878 A1	20050916	HK20030109254	20031219
HU0302435 AB	20031229	HU20030002435	20010522
HU0302435 AC	20070502	HU20030002435	20010522
IL152669 A0	20030624	IL20010152669	20010522
IL152670 A0	20030624	IL20010152670	20010522
IL152753 A0	20030624	IL20010152753	20010522
IL152790 A0	20030624	IL20010152790	20010522
JP2003534336 T2	20031118	JP20010586278T	20010522
JP2003534337 T2	20031118	JP20010586279T	20010522
JP2003534338 T2	20031118	JP20010586280T	20010522
JP2003534339 T2	20031118	JP20010586282T	20010522
KR20030011341 A	20030207	KR20027015741	20010522
KR20030016269 A	20030226	KR20027015703	20010522
KR20030016271 A	20030226	KR20027015742	20010522
KR20030016272 A	20030226	KR20027015743	20010522
MXPA02011632 A1	20040505	MX2002PA11632	20010522
NO20025585 A	20021223	NO20020005585	20021121
NO20025585 A0	20021121	NO20020005585	20021121
NO20025586 A	20030121	NO20020005586	20021121
NO20025586 A0	20021121	NO20020005586	20021121
NO20025587 A	20030121	NO20020005587	20021121
NO20025587 A0	20021121	NO20020005587	20021121
NO20025588 A	20021220	NO20020005588	20021121
NO20025588 A0	20021121	NO20020005588	20021121
NO323779 B1	20070702	NO20020005587	20021121
NO323831 B1	20070709	NO20020005585	20021121
NO323832 B1	20070709	NO20020005586	20021121
NZ522506 A	20040827	NZ20010522506	20010522
NZ522507 A	20041126	NZ20010522507	20010522
NZ522538 A	20040924	NZ20010522538	20010522
NZ522591 A	20040924	NZ20010522591	20010522
PE01002002 A1	20020213	PE20010000450	20010518
PL360137 A1	20040906	PL20010360137	20010522
SE200001899 A0	20000522	SE20000001899	20000522
TH54285 A	20021202	TH20011001954	20010521
US2003166689 AA	20030904	US20030296552	20030401
US2003176476 AA	20030918	US20030276954	20030218
US2003199501 AA	20031023	US20030296132	20030318
US2004224996 AA	20041111	US20030296553	20030218
US2006160797 AA	20060720	US20050289634	20051130
US2006287374 AA	20061221	US20060511224	20060829
US2010113435 AA	20100506	US20090619216	20091116
US7030135 BB	20060418	US20010296132	20010522
US7125900 BB	20061024	US20010276954	20010522
US7132436 BB	20061107	US20010296552	20010522
US7618961 BB	20091117	US20010296553	20010522
WO0190090 A1	20011129	WO2001SE01155	20010522
WO0190091 A1	20011129	WO2001SE01156	20010522
WO0190091 C1	20020725	WO2001SE01156	20010522
WO0190092 A1	20011129	WO2001SE01158	20010522
WO0190093 A1	20011129	WO2001SE01154	20010522
WO0190094 A1	20011129	WO2001SE01157	20010522
ZA200209359 A	20040218	ZA20020009359	20021118
ZA200209360 A	20040218	ZA20020009360	20021118
ZA200209362 A	20040218	ZA20020009362	20021118
ZA200209364 A	20040218	ZA20020009364	20021118

Priority:

SE20000001899	20000522	WO2001SE01155	20010522	WO2001SE01154	20010522
WO2001SE01156	20010522	WO2001SE01157	20010522	WO2001SE01158	20010522
US20030276954	20030218	US20030296553	20030218	US20030296132	20030318
US20050289634	20051130	US20060511224	20060829	US20090619216	20091116

Probable Assignee: BIOVITRUM AB

Assignee(s): (std): BARF TJEERD ; BIOVITRUM AB ; EMOND RIKARD ; PHARMACIA AND UPJOHN AB ; VALLGAARDA JERK ; NILSSON MARIANNE ; KURZ GUIDO

Assignee(s): VALLGARDA JERK ; BIOVITRUM AB STOCKHOLM

Inventor(s): (std): BARF T ; BARF TJEERD ; EDMOND RIKARD ; EMOND R ; EMOND RIKARD ; NILSSON M ; NILSSON MARIANNE ; KURZ G ; KURZ GUIDO ; KURZ T BARF R EMOND G ; VALLG RDA JERK ; VALLGAARDA JERK ; VALLGADA J ; VALLGARDA JERK ; VALLGORDA JERK

Inventor(s): M NILSSON ; MARIANNE NILSSON ; R EMOND ; RIKARD EDMOND ; RIKARD EMOND ; T BARF ; T BARF R EMOND G KURZ ; TJEERD BARF ; VALLGARDA JERK ; G KURZ ; GUIDO KURZ ; J VALLGADA ; JERK VALLGAARDA ; JERK VALLGARDA ; JERK VALLGORDA

Agent(s): GRIFFITH HACK ; SMART AND BIGGAR ; HARNECKER ; BUBLAK WOLFGANG ; FOLEY AND LARDNER LLP, SUITE 500 ; FOLEY AND LARDNER LLP SUITE 500 ; FOLEY AND LARDNER LLP, SUITE 500 ; FOLEY AND LARDNER LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK
DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC
LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI
SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

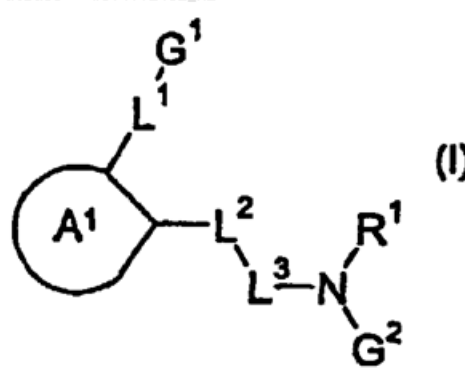
Title: GLUCAGON ANTAGONISTS/INVERSE AGONISTS

Abstract: A novel class of compounds, which act to antagonize the action of the glucagon hormone on the glucagon receptor. Owing to their antagonizing effect of the glucagon receptor the compounds may be suitable for the treatment and/or prevention of any diseases and disorders, wherein a glucagon antagonistic action is beneficial, such as hyperglycemia, Type 1 diabetes, Type 2 diabetes, disorders of the lipid metabolism and obesity.

Classifications:

International (IPC 8-9): A61K31/00 A61K31/16 A61K31/18 A61K31/195 A61K31/196 A61K31/197 A61K31/198 A61K31/245 A61K31/275 A61K31/277 A61K31/341 A61K31/357 A61K31/36 A61K31/381 A61K31/395 A61K31/4035 A61K31/404 A61K31/405 A61K31/41 A61K31/415 A61K31/4184 A61K31/4196 A61K31/423 A61K31/4245 A61K31/425 A61K31/426 A61K31/427 A61K31/428 A61K31/429 A61K31/433 A61K31/44 A61K31/4402 A61K31/4406 A61K31/4409 A61K31/4427 A61K31/443 A61K31/4436 A61K31/4439 A61K31/444 A61K31/4453 A61K31/4523 A61K31/454 A61K31/496 A61K31/497 A61K31/505 A61K31/506 A61K31/52 A61K31/5355 A61K31/5377 A61K31/549 A61K31/55 A61K31/64 A61K31/695 A61K38/26 A61K38/51 A61K45/00 A61K45/06 A61P1/00 A61P1/04 A61P1/14 A61P1/18 A61P3/00 A61P3/04 A61P3/06 A61P3/08 A61P3/10 A61P43/00 A61P5/00 A61P5/48 A61P5/50 A61P9/00 A61P9/10 A61P9/12 C07C233/83 C07C235/38 C07C237/12 C07C255/60 C07C271/00 C07C275/26 C07C275/28 C07C275/30 C07C275/34 C07C275/42 C07C279/18 C07C279/28 C07C311/46 C07C317/24 C07C317/40 C07C317/44 C07C323/22 C07D209/08 C07D209/48 C07D211/72 C07D213/40 C07D213/74 C07D213/75 C07D213/80 C07D213/81 C07D235/08 C07D235/10 C07D235/12 C07D235/14 C07D235/18 C07D239/42 C07D257/04 C07D257/06 C07D263/56 C07D263/57 C07D271/06 C07D271/07 C07D271/12 C07D271/18 C07D277/20 C07D277/28 C07D277/30 C07D277/38 C07D277/42 C07D277/44 C07D277/46 C07D277/48 C07D277/52 C07D277/54 C07D277/56 C07D277/60 C07D277/66 C07D277/82 C07D285/135 C07D285/16 C07D295/14 C07D307/68 C07D317/60 C07D319/08 C07D319/10 C07D319/20 C07D333/20 C07D333/24 C07D333/28 C07D333/36 C07D403/04 C07D405/04 C07D409/04 C07D409/06 C07D409/12 C07D413/12 C07D417/02 C07D417/04 C07D417/06 C07D417/08 C07D417/12 C07D417/14 C07D473/38 C07D487/04 C07D513/04 C07F7/10 C07F7/18 (Advanced/Invention); A61K31/426 A61K31/427 A61K31/4439 A61K31/496 A61K31/506 A61K31/52 A61K31/5377 C07D263/56 C07D277/52 C07D277/56 C07D285/12 (Advanced/Non-invention); A61K31/00 A61K31/16 A61K31/18 A61K31/185 A61K31/21 A61K31/275 A61K31/341 A61K31/357 A61K31/381 A61K31/403 A61K31/41 A61K31/415 A61K31/416 A61K31/423 A61K31/4245 A61K31/426 A61K31/427 A61K31/428 A61K31/429 A61K31/433 A61K31/44 A61K31/4406 A61K31/4409 A61K31/4427 A61K31/4453 A61K31/549 A61K38/26 A61K38/43 A61K45/00 A61P3/00 A61P43/00 A61P5/00 C07C233/00 C07C235/00 C07C237/00 C07C255/00 C07C279/00 C07C311/00 C07C317/00 C07C323/00 C07D209/00 C07D213/00 C07D235/00 C07D257/00 C07D263/00 C07D271/00 C07D277/00 C07D285/00 C07D295/00 C07D307/00 C07D317/00 C07D319/00 C07D333/00 C07D403/00 C07D405/00 C07D409/00 C07D417/00 C07D473/00 C07D487/00 C07D513/00 (Core/Invention); A61K A61P C07D (Subclass/Invention); A61K A61P C07D (Subclass/Non-invention)

PatBase - W004002481_A1



International (IPC 1-7): A61K31/00 A61K31/10 A61K31/16 A61K31/17 A61K31/18 A61K31/195 A61K31/196 A61K31/197 A61K31/198 A61K31/245 A61K31/275 A61K31/277 A61K31/341 A61K31/353 A61K31/357 A61K31/36 A61K31/381 A61K31/395 A61K31/4035 A61K31/404 A61K31/405 A61K31/41 A61K31/415 A61K31/4184 A61K31/423 A61K31/4245 A61K31/425 A61K31/426 A61K31/427 A61K31/428 A61K31/429 A61K31/433 A61K31/434 A61K31/4402 A61K31/4406 A61K31/4409 A61K31/4427 A61K31/443 A61K31/4436 A61K31/4439 A61K31/444 A61K31/4453 A61K31/454 A61K31/496 A61K31/505 A61K31/506 A61K31/52 A61K31/5377 A61K31/64 A61K31/695 A61K38/51 A61K45/00 A61K45/06 A61P1/14 A61P3/00 A61P3/04 A61P3/06 A61P3/08 A61P3/10 A61P43/00 A61P5/46 A61P5/48 A61P5/50 A61P9/12 C0741/02 C0743/02 C07C229/00 C07C233/83 C07C235/38 C07C235/84 C07C237/12 C07C255/60 C07C275/26 C07C275/28 C07C275/30 C07C275/34 C07C275/42 C07C279/18 C07C279/28 C07C311/46 C07C317/24 C07C317/40 C07C317/44 C07C323/22 C07C323/62 C07D207/30 C07D209/08 C07D209/14 C07D213/08 C07D213/26 C07D213/40 C07D213/55 C07D213/56 C07D213/74 C07D213/75 C07D213/81 C07D235/08 C07D235/10 C07D235/12 C07D235/18 C07D239/42 C07D249/16 C07D257/00 C07D257/04 C07D257/06 C07D261/02 C07D263/56 C07D263/57 C07D271/06 C07D271/12 C07D277/04 C07D277/20 C07D277/28 C07D277/42 C07D277/44 C07D277/46 C07D277/48 C07D277/52 C07D277/54 C07D277/56 C07D277/60 C07D277/66 C07D277/82 C07D285/12 C07D285/135 C07D285/16 C07D295/14 C07D307/68 C07D317/60 C07D319/08 C07D319/10 C07D319/14 C07D319/20 C07D332/12 C07D333/20 C07D333/24 C07D333/28 C07D333/36 C07D401/12 C07D403/04 C07D403/12 C07D405/04 C07D405/12 C07D407/12 C07D409/04 C07D409/06 C07D409/12 C07D413/02 C07D413/112 C07D413/12 C07D417/04 C07D417/06 C07D417/12 C07D417/14 C07D473/38 C07D487/04 C07D513/04 C07F7/18

CPC: A61K31/195 A61K31/198 A61K31/41 A61K31/4439 A61K31/16 A61K31/18 C07C279/16 C07C279/18 C07C279/28 A61K31/405 A61K31/415 A61K31/4184 C07D235/08 C07D235/10 C07D235/12 C07D235/14 C07D235/18 C07D403/04 C07D405/04 C07D409/04 C07D409/06 A61K38/26 A61K31/404 C07D277/38 A61K31/427 A61K31/454 A61K31/55 C07D213/75 C07D277/48 C07D277/54 C07D285/135 C07D417/06 C07D417/14 C07D473/38 C07C2601/14 C07C2601/16 C07D209/48 C07C275/42 C07D209/08 C07D257/04 C07D263/57 C07D271/06 C07D271/07 C07D277/82 C07D319/08 C07D319/20 C07D333/36 C07D413/12 C07D417/12 A61K45/06 C07D277/52 C07D277/56

European: A61K31/16 A61K31/18 A61K31/195 A61K31/198 A61K31/405 A61K31/41 A61K31/415 A61K31/4184 A61K31/427 A61K31/4439 A61K31/454 A61K31/55 A61K38/26 A61K45/06 C07C275/42 C07C279/16 C07C279/18 C07C279/28 C07D209/08 C07D209/48 C07D213/75 C07D235/08 C07D235/10 C07D235/12 C07D235/14 C07D235/18 C07D257/04 C07D263/57 C07D271/06 C07D271/07 C07D277/46 C07D277/48 C07D277/52 C07D277/54 C07D277/56 C07D277/82 C07D285/135 C07D319/08 C07D319/20 C07D333/36 C07D403/04 C07D405/04 C07D409/04 C07D409/06 C07D413/12 C07D417/06 C07D417/12 C07D417/14 C07D473/38 M07C101/14 M07C101/16

US: 1/1 424/94.5 424/94.500P 514/1 514/11.7 514/11.700S 514/1S 514/2 514/217.1 514/217.100P 514/231.5 514/231.500P 514/235.8 514/235.800P 514/254.02 514/254.020S 514/254.03 514/254.030S 514/254.05 514/254.050S 514/326 514/326S 514/341 514/354 514/357 514/357S 514/363 514/363S 514/364 514/364S 514/365 514/365S 514/366 514/370 514/370S 514/371 514/371S 514/381 514/381S 514/384 514/394 514/394S 514/4.8 514/4.800S 514/408 514/408S 514/417 514/417S 514/419 514/419S 514/438 514/452 514/466 514/561 514/561S 514/562 514/562S 514/563 514/563S 514/567 514/567S 514/601 514/601S 514/625 514/625S 514/7.3 514/7.300S 514/7.4 514/7.400S 540/603 540/603S 544/132 544/132S 544/138 544/138S 544/367 544/367S 546/192 546/207 546/207P 546/208 546/208S 546/209 546/209S 546/229 546/229S 546/268.4 546/268.400S 546/300 546/300S 546/335 546/335S 546/336 546/336S 548/132 548/132S 548/150 548/150S 548/189 548/190 548/190S 548/195 548/196 548/202 548/202 548/240 548/240S 548/252 548/252S 548/253 548/253S 548/257 548/257S 548/304.4 548/304.400S 548/309.1 548/477 548/503 548/503S 548/561 548/561S 549/355 549/366 549/441 549/77 562/439 562/442 562/442S 562/444 562/445 562/45 562/450 562/450S 562/451 562/451S 562/553 562/553S 562/556 562/556S 564/193 564/193S 564/8 564/80 564/80S

Family:

Publication number	Publication date	Application number	Application date
AU2002223500 AA	20020527	AU20020223500	20011115
AU200223500 A1	20020527	AU20020223500	20011115
AU200223500 A5	20020527	AU20020223500	20011115

AU2002347022 AA	20030709	AU20020347022	20021210
AU2002349299 AA	20030617	AU20020349299	20021203
AU2002351730 AA	20030630	AU20020351730	20021212
AU2002351748 AA	20030715	AU20020351748	20021219
AU2002351748 BB	20090709	AU20020351748	20021219
AU2002365622 AA	20030617	AU20020365622	20021128
AU2003233780 AA	20040119	AU20030233780	20030527
AU2003236205 AA	20031202	AU20030236205	20030515
AU2003243921 AA	20040119	AU20030243921	20030627
AU2003243921 BB	20090507	AU20030243921	20030627
BRPI0215212 A	20041207	BR2002PI15212	20021219
BRPI0312023 A	20050322	BR2003PI12023	20030627
CA2471049 AA	20040618	CA20022471049	20021219
CA2488642 AA	20041206	CA20032488642	20030627
CA2488642 C	20110906	CA20032488642	20030627
CA2744893 AA	20040108	CA20032744893	20030627
CN100506807 C	20090701	CN20028027501	20021219
CN101130526 A	20080227	CN200710153786	20030627
CN101130526 B	20130710	CN200710153786	20030627
CN101434585 A	20090520	CN200810160951	20021219
CN1658871 A	20050824	CN20028027501	20021219
CN1678311 A	20051005	CN20038020170	20030627
CZ20040747 A3	20041110	CZ20040000747	20021219
DE60346786 D1	20141106	DE20036046786	20030627
EP1336607 A1	20030820	EP20020388015	20020219
EP1345890 A1	20030924	EP20010996528	20011115
EP1453541 A1	20040908	EP20020781171	20021203
EP1458382 A1	20040922	EP20020787463	20021219
EP1463715 A1	20041006	EP20020804158	20021128
EP1509509 A1	20050302	EP20030722312	20030515
EP1519723 A1	20050406	EP20030727245	20030527
EP1531815 A1	20050525	EP20030761446	20030627
EP1531815 B1	20140924	EP20030761446	20030627
EP2305648 A1	20110406	EP20100181515	20021219
EP2471533 A1	20120704	EP20110189145	20030627
ES2526192 T3	20150108	ES20030761446T	20030627
HU0402309 AB	20050228	HU20040002309	20021219
HU0402309 AC	20080929	HU20040002309	20021219
IL162620 A0	20051120	IL20020162620	20021219
IL165532 A0	20060115	IL20040165532	20041202
IL165532 A1	20130627	IL20030165532	20030627
IN00045CN2008 A	20090102	IN2008CN00045	20080103
IN00135CN2008 A	20080919	IN2008CN00135	20080109
IN01371CN2004 A	20060203	IN2004CN01371	20040618
IN02911CN2004 A	20060217	IN2004CN02911	20041221
IN225859 B	20090109	IN2004CN01371	20040618
JP2004513935 T2	20040513	JP20020542773T	20011115
JP2005511683 T2	20050428	JP20030549302T	20021128
JP2005518391 T2	20050623	JP20030556060T	20021219
JP2005526702 T2	20050908	JP20030548881T	20021203
JP2005537231 T2	20051208	JP20040505352T	20030515
JP2005537333 T2	20051208	JP20040548878T	20030627
JP2006500325 T2	20060105	JP20040516507T	20030527
JP2010265306 A2	20101125	JP20100162302	20100716
JP2011006435 A2	20110113	JP20100178083	20100806
JP2011168609 A2	20110901	JP20110092035	20110418
JP4881559 B2	20120222	JP20040548878T	20030627
KR101018318 B1	20110304	KR20047009841	20021219
KR101116627 B1	20121009	KR20047021359	20030627
KR101124245 B1	20120702	KR20117028716	20030627
KR20040075900 A	20040830	KR20047009841	20021219
KR20050019801 A	20050303	KR20047021359	20030627
KR20110133503 A	20111212	KR20117028716	20030627
MXPA04006048 A1	20040927	MX2004PA06048	20021219
MXPA05000130 A1	20050217	MX2005PA00130	20030627
NO20043116 A	20040920	NO20040003116	20040720
NO20050426 A	20050329	NO20050000426	20050126
NO20111028 A	20050329	NO20110001028	20110715
NO330920 B1	20110815	NO20050000426	20050126
PL215132 B1	20131031	PL20030374920	20030627
PL370989 A1	20050613	PL20020370989	20021219
PL374920 A1	20051114	PL20030374920	20030627
RU2004122407 A	20050410	RU20040122407	20021219
RU2005101880 A	20050827	RU20050101880	20030627
RU2340605 C2	20081210	RU20050101880	20030627
RU2374236 C2	20091127	RU20040122407	20021219
TW200303207 A	20030901	TW20030100480	20030110
TW200401634 A	20040201	TW20020135050	20021203
TWI355938 B	20120111	TW20030100480	20030110
UA84390 C2	20081027	UA20040604430	20021219
US2002187982 AA	20021212	US20010996025	20011116

US2003178415 AA	20030324	US20020398255	20021203
US2003203946 AA	20031030	US20020151683	20020517
US2003212119 AA	20031113	US20020322329	20021218
US2003229128 AA	20031211	US20020322168	20021218
US2003236292 AA	20031225	US20020308528	20021203
US2004014789 AA	20040122	US20030448529	20030530
US2004116483 AA	20040617	US20030658319	20030909
US2004122235 AA	20040624	US20030679887	20031006
US2005256175 AA	20051117	US20050063117	20050222
US2006183783 AA	20060817	US20060365534	20060301
US2008119454 AA	20080522	US20070981997	20071031
US2008119455 AA	20080522	US20070982248	20071031
US2011301158 AA	20111208	US20110209565	20110815
US6649641 BB	20031118	US20010996025	20011116
US6762318 BB	20040713	US20020308528	20021203
US6881746 BB	20050419	US20030448529	20030530
US7384967 BB	20080610	US20030679887	20031006
US7541373 BB	20090602	US20060365534	20060301
US7897628 BB	20110301	US20070982248	20071031
US8063081 BB	20111122	US20070981997	20071031
USRE45670 E	20150915	US20130136825	20131220
WO0240445 A1	20020523	WO2001DK00758	20011115
WO03047626 A1	20030612	WO2002DK00814	20021203
WO03048109 A1	20030612	WO2002DK00800	20021128
WO03051357 A1	20030626	WO2002DK00847	20021212
WO03053938 A1	20030703	WO2002DK00832	20021210
WO03055482 A1	20030710	WO2002DK00880	20021219
WO03097619 A1	20031127	WO2003DK00321	20030515
WO04002480 A1	20040108	WO2003DK00350	20030527
WO04002481 A1	20040108	WO2003DK00449	20030627
ZA200500766 A	20060531	ZA20050000766	20050126

Priority:

DK20000001732	20001117	US20000252319P	20001120	WO2001DK00758	20011115
US20010996025	20011116	DK20010001789	20011203	US20010336876P	20011205
DK20010001917	20011219	DK20010001925	20011220	US20010342428P	20011220
US20010342355P	20011220	US20010386185P	20011221	WO2002DK00880	20020119
EP20020388015	20020219	US20020151683	20020517	DK20020001006	20020627
DK20020000999	20020627	US20020394145P	20020703	US20020394144P	20020703
DK20020001117	20020718	US20020397809P	20020718	WO2002DK00800	20021128
EP20020781171	20021203	US20020308355	20021203	US20020308528	20021203
WO2002DK00814	20021203	WO2002DK00832	20021210	WO2002DK00847	20021212
DK20020001927	20021217	US20020322329	20021218	US20020322168	20021218
US20020434255P	20021218	JP20030556060	20021219	EP20020787463	20021219
EP20100181515	20021219	JP20030556060T	20021219	US20020323290	20021219
WO2002DK00880	20021219	DK20030000286	20030225	US20030452228P	20030305
WO2003DK00321	20030515	WO2003DK00350	20030527	US20030448529	20030530
CA20032488642	20030627	CA20032744893	20030627	JP20040548878	20030627
EP20030761446	20030627	WO2003DK00449	20030627	US20030658319	20030909
US20030679887	20031006	US20050063117	20050222	US20060365534	20060301
US20070981997	20071031	US20070982248	20071031	US20110209565	20110815
US20130136825	20131220				

Probable Assignee: VTV THERAPEUTICS LLC

Assignee(s): (std): BEHRENS CARSTEN ; BLOCH PAW ; BLUME NIELS ; LAU JESPER ; KODRA JANOS TIBOR ; GUZEL MUSTAFA ; CHRISTENSEN INGE THOGER ; JORGENSEN ANKER STEEN ; JEPPESEN LONE ; CHRISTENSEN INGER T ; KODRA JANOS T ; LOPEZ MARIA C V ; NOVO NORDISK AS ; SANTHOSH KALPATHY CHIDAMBARESW ; MJALLI ADNAN M M ; POLISETTI DHARMA RAO ; MADSEN PETER ; NIELSEN POUL ENRICO ; VALCARCE LOPEZ MARIA CARMEN ; SUBRAMANIAN GOVINDAN ; MURRAY ANTHONY ; ANDREWS ROBERT C ; ANDREWS ROBERT CARL ; ANKERSEN MICHAEL ; LOPEZ MARIA CARMEN VALCARCE ; SANTHOSH KALPATHY CHIDAMBARESWARAN ; POLISETTI DHARMA R ; SANTHOSH KALPATHY C ; MJALLI ADNAN M ; NOVO NORDISK A S ; NIELSEN POUL E ; NOVO NORDISK A ; TRANSTECH PHARMA LLC ; VEDSOE PER ; VEDSO PER

Assignee(s): SANTOSH KALPATHY CHIDAMBARESWARAN ; VTV THERAPEUTICS LLC ; NOVO NORDISK A S NOVO ALLEDK ; NOVO NORDISK NOVO ALLEBAGSVAERD ; NOVO NORDISK AKTIE SELSXAB ; PFIZER INC ; NOVA NORDISK A S ; NOVO NORDISK ; MJALLI ADNAN MM ; HORIZON TECHNOLOGY FINANCE COLLATERAL AGENT AS CORP ; NOVO NORDICK A S

Inventor(s): (std): ANKER STEEN JORGENSEN ; ANKERSEN MIKHAEL ; ANTHONY MURRAY ; BLOK PAV ; BLUME NIL S ; CARMEN VALCARCE LOPEZ MARIA ; CARSTEN BEHRENS ; CHIDAMBARESW SANTHOSH KALPATHY ; CHRISTENSEN INGE TH GER ; EHNDRIUS ROBERT KARL ; GOVINDAN SUBRAMANIAN ; ADNAN M ; J RGENSEN ANKER STEEN ; JANOS KODRA KODRA ; JEPPESEN LONE ; JESPER LAU ; JOERGENSEN ANKER STEEN ; JORGENSEN ANKER STEEN ; KALPATHY CHIDAMBARESWARAN SANT ; KALPATHY CHIDAMBARESWARAN SANTHOSH ; KALPATHY CHIDAMBARESWARAN SANTOSH ; KODRA JANOS KODRA ; KODRA JANOS T ; KODRA JANOS TIBOR ; LAU JESPER ; LONE JEPPESEN ; JANOS TIBOR KODRA ; LOPEZ MARIA C V ; MADSEN PETER ; MADSEN PRTER ; MARIA CARMEN VALCARCE LOPEZ ; MDZHALLI ADNAN M M ; MICHAEL ANKERSEN ; MJALLI ADNAN M M ; NIELSEN POUL E ; NIELSEN POUL ENRICO ; NTHONY ; PAW BLOCH ; PER VEDSO ; PETER MADSEN ; POLISETTI DHARMA R ; POLISETTI DHARMA RAO ; MJALLI ADNAN MM ; MJURREHJ EHNTONI ; MURRAY A ; MURRAY ANTHONY ; MUSTAFA GUZEL ; NIELS BLUME ; POLIZETTI DKHARMA RAO ; POUL ENRICO NIELSEN ; RAO POLISETTI DHARMA ; ROBERT CARL ANDREWS ; SANTHOSH KALPATHY C ; SANTHOSH KALPATHY CHIDAMBARESW ; SANTHOSH KALPATHY CHIDAMBARESWARAN ; SANTOSH KALPATHY CHIDAMBARESWA ; SANTOSH KALPATHY CHIDAMBARESWARAN ; SANTOSH KALPATI CHIDAMBARESVARAN ; SUBRAMANIAN GOVINDAN ; TIBOR KODRA JANOS ; VAL KARSE LOPES MARIJA KARMEN ; VALCARCE LOPEZ MARIA CARMEN ; VEDSE PER ; VEDSO PER ; VEDSOE PER ; GUZEL MUSTAFA ; CHRISTENSEN INGER T ; CHRISTENSEN INGE THOGER ; CHRISTENSEN INGE THOGER ; CHIDAMBARESWA SANTOSH KALPATHY ; CARL ANDREWS ROBERT ; BLUME NIELS ; BLOCH PAW ; BEHRENS CARSTEN ; ANKERSEN MICHAEL ; ANDREWS ROBERT CARL ; ANDREWS ROBERT C ; VALCARCE L PEZ MARIA CARMEN ; SUBRAMANIAM GOVINDAN ; VALCARCE LOPEZ MONA CARMEN ; SUBRAMANIAN GIVINDAN ; DHARMA RAO POLISETTI ; VALCARCE LOPEZ MARIA C ; POLISETTI DKHARMA RAO ; POLISETTI DHARMA ; LOPEZ MARIA CARMEN VALCARCE ; LAU JESPER F ; KALPATHY SANTHOSH CHIDAMBARESWARAN ; GUZEI MUSTAFA ; MJALLI ADNAN M ; KODRA J NOS TIBOR ; INGE THOGER CHRISTENSEN ; JORGENSEN ANKER S ;

Inventor(s): JEPPRESEN LONE
ADNAN M M MJALLI ; ANDREWS Rober Carl ; GOVINDAN SUBRAMANIAM ; MDZHALLI ADNAN M.M. ;
KODRA J NOS TIBOR ; JORGENSEN ANKERS ; SANTOSH KALPATHY ; RYESGADE ; VALCARCE-
LOPEZMARIACARMEN ; ANKERSEN MIKHAEL' ; BLUME NIL'S ; CHRISTENSEN INGER THOGER ;
VAL'KARSE-LOPES MARIJA KARMEN ; VALCARCE LOPEZ MARIA ; SUBRAMANIAN GOVINDAN HIGH
POINT ; SANTHOSH KALPATHY CHIDAMBARESWARAN HIGH POINT ; SANTHOSH KALPATHY ; NIELSEN
POUL ; POLISETTI DHARMA RAO GREENSBORO ; MJALLI ADNAN M M JAMESTOWN ; MJALLI ADNAN ;
LOPEZ MARIA CV ; JEPPESEN LON ; LOPEZ MARIA ; KODRA JANOS ; JANOS TIBOR ; ANDREWS
ROBERT ; ANDREWS ROBERT CARL JAMESTOWN ; GUZEL' MUSTAFA ; GUZEL MUSTAFA JAMESTOWN ;
CHRISTENSEN INGER

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; MCCARTHY TETRAULT LLP; OGILVY RENAULT LLP SENCRL SRL;
NORTON ROSE OR SENCRL SRL LLP; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; NIELSEN
LARS BALZER; CARPINTERO MARIO; REINHOLD COHN AND PARTNERS; NOVO NORDISK INC PATENT
DEPARTMENT; GREEN REZA; WIIK ORESCAR ROSEMARIE R; BOSK RICHARD W; RICHARD W; REZA;
ROSEMARIE R; WILK ORESCAN ROSEMARIE R; BOOK RICHARD W

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK
DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ
LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PG PH PL PT RO
RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: PHENYLALANINE ENAMIDE DERIVATIVES

Abstract: Phenylalanine enamide derivatives of formula (1) are described: wherein R¹ is a group Ar¹L²Ar²Alk- in which: Ar¹ is an optionally substituted aromatic or heteroaromatic group; L² is a covalent bond or a linker atom or group; Ar² is an optionally substituted arylene or heteroarylene group; and Alk is a chain -CH₂-CH(R)¹³, -CH=C(R)- or in which R is a carboxylic acid (-CO₂H) or a derivative or biostere thereof; X is an -O- or -S- atom or -N(R²)- group in which: R_x, R_y and R_z which may be the same or different is each a hydrogen atom or an optional substituent; or R_z is an atom or group as previously defined and R_x and R_y are joined together to form an optionally substituted spiro linked cycloaliphatic or heterocycloaliphatic group; and the salts, solvates, hydrates and N-oxides thereof. The compounds are able to inhibit the binding of integrins to their ligands and are of use in the prophylaxis and treatment of immuno or inflammatory disorders or disorders involving the inappropriate growth or migration of cells.

Classifications:

International (IPC 8-9): A61K31/198 A61K31/223 A61K31/352 A61K31/4375 A61K31/438 A61K31/44 A61K31/4406 A61K31/4412 A61K31/443 A61K31/4433 A61K31/4436 A61K31/4439 A61K31/444 A61K31/4545 A61K31/47 A61K31/4747 A61K31/497 A61K38/45 A61P1/04 A61P11/06 A61P17/00 A61P17/06 A61P19/02 A61P25/00 A61P25/28 A61P29/00 A61P3/10 A61P35/00 A61P37/00 A61P37/04 A61P37/06 A61P43/00 A61P7/00 A61P9/00 C07C229/34 C07C229/36 C07C229/46 C07C233/81 C07C233/82 C07C321/22 C07C323/30 C07D211/82 C07D213/72 C07D213/81 C07D213/89 C07D215/14 C07D311/96 C07D401/02 C07D401/12 C07D405/12 C07D409/12 C07D413/12 C07D417/04 C07D471/04 C07D471/10 C07H21/04 C07K16/00 C07K16/40 C12N1/21 C12N15/09 C12N15/54 C12N9/12 C12P21/06 C12Q1/48 (Advanced/Invention); A61P17/02 C07D471/04 (Advanced/Non-invention); A61K31/4353 A61K31/4412 A61K38/43 A61P25/00 A61P35/00 A61P37/00 A61P43/00 A61P7/00 A61P9/00 C07C229/00 C07D213/00 C07D401/00 C07D417/00 C07D471/00 C07K16/40 C12N1/21 C12N15/54 C12N9/12 C12Q1/48 (Core/Invention); A61P C07C C07D (Subclass/Invention); A61P C07C (Subclass/Non-invention)

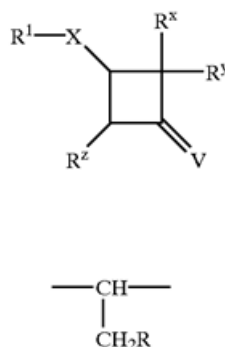
International (IPC 1-7): A61K31/19 A61K31/198 A61K31/40 A61K31/435 A61K31/4375 A61K31/44 A61K31/4406 A61K31/497 A61P17/00 A61P17/06 A61P19/02 A61P25/00 A61P29/00 A61P3/10 A61P37/00 A61P37/06 A61P43/00 A61P9/00 C07C229/34 C07C229/36 C07C229/46 C07C255/45 C07C321/22 C07C61/16 C07D213/46 C07D213/81 C07D213/89 C07D401/12 C07D405/12 C07D409/12 C07D471/04 C07K16/40 C12N1/21 C12N15/54 C12N5/10 C12N9/12 C12Q1/48

CPC: C12N9/1205 C07C2601/04 C07C2603/94 C07C2603/96 C07D213/81 C04B35/632 C07C229/10 C07C229/46 C07C233/81 C07C233/82 C07C323/30 C07D213/79 C07D213/89 C07D311/96 C07D401/12 C07D405/12 C07D409/12 C07D413/12 C07D471/04

European: C04B35/632 C07C229/10 C07C229/46 C07C233/81 C07C233/82 C07C323/30 C07D213/79 C07D213/81 C07D213/89 C07D311/96 C07D401/12 C07D405/12 C07D409/12 C07D413/12 C07D471/04 C12N9/12C M07C101/04 M07C103/94 M07C103/96 M12N203/00 M12N203/02 M12N207/00 M12N215/00

US: 435/194 435/194S 435/320.1 435/320.100S 435/325 435/325S 435/69.1 435/69.100P 514/255.05 514/278 514/300 514/300S 514/311 514/311S 514/318 514/318S 514/341 514/341S 514/345 514/345S 514/352 514/352S 514/355 514/355S 514/357 514/408 514/408S 514/455 514/557 514/557S 514/570 514/741 530/387.1 530/387.3 530/388.1 530/388.26 530/388.260S 536/23.2 536/23.200S 544/230 546/122 546/122S 546/15 546/15S 546/16 546/16S 546/174 546/174S 546/194 546/194S 546/268.4 546/268.400S 546/272.7 546/272.700S 546/290 546/290S 546/304 546/304S 546/315 546/315S 546/34 546/340 546/340S 548/571 548/571S 558/433 558/433P 560/51 560/53 562/459 562/465 562/505 562/505S 564/440 564/441 564/442

PatBase - US2002169336_AA



Family:

Publication number	Publication date	Application number	Application date
AT355276 E	20060315	AT20020715515T	20020118
AU2002225163 AA	20020912	AU20020225163	20020118
AU2002225163 BB	20070802	AU20020225163	20020118
AU2003286181 AA	20040618	AU20030286181	20031125
BG107991 A	20041230	BG20030107991	20030714
BRPI0207166 A	20040210	BR2002PI07166	20020118
CA2434666 AA	20030714	CA20022434666	20020118
CN100400513 C	20080709	CN20028005375	20020118
CN101293867 A	20081029	CN200810099535	20020118
CN1582276 A	20050216	CN20028005375	20020118
CZ20032259 A3	20040114	CZ20030002259	20020118
DE60218436 D1	20070412	DE20026018436	20020118
DE60218436 T2	20071031	DE20026018436T	20020118
DK1370531 T3	20070625	DK20020715515T	20020118
EP1370531 A1	20031217	EP20020715515	20020118
EP1370531 B1	20070228	EP20020715515	20020118
EP1567646 A1	20050831	EP20030776917	20031125
EP1780201 A2	20070502	EP20060077243	20020118
EP1780201 A3	20070516	EP20060077243	20020118
ES2282403 T3	20071016	ES20020715515T	20020118
GB200104418 A0	20010411	GB20010004418	20010222
GB200114000 A0	20010801	GB20010014000	20010608
GB200127562 A0	20020109	GB20010027562	20011116
GB200227562 A0	20021231	GB20020027562	20021126
GB200318429 A0	20030910	GB20030018429	20020118
GB2387845 A1	20031029	GB20030018429	20020118
GB2387845 B2	20050511	GB20030018429	20020118
HK1059087 A1	20070608	HK20040102092	20040322
HK1059087 A3	20040618	HK20040102092	20040322
HK1103737 A3	20071228	HK20070111932	20071102
HU0303160 AB	20031229	HU20030003160	20020118
IL156915 A0	20040208	IL20020156915	20020118
IL156915 A1	20090615	IL20020156915	20020118

IL195480 A0	20090211	IL20020195480	20020118
IL195481 A0	20090211	IL20020195481	20020118
JP2004524313 T2	20040812	JP20020567907T	20020118
JP2006506994 T2	20060302	JP20040554468T	20031125
JP2009057371 A2	20090319	JP20080188089	20080722
JP2010279371 A2	20101216	JP20100160462	20100715
JP4340064 B2	20091007	JP20020567907T	20020118
KR100885780 B1	20090226	KR20037010779	20020118
KR100899921 B1	20090528	KR20087009703	20020118
KR100905603 B1	20090702	KR20087029864	20020118
KR20030082595 A	20031022	KR20037010779	20020118
KR20080043407 A	20080516	KR20087009703	20020118
KR20090005240 A	20090112	KR20087029864	20081205
MXPA03006796 A1	20040531	MX2003PA06796	20020118
NO20033710 A	20031022	NO20030003710	20030820
NO20033710 A0	20030820	NO20030003710	20030820
NO20082587 A	20031022	NO20080002587	20080610
NO326554 B1	20090112	NO20030003710	20030820
NZ528134 A	20050930	NZ20020528134	20020118
NZ540232 A	20070629	NZ20020540232	20020118
PL364142 A1	20041213	PL20020364142	20020118
PT1370531 T	20070430	PT20020715515T	20020118
RU2003128105 A	20050410	RU20030128105	20020118
RU2296753 C2	20070410	RU20030128105	20020118
SI1370531 T1	20070831	SI20020030546T	20020118
SK200301032 A5	20040203	SK20030001032	20020118
SK286991 B6	20090907	SK20030001032	20020118
US2002169336 AA	20021114	US20020081072	20020222
US2005038084 AA	20050217	US20040947032	20040922
US2006172374 AA	20060803	US20030535920	20031125
US2007027174 AA	20070201	US20060533117	20060919
US2007167483 AA	20070719	US20070692612	20070328
US2009105291 AA	20090423	US20080327311	20081203
US2009186914 AA	20090723	US20090415546	20090331
US6878718 BB	20050412	US20020081072	20020222
US7122556 BB	20061017	US20040947032	20040922
US7501437 BB	20090310	US20070692612	20070328
US7531549 BB	20090512	US20060533117	20060919
US7645770 BB	20100112	US20080327311	20081203
US7786177 BB	20100831	US20090415546	20090331
US8008452 BB	20110830	US20030535920	20031125
WO02068393 A1	20020906	WO2002GB00206	20020118
WO04048576 A1	20040610	WO2003EP13251	20031125
ZA200305372 A	20040712	ZA20030005372	20030711

Priority:

GB20010004418	20010222	GB20010014000	20010608	GB20010027562	20011116
EP20020715515	20020118	JP20020567907	20020118	NZ20020528134	20020118
JP20020567907T	20020118	WO2002GB00206	20020118	US20020081072	20020222
GB20020027562	20021126	WO2002GB00206	20030814	JP20040554468	20031125
WO2003EP13251	20031125	US20040947032	20040922	US20060533117	20060919
US20070692612	20070328	WO2002GB00206	20080423	US20080327311	20081203
WO2002GB00206	20081205	US20090415546	20090331		

Probable Assignee: CELLTECH R AND D LTD

Assignee(s): (std): CELLTECH R AND D LTD ; CELLTECH CHIROSCIENCE LTD ; CELLTCH R AND D LTD ; NOVARTIS FORSCHUNGSSTIFTUNG ZW ; FOR BIOMEDICAL RES ; JOHNSON JAMES A ; HEAD JOHN C ; HEMMINGS BRIAN ARTHUR ; NOVARTIS FORSCHUNGSSTIFTUNG ; BAILEY STUART ; BICHSEL SAMUEL J ; BICHSEL SAMUEL JOSEPH ; BRAND STEPHEN ; BROWN JULIEN A ; FOR ; HEMMINGS BRIAN A ; NOVARTIS FORSCHUNGSSTIFTUNG ZWEIGNIEDERLASSUNG FRI ; NOVARTIS FORSCHUNGSSTIFTUNG ZWEIGNIEDERLASSUNG FRIEDRICH MIESCHER INST FOR BIOMEDICAL RES ; PORTER JOHN R ; STEGERT MARIO REINHARD ; TAMASKOVIC RASTISLAV ; STEGERT MARIO R ; SELLTEK R EHND D LTD ; UCB PHARMA S A ; UCB PHARMA SA ; RIGEL PHARMACEUTICALS INC

Assignee(s): UCB SA ; PORTER JOHN ROBERT ; SELLTEK R EHND D LIMITED ; NOVARTIS FORSCHUNGSSTIFTUNG ZWEIGNIEDERLASSUNG FRIEDRICH MIESCHER INSTITUTE FOR BIOMEDICAL RESEARCH ; NOVARTIS FORSCHUNGSSTIFTUNG ZWEIGNIEDERLASSUNG FRIEDRICH MIESCHER INST FOR BIOMEDICAL RESEARCH ; HEAD JOHN CLIFFORD ; JOHNSON JAMES ANDREW ; NOVARTIS FORSCHUNGSSTIFTUNG ZWEIGNIEDERLASSUNG FR ; NOVARTIS FORSCHUNGSSTIFTUNG ZWEIGNIEDERLASSUNG FRIEDRICH MIESCHER INSTITUTE FOR BIOMEDICAL RESEARCH ; NOVARTIS FORSCHUNGSSTIFTUNG ZWEIGNIEDERLASSUNG FRIEDRICH MIESCHER INST FOR BIOMEDICAL RESEARCH ; NOVARTIS FORSCHUNGSSTIFTUNG ZWEIGNIEDERLASSUNG FRIEDRICH MIESCHER INSTITUTE ; D LIMITED SLOUGH ; NOVARTIS FORSCHUNGSSTIFTUNG ZWEIGNIEDERLASSUNG FR ; D Limited ; D LTD ; BROWN JULIEN ALISTAIR ; NOVARTIS FORSCHUNGSSTIFTUNG ZWEIGNIEDERLASSUNG ; FOR BIOMEDICAL RESEARCH ; CELLTECH R AND D LIMITED ; CELLTECH R AND D SLOUGH LTD ; CELLTECH CHIROSCIENCE LIMITED ; CELLTECH R AMP AMP ; CELLTECH R AND D LIMITED ; CELLTECH R and D LIMITED SLOUGH ; CELLTCH R and D LIMITED ; CELLTECH Rand D LTD

Inventor(s): (std): BICHSEL SAMUEL J ; BICHSEL SAMUEL JOSEPH ; BRAND SLOUGH ; BRAND STEPHEN ; BRAUN DZHULIEN EHLISTEHR ; BREHND STEFEN ; BRIAN ARTHUR HEMMINGS ; BROWN JULIEN ; BROWN JULIEN A ; BROWN JULIEN ALISTAIR ; BROWN JULIEN ALISTAR ; DZHONSON DZHEJMS EHNDJRJU ; HEAD JOHN ; HEAD JOHN C ; HEAD JOHN CLIFFORD ; HEMMINGS BRIAN A ; HEMMINGS BRIAN ARTHUR ; JAMES ANDREW JOHNSON ; JAMES JOHNSON ; JOHN CLIFFORD HEAD ; JOHN HEAD ; JOHN PORTER ; JOHN ROBERT PORTER ; JOHNSON JAMES ; JOHNSON JAMES A ; JOHNSON JAMES ANDREW ; JULIEN ALISTAIR BROWN ; JULIEN BROWN ; KHED DZHON KLIFORD ; MARIO REINHARD STEGERT ; PORTER DZHON ROBERT ; PORTER JOHN ; PORTER JOHN R ; PORTER JOHN ROBERT ; RASTISLAV TAMASKOVIC ; SAMUEL JOSEPH BICHSEL ; BAILEY SLOUGH ; BAILEY STUAR ; BAILEY STUART ; BEHJLI STJUART ; STEGERT MARIO R ; STEGERT MARIO REINHARD ; STEPHEN BRAND ; STUART BAILEY ; TAMASKOVIC RASTISLAV

Inventor(s): BICHSEL SAMUEL ; STEGERT MARIO ; HEMMINGS BRIAN

Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; HERBERT SMITH
FREEHILLS; FPA PATENT ATTORNEYS PTY LTD; KIRBY EADES GALE BAKER; LUZZATTO AND LUZZATTO;
ASAMURA KIYOSHI; ASAMURA HAJIME; NAGANUMA TERUO; IKEDA YUKIHIRO; WOODCOCK
WASHBURN LLP; NOVARTIS, CORPORATE INTELLECTUAL PROPERTY; NOVARTIS CORPORATE
INTELLECTUAL PROPERTY; MCDONNELL BOEHNEN HULBERT AND BERGHOFF LLP; HOXIE AND
ASSOCIATES LLC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ
DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP
KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO
RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Title: SUBSTITUTED METHYLENE AMIDE DERIVATIVES AS MODULATORS OF PROTEIN TYROSINE PHOSPHATASES(PTPS)

Abstract: The present invention is related to substituted methylene amide derivatives of formula (I) and use thereof for the treatment and/or prevention of metabolic disorders mediated by insulin resistance or pyperglycemia, comprising diabetes type I and/or II, inadequate glucose tolerance, insulin resistance, hyperlipidemia, hypertriglyceridemia, hypercholesterolemia, obesity, polycystic ovary syndrome (PCOS). In particular, the present invention is related to the use of substituted methylene amide derivatives of formula (I) to modulate, notably to inhibit the activity of PTPs. Also the present invention relates to a method of treating diabetes type II, obesity and to regulate the appetite of mammals. The present invention is furthermore related to novel substituted methylene amide derivatives and method of preparation thereof. Formula (I).

Classifications:

International (IPC 8-9): A61K31/16 A61K31/19 A61K31/197 A61K31/198 A61K31/27 A61K31/275 A61K31/34 A61K31/343 A61K31/36 A61K31/38 A61K31/381 A61K31/42 A61K31/424 A61K31/4245 A61K31/426 A61K31/43 A61K31/433 A61K31/44 A61K31/4402 A61K31/4406 A61K31/4409 A61K31/443 A61K31/4436 A61K31/445 A61K31/4468 A61K31/49 A61K31/498 A61K31/53 A61K31/537 A61K31/5377 A61K45/00 A61P15/00 A61P15/08 A61P3/04 A61P3/06 A61P3/10 A61P43/00 C07B61/00 C07C229/00 C07C231/12 C07C233/13 C07C233/18 C07C233/31 C07C233/36 C07C233/47 C07C233/56 C07C233/80 C07C235/56 C07C237/30 C07C237/32 C07C237/42 C07C237/44 C07C239/16 C07C255/60 C07C317/32 C07C51/09 C07D211/26 C07D211/58 C07D211/92 C07D211/96 C07D213/36 C07D213/40 C07D213/75 C07D271/06 C07D277/20 C07D277/38 C07D285/06 C07D307/79 C07D307/81 C07D307/91 C07D317/58 C07D333/20 C07D333/34 C07D333/38 C07D333/40 C07D333/58 C07D333/70 C07D401/04 C07D401/06 C07D409/12 (Advanced/Invention);

A61K31/16 A61K31/18 A61K31/185 A61K31/27 A61K31/275 A61K31/34 A61K31/343 A61K31/35 A61K31/357 A61K31/38 A61K31/381 A61K31/42 A61K31/424 A61K31/4245 A61K31/426 A61K31/43 A61K31/433 A61K31/44 A61K31/4402 A61K31/4409 A61K31/4427 A61K31/445 A61K31/49 A61K31/498 A61K31/53 A61K31/537 A61K31/5375 A61K45/00 A61P15/00 A61P3/00 A61P43/00 C07B61/00 C07C229/00 C07C233/00 C07C237/00 C07C255/00 C07C317/00 C07C51/09 C07D211/00 C07D213/00 C07D271/00 C07D277/00 C07D285/00 C07D307/00 C07D317/00 C07D333/00 C07D401/00 C07D409/00 (Core/Invention);

A61K A61P C07C C07D (Subclass/Invention);

A61K A61P C07D (Subclass/Non-invention)

International (IPC 1-7): A61K A61K31/16 A61K31/198 A61K31/20 A61K31/275 A61K31/277 A61K31/343 A61K31/36 A61K31/381 A61K31/4245 A61K31/426 A61K31/433 A61K31/44 A61K31/4402 A61K31/4409 A61K31/4436 A61K31/445 A61K31/498 A61K31/5377 A61K31/7008 A61K45/00 A61P A61P15/00 A61P3/04 A61P3/06 A61P3/10 A61P43/00 C07B61/00 C07C C07C233/13 C07C233/18 C07C233/31 C07C233/36 C07C233/47 C07C233/56 C07C237/42 C07C237/44 C07C255/60 C07C317/32 C07C51/09 C07D C07D211/26 C07D211/58 C07D211/92 C07D213/40 C07D271/06 C07D277/20 C07D277/28 C07D277/38 C07D285/06 C07D307/81 C07D307/91 C07D317/58 C07D333/20 C07D333/34 C07D333/58 C07D333/70 C07D401/06 C07D409/12

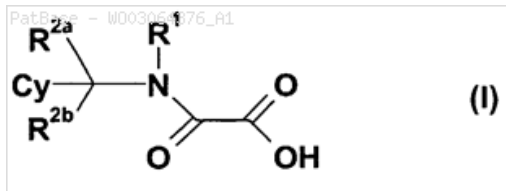
CPC: C07C2601/14 C07D213/40 C07D211/26 C07D211/58 C07D211/96 C07D271/06 C07D277/28 C07D285/06 C07D307/79 C07D307/91 C07D317/58 C07D333/20 C07D333/34 C07D333/38 C07D401/04

European: C07D211/26 C07D211/58 C07D211/96 C07D213/40 C07D271/06 C07D277/28 C07D285/06 C07D307/79 C07D307/91 C07D317/58 C07D333/20 C07D333/34 C07D333/38 C07D401/04 M07C101/14

US: 514/317 514/352 514/352S 514/364 514/364S 514/447 514/447S 514/468 514/468S 514/521 514/521S 514/563 514/563S 514/62 514/62S 536/55.2 536/55.200S 546/225 546/225S 546/308 546/308S 548/131 548/133 548/133S 554/51 554/51S 554/54 554/54S 560/37

Family:

Publication number	Publication date	Application number	Application date
AT510817 E	20110615	AT20030734697T	20030127
AU2003239296 AA	20030902	AU20030239296	20030127
AU2003239296 BB	20081023	AU20030239296	20030127
BRPI0307394 A	20041109	BR2003PI07394	20030127
CA2472021 AA	20040629	CA20032472021	20030127
CA2472021 AA	20030807	CA20032472021	20030127
CA2472021 C	20120814	CA20032472021	20030127
CN100410236 C	20080813	CN20038007036	20030127
CN1633410 A	20050629	CN20038007036	20030127
CY1111576 T1	20151007	CY20111100576T	20110616
DE60337220 D1	20110707	DE20036037220	20030127
DK1470102 T3	20110620	DK20030734697T	20030127
EA012260 B1	20090828	EA20040000882	20030127
EA200400882 A1	20050428	EA20040000882	20030127
EP1470102 A1	20041027	EP20030734697	20030127
EP1470102 B1	20110525	EP20030734697	20030127
ES2366905 T3	20111026	ES20030734697T	20030127
HK1073649 A1	20081219	HK20050107572	20050830
HK1073649 A3	20051014	HK20050107572	20050830
HR20040612 A2	20050430	HR20040000612	20040706
IL163144 A1	20120731	IL20030163144	20030127
IN01884DN2004 A	20070406	IN2004DN01884	20040701
JP2005516061 T2	20050602	JP20030564000T	20030127
JP2011256174 A2	20111222	JP20110146082	20110630
JP4828793 B2	20111130	JP20030564000T	20030127
MXPA04007253 A1	20041029	MX2004PA07253	20030127
NO20043520 A	20041005	NO20040003520	20040824
NO329742 B1	20101213	NO20040003520	20040824
PL207295 B1	20101130	PL20030371198	20030127
PL371198 A1	20050613	PL20030371198	20030127
PT1470102 T	20110606	PT20030734697T	20030127
RS51865 B	20120229	RS20040000653	20030127
RS51865 B	20120229	RS2004P000653	20030127
RS51865 B	20120229	YU20040000653	20030127
RS65304 A	20070205	RS20030000304	20030127



RS65304 A	20070205	RS2003P000304	20030127
RS65304 A	20070205	YU20040000653	20030127
SI1470102 T1	20110831	SI20030032010T	20030127
UA82661 C2	20080512	UA20040706337	20030127
US2005124656 AA	20050609	US20030501344	20030127
US7592477 BB	20090922	US20030501344	20030127
WO03064376 A1	20030807	WO2003EP00808	20030127
ZA200405179 A	20050629	ZA20040005179	20040629
ZA200405179 A	20050831	ZA20040005179	20040629

Priority:

EP20020100078 20020129 EP20020100410 20020425 EP20030734697 20030127
WO2003EP00808 20030127 JP20030564000 20030127

Probable Assignee: MERCK SERONO SA

Assignee(s): (std): APPLIED RES SYSTEMS ; APPLIED RES SYSTEMS ARS ; APPLIED RESEARCH SYSTEMS ; SWINNEN DOMINIQUE ; BOMBRUN AGNES ; GONZALEZ JEROME ; GERBER PATRICK ; PITTET PIERRE ANDRE ; APLIED RES SYSTEMS ARS HOLDING N V ; SERONO LAB ; MERCK SERONO SA ; SERONO LABORATORIES LTD ; JOHN GUEST INT LTD

Assignee(s): AGNES BOMBRUN ; MERCK SERONO COINSINS SA ; PATRICK GERBER ; JEROME GONZALEZ ; DOMINIQUE SWINNEN ; MERCK SERONO S A ; PIERRE ANDRE PITTET ; LABORATOIRES SERONO S A ; APLIED RESEARCH SYSTEMS ARS HOLDING N V ; APLIED RESEARCH SYSTEMS ARS HOLDING NV ; LABORATOIRES SERONO SA ; APPLIED RESEARCH SYSTEMS ARS ; APPLIED RESEARCH SYSTEMS ARS HOLDING N V ; APPLIED RESEARCH SYSTEMS ARS HOLDING NV

Inventor(s): (std): AGNES BOMBRUN ; BOMBRUN AGNES ; DOMINIQUE SWINNEN ; GERBER PATRICK ; GONZALES JEROME ; GONZALEZ JEROME ; JEROME GONZALEZ ; PATRICK GERBER ; PIERRE ANDRE PITTET ; PITTET PIERRE ANDRE ; SWINNEN DOMINIQUE ; GONZALEZ JEROME J ; GONZALEZ JERA ME ; BOMBRUN AGNES A

Agent(s): GRIFFITH HACK; KIRBY EADES GALE BAKER; GRUENECKER PATENT U RECHTSANWAELTE PARTG MBB; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAEUSSER ANWALTSSOZIETAET; INTERPHARM LABORATORIES LTD; AOKI ATSUSHI; ISHIDA TAKASHI; FUKUMOTO TSUMORU; KOGA TETSUJI; TSURUTA JUNICHI; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: DERIVADOS DE NICOTINAMIDA UTILES COMO INHIBIDORES DE PDE4 Nicotinamide derivatives useful as inhibitors of PDE4 (Machine translation)

Abstract: Source: DOP2003000586A [ES] [Source: Claim 1] 1. Un compuesto de formula (1): O R ss (1) en la cual < R y R son cada uno un miembro seleccionado entre el grupo formado por atomo de hidrogeno, halo, ciano, alquilo (C.-C.) y alcoxi (C.-C.), •tss X es -O-, -S- o -NH-, I R, es un miembro seleccionado entre los grupos formados por: (a) fenilo, naftilo, heteroarilo y cicloalquilo (C.-CJ, cada uno opcionalmente sustituido con 1 a 3 sustituyentes cada uno seleccionado independientemente entre el grupo formado por halo, ciano, trifluorometilo, trifluoroetilo, trifluorometoxi, trifluoroetoxi, alquilo (C.-C4), al- coxi (C.-CJ, tioalquilo {C-- C4}, -C(=O)NH2, -C(=O)NH- alquilo C.-, hidroxi, -O-C (=O) alquilo (C.-C.), -C (=O) -O - alquilo i C - C } e hidroxi alquilo (C.-C.), cicloalquilo (C.-C. y cicloalquilo i C.-C.), o b los grupos biciclicos conforme a una de las siguientes estructuras 1.1 a (1.4): en la que el simbolo indica el punto de union de cada formula parcial (1.1) a (1.4) a la porcion restante de formula (1);, ssiss Y es un miembro seleccionado entre el grupo formado por las formulas parciales (1.5) a (1.8): (1.5) (1.8) (1-6) (1.7) en la que el simbolo " ss" indica el punto de union de cada formula parcial (1.5) a (1.8) a las porciones -NH- restantes de formula (1) y "ss ss" indica el punto de union de cada formula parcial (1.5) a (1.8) a las porciones Z restantes de formula (1), y en que R. es un miembro seleccionado entre los grupos formados por alquilo (C;-C;) y alquil IC.-C.) -feniio, en que dicho grupo feniio esta opcionalmente sustituido independientemente con 1 a 3 sustituyentes cada uno seleccionado entre el grupo formado por halo, ciano, alquilo (C.-C, alcoxi (C.-C.), hidroxi, hidroxi alquilo (C:-C.), acido carboxilico i-COOH), -C! =0; -O-alquilo i C.-C.), haloalquilo i C.-C: y -C 10 NH., *** Z es un miembro seleccionado entre el grupo formado por las formulas parciales '1.9. a 1.15: en la que el simbolo "ss" indica el punto de union de ca- da formula parcial (1.9) a (1.15) a las porciones Y restantes de formula (1) y "ss ss" indica el punto de union de cada formula parcial (1.9) a (1.15) a las porciones R. restantes de formula (1), ss o alternativamente Y-Z juntos representa un grupo de formula (1.16: NH en la que el simbolo indica el punto de union de la formula parcial (1.16) a las porciones -NH- restantes de formula 1 y "ss ss" indica el punto de union de la formula parcial 1.16 a las porciones -R restantes de formula •Iss y R es un miembro seleccionado entre el grupo formado por; a feniio, naftiio, heteroarilo y cicloalquilo IC.-C.,, cada uno opcionalmente sustituido con 1 a 3 sustituyentes cada uno seleccionado independientemente entre el grupo formado por acido carboxilico (-COOH), -C(=O)-O-alquilo- (c -C.), alquil (C.-C4) -COOH, alquil (C:-C4) -C (0) -O-alquilo- (C.-C.), halo, ciano, -C (=O) NH2, alquilo (C.-C4), alcoxi (C:-C, haloalquilo (C.-C.), hidroxi e hidroxi alquilo IC.-C.), o b; alquilo (C -CJ opcionalmente sustituido con 1 o 2 sustituyentes independientemente seleccionados entre el grupo formado por un grupo hidroxi, acido carboxilico, -C (=O)-Oalquilo (C.-C.), fenilo, naftilo, heteroarilo o cicloalquilo (C.-C.), en que dichos grupos fenilo, naftilo, heteroarilo y cicloalquilo (C.-Cs) estan opcionalmente sustituidos con 1 a 3 sustituyentes cada uno seleccionado independientemente entre el grupo formado por acido carboxilico (-COOH), C (=O) Oalquilo {C-C4), halo, ciano, C t =0) NH., alquilo (C.-CJ, alcoxi (C.-C.), haloalquilo (C -CJ, hidroxi e hidroxi alquilo (C.-C4), o, si es apropiado, sus sales y/o isomeros, tautomeros, solvatos, polimorfos, variaciones isotopicas y metabolitos farmacologicamente aceptables del mismo, con la condicion que: 1:: cuando: ? R se selecciona entre el grupo formado por atomo de hidrogeno, halo y metilo •Iss R es un atomo de hidrogeno, I X es -O-, # R. es un fenilo sustituido con un tioalquilo (C,-C4) en la posicion 3 o 4 de dicho fenilo y esta tambien opcionalmente sustituido con 1 sustituyente seleccionado entre el grupo formado por halo, alquilo (C.-CJ y alcoxi (C.-C.), ss> Y es una formula parcial -1.5) o i: 8; (1.5) (1.8) en la que el simbolo "ss" indica el punto de union de cada formula parcial a las porciones -NH- restantes de formula (1) y "****" indica el punto de union de cada formula parcial a las porciones Z restantes de formula (II, y en que R es un miembro seleccionado entre los grupos formados por alquilo (C.-C.,; y alquil (C.-C.) -feniio, en que dicho grupo feniio esta opcionalmente sustituido con halo, alquilo (C.-C.), alcoxi (C.-C.) o hidroxi, y I Z es un radical -C(=O)- entonces R. no puede ser: a: un cicloalquilo (C.-CJ opcionalmente sustituido con alquilo £ C.-C.), b, un fenilo o un anillo heterociclico de 5 o 6 miembros que incorpora 1 a 3 heteroatomos (s) seleccionados (s) independientemente entre N, O y S, cuyo fenilo y anillo heterociclico estan cada uno opcionalmente sustituidos con hidroxi, halo, alquilo (C.-C.) o alcoxi (C.-C.), o c; un alquilo (C.-C.) opcionalmente sustituido con un hidroxi, o con un fenilo o un anillo heterociclico de 5 o 6 miembros que incorpora 1 a 3 heteroatomos (s) seleccionados (s) independientemente entre N, O y S, cuyo fenilo y anillo heterociclico esta cada uno opcionalmente sustituido con hidroxi, halo, alquilo (C.-CJ o alcoxi (C.-C J, 2; y cuando: I R se selecciona entre el grupo formado por un atomo de hidrogeno, halo y metilo, ? R es un atomo de hidrogeno, •tss X es -O-, ssiss R es un fenilo sustituido con un tioalquilo (C.-CJ en la posicion 3 o 4 de dicho fenilo y esta tambien opcionalmente sustituido con 1 sustituyente seleccionado entre el grupo formado por halo, alquilo ; C.-C.) y alcoxi (C -C., y ?Iss Y-Z representa una formula parcial -1.16;: O NH ** en la que el simbolo "ss" indica el punto de union de la 5 formula parcial (1.16) a las porciones -NH- restantes de formula (1) y "****" indica el punto de union de la formula parcial (1.16) a las porciones -R. restantes de formula ; 1:, entonces R. no puede ser: 10 a) un cicloalquilo (C.-CJ o b; un alquilo (C.-C/' opcionalmente sustituido con un fenilo o un anillo heterociclico de 5 o 6 miembros que incorpora 1 a 3 heteroatomos (s) seleccionados independientemente entre N, O y S, cuyo fenilo y anillo heterociclico 15 estan cada uno opcionalmente sustituidos con hidroxi, halo, alquilo (C.-C.) o alcoxi (C;-C.), 3' y cuando: ss> R se selecciona entre el grupo formado por atomo de hidrogeno, halo y metilo, 2 0 ss> R es un atomo de hidrogeno, < X es -O-, I R es un fenilo sustituido con un tioalquilo (C.-C4) en la posicion 3 o 4 de dicho fenilo y esta tambien opcionalmente sustituido con 1 o 2 sustituyentes (s) cada uno -5 independientemente seleccionado entre el grupo formado por halo, alquilo C -C y alcoxi (C -C.), y Y es una formula parcial (1.6): en la que el simbolo "ss" indica el punto de union de cada formula parcial a las porciones -NH- restantes de formula i 1) y " ***" indica el punto de union de cada formula parcial a las porciones Z restantes de formula (1), y Z es un radical -C (0) -, entonces R, no puede ser un alquilo (C.-CJ opcionalmente sustituido con un hidroxi, o con un anillo heterociclico de 5 o 6 miembros que incorpora 1 a 3 heteroatomos (s) seleccionado (s) independientemente entre N, O y S. **Machine translation:** [Source: Claim 1] 1. A compound of formula (1): OR R ss (1) in which R1 and R3 are each independently a Member <- is selected from the group consisting of hydrogen atom, halo, cyano, (c) and (c1-c6) alkoxy, -c -c), "tss x is -O-, -s- or -nh -, i r, is a member selected from the groups consisting of: (a) phenyl, naphthyl, heteroaryl and cycloalkyl (c,-cj, each optionally substituted with 1 to 3 substituents each selected independently from the group consisting of halo, cyano, trifluoromethyl, trifluoroethyl, trifluoromethoxy, trifluoroethoxy, trif, (c--c4), to the coxiic.-cj, thioalkyl {c ----- c4}, -c(=O)nh2, -c(=O)nh- alkyl, hydroxy, c c. -O-c (=O) alkyl (c.-c.), -c (=O)-o-alkyl i c - c } and hydroxyalkyl (c-c), (c.-c., and cycloalkyloxy'c.-c.), or bicyclic groups ;b according to one of the following- tes (1.4): in which structures 1.1 to the symbol indicates the point of attachment of each partial formula (1.1) to (1.4) to the remaining portion of formula (1);, ssiss and is a member selected from the group formed by the partial formulae (1.5) (1.8) (1.5) (1.8) (1-6): (1.7) in which the symbol "ss" indicates the point of attachment of each partial formula (1.5) to (1.8) to the -nh- of formula (1) remaining portions and "ss ss" indicates the point of attachment of each partial formula (1.5) to (1.8) to the portions the remaining z of formula (1), and in that r is a member selected from the groups consisting of alkyl (c;-c;) and alkyl ic.-c.) -group feniio feniio, wherein said group is optionally substituted with 1 to 3 substituents each independently- selected from the group consisting of halo, cyano, c1-c4 alky- the 'c -c, alkoxy (c.-c.), hydroxy, hydroxyalkyl (c:-c.), carboxylic acid, -c! =0 !-cooh); -o-alquilo i C.-C.), c1-c6haloalkyl, -c: and -c 10 i.c) nh., *** z is a member selected from the group formed by the partial formulae '1.9. to 1.15: the symbol "ss" indicates the point of attachment of ca- partial formula (1.9) to (1.15) to the portions and res- of formula (1) and "ss ss" indicates the point of attachment of each partial formula (1.9) to (1.15) to the portions remaining of formula (1), r. ss or alternatively y-z together represents a group of formula (1.16: nh wherein the symbol indicates the point of attachment of the partial formula (1.16) -nh- of formula 1 portions remaining ss and "ss" indicates the point of attachment of the partial formula 1.16 to the remaining portions of formula "iss and r -r is a member selected from the group consisting of naftiio feniio,, heteroaryl and cycloalkyl; ic.-c., each optionally substituted with 1 to 3 substituents each independently selected from the group consisting of carboxylic acid (-cooh), -c(=O)-o-alkyl- (c-c, c-c4)-alkyl) -cooh, -c-c4)-alkyl (c: (0) -O (c--c.)-alkyl-, halo, cyano, -c (=O) nh2, c1-c4 alkyl, (c1-c6)alkoxy(c-c4)-alkyl, haloalkyl, (c-c, c:-), hydroxy, and hydroxyalkyl ic.-c.), or;b(c -cj optionally substituted with 1 or 2 substituents independently selected from the group consisting of a hydroxy group, carboxylic acid, -c(=O)-o-alkyl (c.-c.), phenyl, naphthyl, heteroaryl, or c1-cloalquilo (c.-c.), wherein said phenyl, naphthyl, heteroaryl and cycloalkyl (c1-cs) are optionally substituted with 1 to 3 substituents each independently selected from the group consisting of carboxilico (-c00h), c (=O) {c-c4-alkyl, halo, cyano, c t =0) nh, alkyl, (c.-cj, (1-4c)alkoxy, (c.-c.), c1-c6haloalkyl, (c -cj, hydroxy, and hydroxyalkyl (c.-c4), or, if appropriate, their salts and/or isomers, tautomers, solvates, polymorphs, isotopic variations and metabolites pharmaceutically acceptable salts thereof, with the proviso that: 1: when: ? R is selected from the group consisting of hydrogen atom, halo, and methyl •Iss r is a hydrogen atom, x is -O-, # r. is a phenyl substituted with a (c1-c4 thioalkyl) at position 3 or 4 of said phenyl and is optionally substituted with substituyente 1 also selected from the group consisting of halo, c1-4 alkyl, -cj and alkoxy (c. (c.-c.), ss> and

is a partial formula -1.5) or i.8; (1.5) (1.8) in which the symbol "ss" indicates the point of attachment of each partial formula -NH- remaining portions of formula (1) and "*" indicates the point of attachment of each pair to the portions remaining Z- formula of formula (II, and In which R is a member selected from the groups consisting of alkyl (C.-C.; and, (C) -C, -phenyl, wherein said phenyl group is optionally substituted with halo, (C), (1-4c)alkoxy, (quilo -C, C.-C,) or hydroxy, and I Z is a radical -C(= 0)- then R. cannot be: a: a cycloalkyl(C,-CJ optionally substituted with alkyl £ C--C,), b, a phenyl or a heterocyclic ring of 5 or 6 members 1 to 3 incorporating heteroatom(s) selected from N, 0- pendentemente (s) and S, which ring Hete- roclíco and phenyl are each optionally substituted with hydroxy, halo, alkyl, alkoxy or (C) (C.-C,-C,), or c; a C1-C4)alkyl, optionally substituted with a hydroxy--C', or with a Phenyl or a 5 or 6 membered heterocyclic ring members that incorporates 1 to 3 heteroatom(s) selected from N, 0- is) and S, which phenyl and heterocyclic ring are each optionally replace- tuted with hydroxy, halo, alkyl or alkoxy-CJ (C. (C. -C J, 2: I; and when R is selected from the group consisting of a hydrogen atom, halo and methyl, ? R is a hydrogen atom, "tss X is -0 -, ss1ss R is a phenyl substituted with a thio-CJ in position 3 or 4 (C. of said phenyl and is optionally substituted with 1 also substituent selected from the group consisting of halo, C1-C6 alkyl; C -C,) and alkoxy | (C -C,, and ?Iss and Z represents a partial formula: -1.16; OR NH ** in the that the symbol "ss" indicates the point of attachment of the partial formula 5 (1.16) to the portions of formula (1) and remaining -NH- "*" indicates the point of attachment of the partial formula (1.16) to the remaining portions of formula |.; then 1-R. R.: 10 a) cannot be a cycloalkyl (C.-CJ or b; an alkyl (C-C/' is optionally substituted by a fe- or a heterocyclic ring of 5 or 6 members Nile which 1 to 3 heteroatom(s) selected corpora independently from N, 0 and S, phenyl and heterocyclic ring 15 which are each optionally substituted with hydroxy, halo, alkyl, alkoxy or (C) (C.-C;-C,), 3' and when: ss> R is selected from the group consisting of hydrogen atom, halo, and methyl, R is a hydrogen atom 20 ss>, < X is -0-, I R is a phenyl group substituted with a C4-thioalkyl (C. - 3 or 4) in the position of said phenyl and is optionally substituted with 1 or 2 also sustituyente (s) each One -5 independently selected from the group consisting of halo, C1-4 alkyl, (C1-C6) alkoxy -c and -C,), and is a partial formula (1.6): in which the symbol "ss" indicates the point of attachment of each partial formula -NH- remaining portions of formula i 1) and "*" indicates the point of attachment of each pair- formula to the portions remaining of formula (1) Z, and Z is a radical -C(0) -, then R, may not be an alkyl (optionally substituted with a hydroxy-CJ, a heterocyclic ring of 5 or 6 or 1 to 3 members that incorporates heteroatom(s) is (s) selected from N, 0- and S.

Classifications:

Family:

Publication number	Publication date	Application number	Application date
DOP2003000586 A	20030815	DO20030000586	20030211

Priority:

DO20030000586 20030211

Probable Assignee: PFIZER

Assignee(s): (std): PFIZER

Assignee(s): PFIZER INC

Inventor(s): (std): BAILEY SIMON ; GAUTIER ELISABETH COLETTE LOUISE ; HENDERSON ALAN JOHN ; MAGEE THOMAS VICTOR ; MARFAT ANTHONY ; MATHIAS JOHN PAUL ; MCLEOD DALE GORDON ; MONAGHAN SANDRA MARINA ; STAMMEN BLANDA LUZIA CHRISTA

Inventor(s): THOMAS VICTOR MAGEE ; SANDRA MARINA MONAGHAN ; SIMON BAILEY ; JOHN PAUL MATHIAS ; ALAN JOHN HENDERSON ; ANTHONY MARFAT ; BLANDA LUZIA CHRISTA STAMMEN ; DALE GORDON MCLEOD ; ELISABETH COLETTE LOUISE GAUTIER

Title: USE OF 2-AMINO-2H-QUINAZOLINE DERIVATIVES FOR PRODUCING THERAPEUTIC AGENTS

Abstract: The invention concerns the use of 2-amino-2H-quinazoline derivatives of general chemical formula (I), wherein R1 indicates an alkyl group with 1-5 carbon atoms and R2, R3, R4 and R5, independently of one another, each indicate a chlorine or hydrogen atom, as well as their pharmaceutically compatible salts, for producing therapeutic agents for the treatment of myeloproliferative diseases, high blood pressure and for bronchodilation.

Classifications:

International (ipc 8-9): A61K31/4965 A61K31/497 A61K31/498 A61K31/506 A61K31/517 A61K31/5355 A61K31/5377 A61K31/541 A61K31/55 A61P1/00 A61P11/00 A61P11/08 A61P13/08 A61P17/00 A61P19/02 A61P21/04 A61P29/00 A61P31/18 A61P35/00 A61P37/02 A61P37/08 A61P43/00 A61P7/00 A61P7/06 A61P9/10 A61P9/12 C07D239/84 C07D241/18 C07D241/20 C07D241/26 C07D241/28 C07D265/36 C07D279/12 C07D279/16 C07D401/04 C07D401/06 C07D401/12 C07D401/14 C07D403/02 C07D403/04 C07D403/08 C07D403/10 C07D403/12 C07D405/04 C07D405/12 C07D409/04 C07D409/12 C07D411/12 C07D413/04 C07D413/12 C07D413/14 C07D417/12 C07D419/12 (Advanced/Invention);

A61K31/44 A61K31/519 A61P35/00 C07D305/12 C07D307/79 (Advanced/Non-invention); A61K31/4965 A61K31/498 A61K31/506 A61K31/517 A61K31/5375 A61P1/00 A61P11/00 A61P13/00 A61P17/00 A61P19/00 A61P21/00 A61P29/00 A61P31/00 A61P35/00 A61P37/00 A61P43/00 A61P7/00 A61P9/00 C07D241/00 C07D401/00 C07D403/00 C07D405/00 C07D409/00 C07D413/00 C07D417/00 (Core/Invention); A61K31/519 (Core/Non-invention)

International (ipc 1-7): A61K31/4965 A61K31/497 A61K31/498 A61K31/506 A61K31/517 A61K31/5377 A61K31/55 A61P1/00 A61P11/00 A61P13/08 A61P17/00 A61P19/02 A61P21/04 A61P29/00 A61P31/18 A61P35/00 A61P37/02 A61P37/08 A61P43/00 A61P7/00 A61P7/02 A61P7/06 A61P9/10 A61P9/12 C07D239/84 C07D241/26 C07D241/28 C07D401/04 C07D401/06 C07D401/12 C07D401/14 C07D403/04 C07D403/08 C07D403/12 C07D405/04 C07D405/12 C07D409/04 C07D409/12 C07D413/04 C07D413/14 C07D417/12 C07K

CPC: C07D401/04 C07D241/26 C07D401/12 C07D401/14 C07D403/04 C07D403/10 C07D403/12 C07D405/12 C07D413/04 C07D413/12 C07D413/14 A61K31/517 C07D401/10 C07D403/14 C07D405/04

European: A61K31/517 C07D241/26 C07D401/04 C07D401/10 C07D401/12 C07D401/14 C07D403/04 C07D403/10 C07D403/12 C07D403/14 C07D405/04 C07D405/12 C07D413/04 C07D413/12 C07D413/14

US: 514/217.05 514/227.8 514/230.5 514/235.8 514/252.11 514/252.13 514/255.05 514/255.050P 514/255.06 514/266.4 514/352 540/598 544/105 544/120 544/295 544/405 544/405S 544/407 544/58.6 544/60 546/309 546/311 549/310

Family:

Publication number	Publication date	Application number	Application date
AT346844 E	20061215	AT20040700454T	20040107
AU2003234464 AA	20031117	AU20030234464	20030502
AU2003234464 BB	20090604	AU20030234464	20030502
AU2004203910 AA	20040729	AU20040203910	20040107
AU2004203910 AH	20050818	AU20040203910	20040107
AU2004203910 BB	20080731	AU20040203910	20040107
CA2484209 AA	20041101	CA20032484209	20030502
CA2484209 C	20130611	CA20032484209	20030502
CA2512999 AA	20050708	CA20042512999	20040107
DE10301105 A1	20040722	DE20031001105	20030109
DE10301105 B4	20051124	DE20031001105	20030109
DE502004002171 D1	20070111	DE200450002171T	20040107
DE60342897 D1	20130307	DE20036042897	20030502
EP1501514 A2	20050202	EP20030728690	20030502
EP1501514 A4	20090826	EP20030728690	20030502
EP1501514 B1	20121219	EP20030728690	20030502
EP1581506 A1	20051005	EP20040700454	20040107
EP1581506 B1	20061129	EP20040700454	20040107
ES2278297 T3	20070801	ES20040700454T	20040107
JP2005530760 T2	20051013	JP20040501436T	20030502
JP2006516565 T2	20060706	JP20060500528T	20040107
JP4901102 B2	20120321	JP20040501436T	20030502
NZ541049 A	20090131	NZ20040541049	20040107
US2006148832 AA	20060706	US20050541535	20050709
US2006211709 AA	20060921	US20030513081	20030502
US7704995 BB	20100427	US20030513081	20030502
WO03093297 A2	20031113	WO2003US13869	20030502
WO03093297 A3	20040701	WO2003US13869	20030502
WO04063172 A1	20040729	WO2004EP00054	20040107

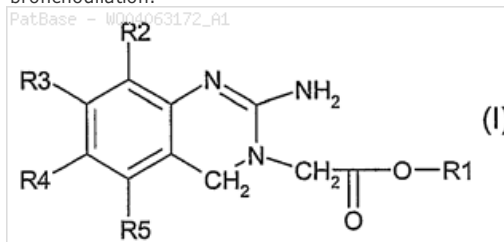
Priority:

US20020377933P 20020503 DE20031001105 20030109 EP20030728690 20030502
 WO2003US13869 20030502 US20030513081 20030502 WO2004EP00054 20040107
 US20050513081 20050727

Probable Assignee: EXELIXIS INC

Assignee(s): (std): CHEMISCH PHARMAZEUTISCHES LABO ; CHEMISCH PHARMAZEU TISCHES LABOR ROLF SACHSE ; EXELIXIS INC ; EPSHTEYN SERGEY ; KENNEDY ABIGAIL R ; DUBENKO LARISA ; IBRAHIM MOHAMED A ; LEAHY JAMES W ; DALRYMPLE LISA E ; FORSYTH TIMOTHY P ; HUYNH TAI P ; SACHSE ROLF ; MA SUNGHOON ; TESFAI ZEROM ; WANG LONGCHENG ; TSANG TSZE H ; NUSS JOHN M ; PETO CSABAJ ; RICE KENNETH D ; SHI XIAN ; MANN GRACE ; MANN LARRY W ; TAKEUCHI CRAIG S ; ANAND NEEL K ; BAIK TAE GON ; BUHR CHRIS A ; CHEMISCH PHARMAZEU TISCHES LAB ; CO ERICK W ; CHEN BAILI ; CHEN JEFF

Assignee(s): CHEMISCH PHARMAZEUTISCHES LABOR ROLF SACHSE GMBH ; CHEMISCH PHARMAZEU TISCHES LABOR ROLF SACHSE GMBH ; ANAND NEEL KUMAR ; SMITHKLINE BEECHAM CORP ; SMITHKLINE BEECHAM D B A GLAXOSMITHKLINE CORP ; PETO CSABA J ; LEAHY JAMES WILLIAM ; TAKEUCHI CRAIG STACY ; SCHNEPP KEVIN LUKE ; MANN LARRY WAYNE ; DALRYMPLE LISA ESTHER ; CO ERICK WANG ; HUYNH TAI PHAT ; FORSYTH TIMOTHY PATRICK ; IBRAHIM MOHAMED ABDULKADER ; EXELIXIS INC SOUTH SAN FRANCISCO



Inventor(s): (std): BAIK TAE GON ; BUHR CHRIS A ; FORSYTH TIMOTHY PATRICK ; LAMB PETER ; MANN LARRY WAYNE ; MATTHEWS DAVID J ; MILLER NICOLE ; ROLF SACHSE ; SACHSE ROLF ; TAKEUCHI CRAIG S ; PETO CSABAJ ; MANN LARRY W ; LEAHY JAMES W ; IBRAHIM MOHAMED A ; HUYNH TAI P ; FORSYTH TIMOTHY P ; DALRYMPLE LISA E ; CO ERICK W ; ANAND NEEL K ; ZEROM TESFAI ; XIAN SHI ; TSZE H TSANG ; TAI PHAT HUYNH ; TAE GON BAIK ; SUNGHOON MA ; SERGEY EPSHTEYN ; NEEL KUMAR ANAND ; MOHAMED ABDULKADER IBRAHIM ; THIMOTHY PATRICK FORSYTH ; LONGCHENG WANG ; LISA ESTHER DALRYMPLE ; LARY WAYNE MANN ; LARISA DUBENKO ; KEVIN LUKE SCHNEPP ; KENNETH D RICE ; JOHN M NUSS ; JEFF CHEN ; JAMES WILLIAM LEAHY ; ERICK WANG CO ; GRACE MANN ; CSABA J PETO ; CRAIG STACY TAKEUCHI ; ABIGAIL R KENNEDY ; WANG LONGCHENG ; TSANG TSZE H ; TESFAI ZEROM ; TAKEUCHI CRAIG STACY ; SHI XIAN ; SCHNEPP KEVIN LUKE ; RICE KENNETH D ; PETO CSABA J ; NUSS JOHN M ; MANN LARY WAYNE ; MANN GRACE ; MA SUNGHOON ; LEAHY JAMES WILLIAM ; KENNEDY ABIGAIL R ; IBRAHIM MOHAMED ABDULKADER ; HUYNH TAI PHAT ; FORSYTH TIMOTHY PATRICK ; EPSHTEYN SERGEY ; DUBENKO LARISA ; DALRYMPLE LISA ESTHER ; CO ERICK WANG ; CHEN JEFF ; CHEN BAILI ; ANAND NEEL KUMAR ; CHRIS A BUHR ; BAILI CHEN

Inventor(s): BAIK TAE GON FOSTER CITY ; ANAND NEEL KUMAR SAN MATEO ; CHEN JEFF SAN FRANCISCO ; CHEN BAILI PALO ALTO ; BUHR CHRIS A REDWOOD CITY ; CO ERICK WANG REDWOOD CITY ; FORSYTH TIMOTHY PATRICK SAN MATEO ; EPSHTEYN SERGEY FREMONT ; DUBENKO LARISA SAN FRANCISCO ; DALRYMPLE LISA ESTHER SAN FRANCISCO ; IBRAHIM MOHAMED ABDULKADER MOUNTAIN VIEW ; HUYNH TAI PHAT OAKLAND ; KENNEDY ABIGAIL R TRACY ; LEAHY JAMES WILLIAM SAN LEANDRO ; TESFAI ZEROM CASTRO VALLEY ; TAKEUCHI CRAIG STACY BURLINGAME ; MANN LARY WAYNE REDWOOD CITY ; MANN GRACE BRISBANE ; MA SUNGHOON FOSTER CITY ; SCHNEPP KEVIN LUKE ELK GROVE ; RICE KENNETH D MILL VALLEY ; PETO CSABA J ALAMEDA ; NUSS JOHN M DANVILLE ; SHI XIAN SAN MATEO ; TSANG TSZE H EL CERRITO ; WANG LONGCHENG SOUTH SAN FRANCISCO ; ANAND NEEL ; CO ERICK ; BUHR CHRIS ; DALRYMPLE LISA ; FORSYTH TIMOTHY ; HUYNH TAI ; IBRAHIM MOHAMED ; LEAHY JAMES ; KENNEDY ABIGAIL ; MANN LARRY ; TSANG TSZE ; TAKEUCHI CRAIG ; NUSS JOHN ; RICE KENNETH

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; PIZZEYS PATENT AND TRADE MARK ATTORNEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; BENNETT JONES LLP; MACRAE AND CO; MURGITROYD AND CO; MAIN MALCOLM CHARLES; KRIEGSMAN AND KRIEGSMAN; MCDONNELL BOEHNNEN HULBERT AND BERGHOFF LLP; ROBERT L

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: RECEPTOR-TYPE KINASE MODULATORS AND METHODS OF USE

Abstract: The present invention provides compounds for modulating receptor kinase activity, particularly ephrin and EGFR, and methods of treating diseases mediated by receptor kinase activity utilizing the compounds and pharmaceutical compositions thereof. Diseases mediated by receptor kinase activity include, but are not limited to, diseases characterized in part by abnormal levels of cell proliferation (i.e. tumor growth), programmed cell death (apoptosis), cell migration and invasion and angiogenesis associated with tumor growth. Compounds of the invention include "spectrum selective" kinase modulators, compounds that inhibit, regulate and/or modulate signal transduction across subfamilies of receptor-type tyrosine kinases, including ephrin and EGFR.

Classifications:

International (IPC 8-9): A01N43/00 A01N43/54 A61K31/33 A61K31/505 A61K31/506 A61K31/51 A61K31/517 A61K31/53 A61K31/5377 A61K31/538 A61K31/5383 A61K31/55 A61K31/5513 A61K31/553 A61K31/70 A61K31/7064 A61P1/04 A61P17/06 A61P19/02 A61P25/00 A61P27/02 A61P29/00 A61P35/00 A61P37/06 A61P43/00 A61P9/00 A61P9/10 C07D209/52 C07D239/72 C07D239/88 C07D239/93 C07D239/94 C07D401/00 C07D401/06 C07D401/12 C07D403/00 C07D403/06 C07D403/12 C07D405/12 C07D409/12 C07D413/00 C07D413/12 C07D413/14 C07D417/00 C07D417/12 C07D417/14 C07D419/00 C07D451/02 C07D451/04 C07D451/06 C07D471/04 C07D487/04 C07D493/04 C07D493/14 C07D493/20 C07D495/04 C07D498/04 C07D513/04 C07H17/02 (Advanced/Invention);

A61K31/51 A61K31/53 A61K31/55 A61K31/70 (Core/Invention)

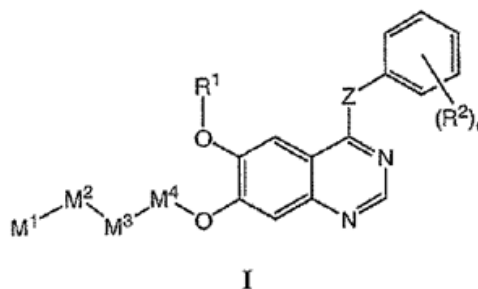
International (IPC 1-7): A61K31/517 A61P35/00 C07D239/93 C07D239/94 C07D401/06 C07D401/12 C07D403/06 C07D403/12

CPC: C07D239/94 C07D401/12 C07D405/12 C07D413/12 C07D417/12 C07D451/06 C07D471/04 C07D487/04 C07D493/04 A61K31/517 A61K31/5383 A61K31/5377 A61K31/553 A61K31/5513 C07D403/12 A61K31/7064

European: C07D239/94 C07D401/12 C07D403/12 C07D405/12 C07D413/12 C07D417/12 C07D451/06 C07D471/04 C07D487/04 C07D493/04 C07D498/04

US: 1/1 435/375 514/183 514/211.15 514/218 514/230.5 514/230.500S 514/234.5 514/249 514/25 514/252.17 514/25P 514/266.1 514/266.2 514/266.200S 514/266.21 514/266.22 514/266.24 514/266.3 514/266.300S 514/266.4 514/266.400S 536/17.4 536/17.400S 544/105 544/105S 544/283 544/284 544/284S 544/287 544/287S 544/293 544/293S

PatBase - JP2011079844_A2

**Family:**

Publication number	Publication date	Application number	Application date
AU2003249212 AA	20040202	AU20030249212	20030714
AU2003249212 BB	20100701	AU20030249212	20030714
AU2003249212 CA	20111027	AU20030249212	20030714
AU2010226916 AA	20101028	AU20100226916	20101001
AU2010226916 BB	20130516	AU20100226916	20101001
CA2491191 AA	20041229	CA20032491191	20030714
CA2491191 C	20140204	CA20032491191	20030714
DE60342806 D1	20130131	DE20036042806	20030714
DE60345963 D1	20140515	DE20036045963	20030714
EP1521747 A2	20050413	EP20030764599	20030714
EP1521747 A4	20061011	EP20030764599	20030714
EP2277867 A2	20110126	EP20100183590	20030714
EP2277867 A3	20110323	EP20100183590	20030714
EP2277867 B1	20121205	EP20100183590	20030714
EP2280003 A2	20110202	EP20100184164	20030714
EP2280003 A3	20110330	EP20100184164	20030714
EP2280003 B1	20140402	EP20100184164	20030714
ES2400339 T3	20130409	ES20100183590T	20030714
JP2006505509 T2	20060216	JP20040521770T	20030714
JP2011079844 A2	20110421	JP20100259281	20101119
JP4703183 B2	20110615	JP20040521770T	20030714
US2006069077 AA	20060330	US20030522004	20030714
US2009318373 AA	20091224	US20090455867	20090608
US2014155418 AA	20140605	US20130060123	20131022
US2016129032 AA	20160512	US20150845763	20150904
US2018118724 AA	20180503	US20180692445	20180115
US7576074 BB	20090818	US20030522004	20030714
US8658654 BB	20140225	US20090455867	20090608
US9163006 BB	20151020	US20130060123	20131022
US9359332 BB	20160607	US20130060123	20131022
US9796704 BB	20171024	US20150845763	20150904
WO04006846 A2	20040122	WO2003US21923	20030714
WO04006846 A3	20040715	WO2003US21923	20030714

Priority:

US20020396269P	20020715	US20030447212P	20030213	AU20030249212	20030714
EP20030764599	20030714	US20030522004	20030714	JP20040521770	20030714
EP20100184164	20030714	EP20100183590	20030714	WO2003US21923	20030714
US20050522004	20050411	US20090455867	20090608	AU20100226916	20101001
US20130060123	20131022	US20150845763	20150904	US20180692445	20180115

Probable Assignee: SYMPHONY EVOLUTION INC

Assignee(s): (std): COSTANZA SIMONA ; COSTANZO SIMONA ; EXELIXIS INC ; RICE KENNETH D ; KENNEDY ABIGAIL R ; KIM ANGIE I ; PETO CSABA J ; TSANG TSZE H ; ANAND NEEL K ; ANAND NEEL KUMAR ; BLAZEY CHARLES M ; BUSSENIUS JOERG ; SYMPHONY EVOLUTION INC

Assignee(s): MACQUARIE US TRADING LLC ; KADMON LLC CORP ; PERCEPTIVE CREDIT OPPORTUNITIES FUND LP ; SYMPHONY EVOLUTION INC ROCKVILLE ; CORTLAND CAPITAL MARKET SERVICES LLC ADMINISTRATIV ; CORTLAND CAPITAL MARKET SERVICES LLC ADMINISTRATIVE AGENT AS ; SMITHKLINE BEECHAM CORP

Inventor(s): (std): BUSSENIUS JOERG ; COSTANZA SIMONA ; COSTANZO SIMONA ; KENNEDY ABIGAIL R ; ANAND NEEL K ; ANAND NEEL KUMAR ; RICE KENNETH D ; TSANG TSZE H ; SIMONA COSTANZO ; SIMONA COSTANZA ; TSZE H TSANG ; PETO CSABE J ; PETO CSABA J ; NEEL KUMAR ANAND ; KUMAR ANAND NEEL ; KIM ANGIE I ; KENNETH D RICE ; JOERG BUSSENIUS ; CSABA J PETO ; CHARLES M BLAZEY ; BLAZEY CHARLES M ; ANGIE I KIM ; ABIGAIL R KENNEDY

Inventor(s): ANAND NEEL ; ANAND NEEL KUMAR SAN MATEO ; BUSSENIUS JOERG FOSTER CITY ; BLAZEY CHARLES M SAN FRANCISCO ; COSTANZA SIMONA ATHERTON ; KENNEDY ABIGAIL R OAKLAND ; KIM ANGIE I SAN MATEO ; PETO CSABA J ALAMEDA ; TSANG TSZE H EL CERRITO ; RICE KENNETH D SAN RAFAEL ; RICE KENNETH D MILL VALLEY ; TSANG TSZE ; BLAZEY CHARLES ; KIM ANGIE ; PETO CSABA ; PETO CSABE J ALAMEDA ; RICE KENNETH ; KENNEDY ABIGAIL

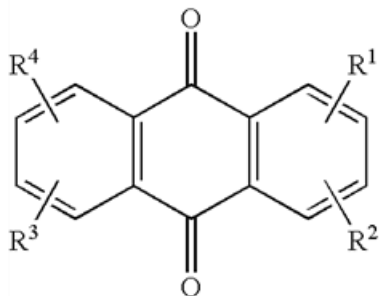
Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; BENNETT JONES LLP; MURGITROYD AND CO; THOMSON JAMES B; DE ELZABURU ALBERTO; MCDONNELL BOEHNEN HULBERT AND BERGHOFF LLP; JANICE V

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

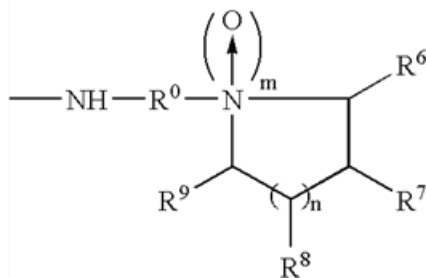
Title: ANTHRAQUINONE COMPOUNDS AS ANTI CANCER COMPOUNDS

Abstract: Anthraquinone compounds of the general formula (I) or a salt thereof (Formula I) in which R^1 to R^4 are each selected from the group consisting of H, C_{1-4} alkyl, X^1 , $-NHR^0N(R^5)_2$ in which R degrees is a C_{1-12} alkanediyl and each R^5 is H or optionally substituted C_{1-4} alkyl, and a group of formula (11) in which at least one of R^6, R^7 and R^8 is selected from X^2 , and X^2 substituted C_{1-4} alkyl and any others are H or C_{1-4} alkyl; R^9 is selected from H, C_{1-4} alkyl, X^2 and X^2 substituted C_{1-4} alkyl; m is 0 or 1; n is 1 or 2; X^1 is a halogen atom, a hydroxyl group, a C_{1-6} alkoxy group, an aryloxy group or an acyloxy group; and X^2 is a halogen atom, a hydroxyl group, a C_{1-6} alkoxy group, an aryloxy group or an acyloxy group; provided that at least one of R^1 to R^4 is a group of formula (II). The N-oxides are useful prodrugs which are selectively bio-reduced in hypoxic tumours to the corresponding cyclic amine derivatives. The amine compounds are cytotoxic and may be used as alkylating agents having topoisomerase II inhibiting activities in cancer therapy.

(I)



(II)

**Classifications:**

International (IPC 8-9): A61K31/40 A61K31/445 A61K31/4462 A61K31/4465 A61K31/4545 A61P35/00 C07D207/04 C07D207/06 C07D207/08 C07D207/10 C07D207/12 C07D207/46 C07D211/00 C07D211/18 C07D211/22 C07D211/38 C07D211/46 C07D211/94 (Advanced/Invention);

C07D207/00 C07D211/00 (Core/Invention);

A61K A61P C07D (Subclass/Invention)

International (IPC 1-7): A61K31/445 A61P35/00 C07D207/06 C07D207/08 C07D207/10 C07D207/12 C07D207/46 C07D211/18 C07D211/22 C07D211/38 C07D211/46 C07D211/94

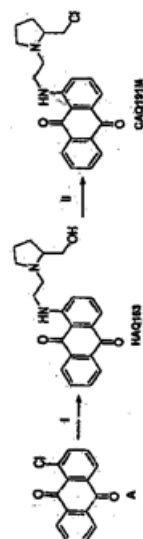
CPC: C07D207/06 C07D207/08 C07D207/10 C07D207/12 C07D207/46 C07D211/18 C07D211/22 C07D211/38 C07D211/46 C07D211/94

European: C07D207/06 C07D207/08 C07D207/10 C07D207/12 C07D207/46 C07D211/18 C07D211/22 C07D211/38 C07D211/46 C07D211/94

US: 514/325 514/428 514/428S 546/204 546/204S 546/246 548/528 548/528S 548/569

PatBase - US2008027107_AA

Parent Application Publication Jan. 31, 2008 Sheet 1 of 4 US 2008/0027107 A1



Scheme 2

Family:

Publication number	Publication date	Application number	Application date
AT423767 E	20090315	AT20040806187T	20041222
AU2004303592 AA	20050707	AU20040303592	20041222
AU2004303592 BB	20090212	AU20040303592	20041222
CA2550839 AA	20060621	CA20042550839	20041222
CN1934079 A	20070321	CN200480041751	20041222
DE602004019687 D1	20090409	DE200460019687T	20041222
EP1701939 A1	20060920	EP20040806187	20041222

EP1701939 B1	20090225	EP20040806187	20041222
GB200329820 A0	20040128	GB20030029820	20031223
GB200330011 A0	20040128	GB20030030011	20031224
HK1102227 A3	20071109	HK20070110266	20070921
IN03556DN2006 A	20070810	IN2006DN03556	20060620
JP2007516270 T2	20070621	JP20060546313T	20041222
US2008027107 AA	20080131	US20040596783	20041222
US7557215 BB	20090707	US20040596783	20041222
WO05061453 A1	20050707	WO2004GB05390	20041222
ZA200605474 A	20071128	ZA20060005474	20041222

Priority:

GB20030029820 20031223 GB20030030011 20031224 WO2004GB05390 20041222

Probable Assignee: SOMANTA LTD

Assignee(s): (std): SCHOOL OF PHARMACY UNIVERS ; SCHOOL OF PHARMACY UNIVERSITY OF LONDON ; UNIV LONDON PHARMACY ; TEESDALE SPITTLE PAUL HENRY ; SOMANTA LTD ; SOMANTA LIMITED ; PATTERSON LAURENCE HYLTON ; PORS KLAUS ; SCHOOL OF PHARMACY THE UNIVERS

Assignee(s): SCHOOL OF PHARMACY THE UNIVERSITY OF LONDON ; SCHOOL OF PHARMACY UNIV LONDON ; SCHOOL OF PHARMACY UNIV OF LONDON

Inventor(s): (std): TEESDALE SPITTLE PAUL HENRY ; TEESDALE SPITTLE PAUL ; PORS KLAUS ; PATTERSON LAURENCE HYLTON ; PATTERSON LAURENCE ; PAUL HENRY TEESDALE SPITTLE ; LAURENCE HYLTON PATTERSON ; KLAUS PORS ; HYLTON PATTERSON LAURENCE ; HENRY TEESDALE SPITTLE PAUL ; HENRY PATTERSON LAURENCE HYLTO

Inventor(s): PATTERSON LAURENCE HYLTON PORS KLAUS TEESDALE ; PATTERSON LAURENCE HYLTON PORS KLAUS TEESDALE SPIT

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; CASSAN MACLEAN; JONES HELEN MM; WHITHAM CURTIS AND CHRISTOFFERSON AND COOK PC; WHITHAM CURTIS CHRISTOFFERSON AND COOK PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: SUPERCRITICAL FLUID RECOVERY AND REFINING OF HYDROCARBONS FROM HYDROCARBON-BEARING FORMATIONS APPLYING FUEL CELL GAS IN SITU

Abstract: A plume of combined gases are infused into hydrocarbon-bearing formations, "inert" as the major gas and "reactive" as the minor gas, where the minor gas reacts with hydrocarbons to fully saturate hydrocarbons with supercritical fluid, which migrate hydrocarbons out of formations, even at great distances from the regulated fuel cell source. Coal, tar sands, petroleum-contaminated soil, and/or oil wells that have lost gas pressure can also be desorbed by this in-situ method.

Classifications:

International (IPC 8-9): B64C1/40 C09K8/594 E21B33/10 E21B43/08 E21B43/16 E21B43/22 E21B43/24 E21B43/243 E21B43/25 E21B47/00 F03D3/00 H01M8/18 (Advanced/Invention); B64C1/00 C09K8/58 E21B33/10 E21B43/16 E21B43/25 E21B47/00 F03D3/00 H01M8/18 (Core/Invention)

International (IPC 1-7): H01M8/18

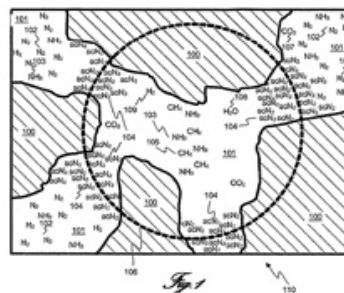
CPC: H01M8/186 Y02E60/528 E21B36/02 E21B43/243 Y02B10/30 Y02B90/16 E21B43/2401 E21B41/0085 H01M8/04022 H01M8/0612 H01M8/0643 H01M2250/405 Y02P20/544 E21B43/168 B64C1/068 H01M8/244 H01M8/2425

European: B64C1/06S E21B36/02 E21B41/00R E21B43/16G2 E21B43/243 E21B43/24B H01M8/04B2C H01M8/06B2 H01M8/06B2G H01M8/18C2 H01M8/24B2H T01M250/40D Y02B10/30 Y02B90/18 Y02E60/52J

US: 166/227 166/227S 166/268 166/271 166/272.1 166/302 166/302S 166/307 166/307S 166/309 166/371 166/67 166/67S

PatBase - US2010163226_AA

Patent Application Publication Jul. 1, 2010 Sheet 1 of 11 US 2010/0163226 A1



Family:

Publication number	Publication date	Application number	Application date
CA2691392 AA	20070215	CA20062691392	20060703
CA2717880 AA	20071018	CA20062717880	20061012
CN101663787 A	20100303	CN200680056619	20061012
EP2186156 A2	20100519	EP20060849844	20061012
IN00938MN2009 A	20090522	IN2009MN00938	20090512
IN02777MN2008 A	20090717	IN2008MN02777	20081229
US2010163226 AA	20100701	US20090307585	20090105
US2011290483 AA	20111201	US20110115108	20110524
US7946346 BB	20110524	US20060307585	20060703
WO06014548 A2	20060209	WO2005US24107	20050705
WO06014548 A3	20060810	WO2005US24107	20050705
WO07018844 A2	20070215	WO2006US26184	20060703
WO07018844 A3	20070628	WO2006US26184	20060703
WO07018844 C1	20080821	WO2006US26184	20060703
WO07117274 A2	20071018	WO2006US40399	20061012
WO07117274 A3	20080731	WO2006US40399	20061012
WO08076147 A2	20080626	WO2007US14470	20070619
WO08076147 A3	20080925	WO2007US14470	20070619
WO08076147 B1	20081106	WO2007US14470	20070619
WO09017468 A1	20090205	WO2007US15468	20070703

Priority:

US20040585203P 20040702	WO2005US24107 20050705	US20050697393P 20050706
US20050698745P 20050712	US20050712031P 20050827	US20050712639P 20050830
US20050712756P 20050830	US20050721013P 20050926	US20050726103P 20051012
WO2006US24159 20060619	US20060307585 20060703	WO2006US26184 20060703
WO2006US26603 20060706	WO2006US40399 20061012	US20090307585 20090105
US20110115108 20110524		

Probable Assignee: CRITICAL POINT ENERGY LLC

Assignee(s): (std): CRITICAL POINT ENERGY LLC ; ZORNES DAVID A ; ZORNES DAVID ALLEN

Inventor(s): (std): ZORNES DAVID A ; ZORNES DAVID ALLEN

Agent(s): HARRISON IVOR STANLEY; DAVID A ZORNES

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: SYSTEM AND METHOD FOR EVALUATING INITIATIVES ADAPTED TO DELIVER VALUE TO A CUSTOMER

Abstract: A value data system, including a database component, including: initiative data representing at least one initiative, said at least one initiative being adapted to deliver value to a customer of an organisation; risk data associated with said initiative data, said risk data representing risks corresponding to said at least one initiative; task data associated with said initiative data, said task data representing tasks to be performed to perform said at least one initiative, said tasks including risk mitigation tasks for mitigating said risks; and value data associated with said initiative data, said value data representing values delivered to said customer as a result of performing said at least one initiative; and a user interface component for defining said initiative data, said risk data, said task data, said value data and the associations between said initiative data, said risk data, said task data, and said value component data; and for defining value data representing values delivered to said customer as a result of performing said at least one initiative.

Classifications:

International (IPC 8-9): G06F17/60 G06Q10/00 (Advanced/Invention);

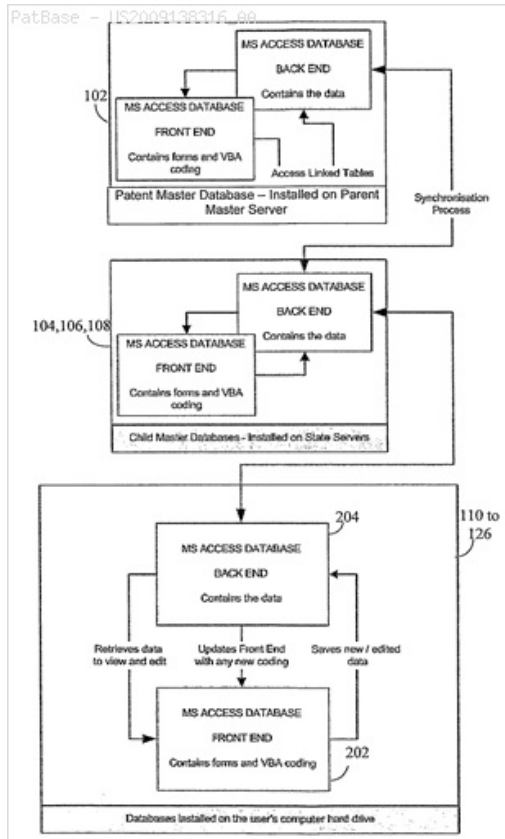
G06Q10/00 (Core/Invention);

G06Q (Subclass/Invention)

CPC: G06Q10/10 G06Q10/063

European: G06Q10/063 G06Q10/10

US: 705/10 705/10S 705/7.11 705/7.110P 705/9 705/9P

**Family:**

Publication number	Publication date	Application number	Application date
AP200704114 A0	20070831	AP20070004114	20060203
AP2482 A	20120928	AP20070004114	20060203
AU2006209802 AA	20060810	AU20060209802	20060203
AU2006209802 BB	20110310	AU20060209802	20060203
BRPI0606763 A2	20091201	BR2006PI06763	20060203
CA2596723 AA	20070802	CA20062596723	20060203
CL2006000263 A1	20070629	CL20060000263	20060206
NZ560377 A	20090828	NZ20060560377	20060203
US2009138316 AA	20090528	US20060815557	20060203
WO06081624 A1	20060810	WO2006AU00137	20060203
ZA200706489 A	20090429	ZA20070006489	20060203

Priority:

AU20050900514 20050204 AU20060209802 20060203 WO2006AU00137 20060203

Probable Assignee: BP PLC

Assignee(s): (std): BP AUSTRALIA PTY LTD ; BP PLC ; DELANY JAMES ANTHONY ; WELLER ANDREW

Inventor(s): (std): ANDREW WELLER ; ANTHONY DELANY JAMES ; DELANY JAMES ANTHONY ; WELLER ANDREW

Inventor(s): WELLER ANDREW ; ANDREW WELLER ; DELANY JAMES ANTHONY WELLER ANDREW ; JAMES ANTHONY DELANY

Agent(s): DAVIES COLLISON CAVE PTY LTD; DAVIES COLLISON CAVE; BERESKIN AND PARR LLP SENCRL SRL; SARGENT; SEED INTELLECTUAL PROPERTY LAW GROUP PLLC

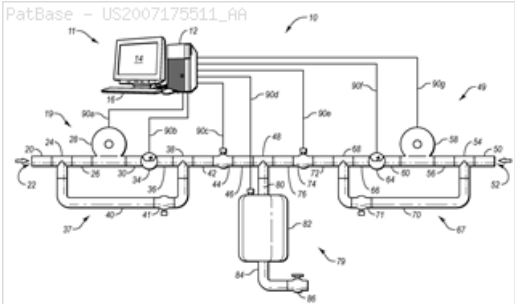
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: BLENDING FACILITY SET-UP AND OPERATION

Abstract: A continuous blending system can be used to prepare burner fuel or blasting agent, and includes a mixer, a first hydrocarbon system, a second hydrocarbon mixer, and a computing system. The mixer is configured for continuously mixing a continuous supply of a first hydrocarbon and a continuous supply of second hydrocarbon to provide a mixed hydrocarbon at a flow rate and a predefined ratio of first and second hydrocarbon. The first hydrocarbon system provides a continuous flow of first hydrocarbon into the mixer. The second hydrocarbon system provides a continuous flow of second hydrocarbon system into the mixer. The computing system is in communication with and configured for simultaneously controlling the first and second hydrocarbon systems in order to obtain the mixed hydrocarbon at the predefined flow rate and at the predefined ratio of first and second hydrocarbon.

Classifications:

International (IPC 8-9): E03B1/00 (Advanced/Invention); E03B1/00 (Core/Invention)
CPC: G05D11/132 Y10T137/0346
European: G05D11/13B2
US: 137/6 208/370



Family:

Publication number	Publication date	Application number	Application date
US2007175511 AA	20070802	US20070626311	20070123

Priority:

US20060764102P 20060201 US20070626311 20070123

Probable Assignee: DOERRSCHNIEDER LLC

Assignee(s): (std): DOERRSCHNIEDER LLC

Inventor(s): (std): DOERR KEVIN ; SNYDER DOUG

Agent(s): WORKMAN NYDEGGER, (F/K/A WORKMAN NYDEGGER AND SEELEY); WORKMAN NYDEGGER F K A WORKMAN NYDEGGER AND SEELEY

Title: PROCESS FOR SEPARATING USED-OIL FROM WATER

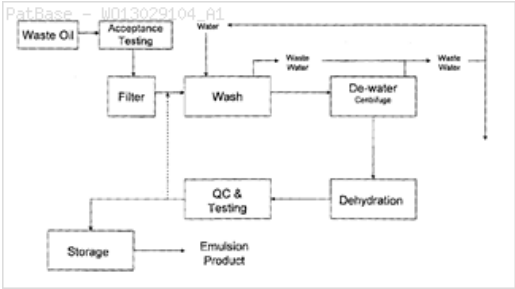
Abstract: A process for treating a used oil-based functional fluid, the process comprising: washing of the functional fluid by contacting the fluid with water followed by settling in order to produce an aqueous phase and an oil phase; separating the oil phase from the aqueous phase; and subjecting the oil phase to dehydration to further remove water from it.

Classifications:

International (IPC 8-9): B01D17/02 B01D17/025

B01D17/04 (Advanced/Invention)

CPC: B01D11/0492 B01D17/0214



Family:

Publication number	Publication date	Application number	Application date
WO13029104 A1	20130307	WO2012AU01019	20120830

Priority:

AU20110903571 20110902

Probable Assignee: ORICA AUSTRALIA PTY LTD

Assignee(s): (std): CHEMALI ALBERT ; ORICA AUSTRALIA PTY LTD ; PALMER ANTHONY MARTIN ; SHEPHERD ALEXANDER DENNIS ; YATES DAVID EDWIN

Inventor(s): (std): CHEMALI ALBERT ; PALMER ANTHONY MARTIN ; SHEPHERD ALEXANDER DENNIS ; YATES DAVID EDWIN

Agent(s): CURWEN JULIAN CHARLES BARTON ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: METHOD FOR PRODUCING AN **ANFO** EXPLOSIVE USING AMMONIUM NITRATE AND **RESIDUAL OILS** AND PRODUCT THUS PRODUCED

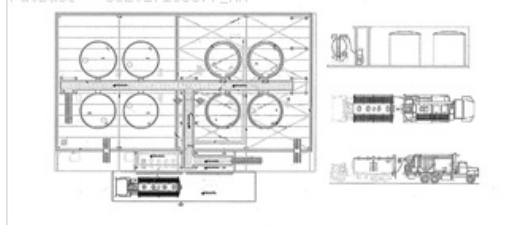
Abstract: The present invention relates to a method for producing **ANFO** on the basis of filtration and purification of the **residual oils** of a mine in a **filter** truck especially designed and developed for this purpose, with the aim of completely replacing the diesel fuel 2 with said **residual oils** that have been previously treated in order to mix same with ammonium nitrate, as well as the product resulting from said method. The aim of this invention is to use the **residual oil** produced in mines in large quantities, as the only combustible agent in the production of **ANFO**, generating cost savings by completely substituting diesel 2 and additionally eliminating the existing risk inherent in the removal of the **residual oil** from the mine and the negative impact that it can generate in the environment if it is not used appropriately.

Classifications:

International (IPC 8-9): C06B21/00 C06B31/28 (Advanced/Invention)

CPC: C06B31/285 C06B21/0008 C06B21/0091

PatBase - US2017158577_AA



Family:

Publication number	Publication date	Application number	Application date
AU2014398702 AA	20151230	AU20140398702	20140625
BR112016030277 A2	20170822	BR20161130277	20140625
CA2951834 AA	20161209	CA20142951834	20140625
CL2016003314 A1	20170818	CL20160003314	20161223
CO20160005655 A2	20170310	CO20160005655	20161221
MX2016017150 A1	20170406	MX20160017150	20140625
US2017158577 AA	20170608	US20140315648	20140625
WO15199556 A1	20151230	WO2014PE00009	20140625

Priority:

WO2014PE00009 20140625

Probable Assignee: EXSA SA

Assignee(s): (std): EXSA S A

Assignee(s): EXSA SA ; HUAMAN VILCAHUAMAN JOSE ANTONIO ; ANAZCO OTERO RONALD ALFREDO

Inventor(s): (std): ANAZCO OTERO RONALD ALFREDO ; HUAMAN VILCAHUAMAN JOSE ANTONIO ; JOSE ANONIO HUAMAN VILCAHUAMAN ; JOSE ANTONIO HUAMAN VILCAHUAMAN ; RONALD ALFREDO ANAZCO OTERO

Agent(s): FAL PATENTS PTY LTD; RIDOUT AND MAYBEE LLP; ALICIA LLOREDA RICAURTE; FERNANDEZ PEPPER MARTA TERESA

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: VEHICLE ADAPTED FOR MAKING MIXTURES OF **WASTE** LUBRICATING **OIL**/FUEL OIL FOR THE IN SITU PRODUCTION OF BULK PRODUCTS, AND ASSOCIATED PROCESS

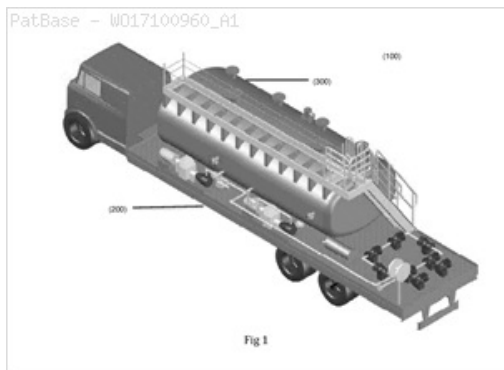
Abstract: The invention relates to a transport vehicle designed preferably for producing a mixture of **waste** lubricating **oils**/fuel oil (ALR/FO), mounted preferably on a chassis and comprising at least one metal tank. The metal tank is divided internally into at least two compartments having respective wave-breaks, wherein each compartment comprises a pump system, a plurality of lines for recharging products, at least one quick-filling system for respective FO and ALR compartments, at least one manual traditional filling system, and the vehicle comprises at least one logical control system having at least one actuating panel, at least one actuating reel for the actuation of at least one hose, and at least one static mixer for the ALR/FO mixture having an overpressure safety system, wherein said safety system includes a recirculation system to the ALR compartment, a plurality of double-acting vent valves, at least one man access, at least one battery, a plurality of **filters** for the suction of recycled oils and at least two **filters** for direct supply to manufacturing equipment. The invention also relates to an associated process.

Classifications:

International (IPC 8-9): C06B31/00 C06B31/28 C06B47/00

C06B47/14 (Advanced/Invention)

CPC: C06B31/00 C06B31/28 C06B47/00 C06B47/14



Family:

Publication number	Publication date	Application number	Application date
AU2016369994 AA	20170622	AU20160369994	20161215
WO17100960 A1	20170622	WO2016CL50070	20161215

Priority:

US20150267679P 20151215 WO2016CL50070 20161215

Probable Assignee: ENAEX SERVICIOS S A

Assignee(s): (std): ENAEX SERVICIOS S A

Assignee(s): ENAEX SERVICIOS SA

Inventor(s): (std): GARCIA G CAMILO ; LOYOLA IRRIBARRA LUIS ANTONIO ; MENDEZ A DIEGO ; ZANGHERI G FERNANDO

Inventor(s): GARCIA G ; ZANGHERI G ; MENDEZ A

Agent(s): JAMES AND WELLS INTELLECTUAL PROPERTY; SILVA AND CIA

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: PROCEDIMIENTO PARA LA ELABORACION DE UN EXPLOSIVO **ANFO** UTILIZANDO NITRATO DE AMONIO Y ACEITES RESIDUALES Y EL PRODUCTO ASI OBTENIDO Procedure FOR THE ELABORATION OF AN EXPLOSIVE USING AMMONIUM NITRATE AND **ANFO WASTE OILS** AND THE PRODUCT THUS OBTAINED (Machine translation)

Abstract: Source: PE08162017A [ES] La presente invencion consiste en un procedimiento para fabricar **ANFO** sobre la base de la filtracion y purificacion de los aceites residuales de una mina en un camion filtrador especialmente disenado y desarrollado para este efecto, con el objetivo de reemplazar totalmente el petroleo diesel 2 por dichos aceites residuales previamente tratados, para ser mezclados con nitrato de amonio, asi como el producto resultante de dicho procedimiento. El objetivo de esta invencion es aprovechar el aceite residual que se produce en las minas en grandes cantidades, como unico agente combustible en la fabricacion de **ANFO**, generando ahorro de costos al sustituir totalmente al Diesel 2 y adicionalmente eliminar el riesgo existente por el retiro de mina del aceite residual y el impacto negativo que puede generar en el medio ambiente si no es adecuadamente utilizado

Machine translation: The present invention consists of a method for manufacturing **ANFO** on the basis of the filtration and purification of **waste oils** of a mine in a truck **Filter** especially designed and developed for this purpose, with the aim of completely replace the diesel oil 2 by said previously treated **waste oils**, to be mixed with ammonium nitrate, as well as the product resulting from said method. The aim of this invention is to take advantage of the **residual oil** that occurs in the mines in large quantities, fuel as a single agent in the manufacture of **ANFO**, generating cost savings to fully replace the existing Diesel 2 and further eliminate the risk by the removal of **residual oil** mine and the negative impact that it can generate in the environment if it is not properly used

Classifications:

International (IPC 8-9): C06B31/28 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
PE08162017 A1	20170704	PE20160002740	20140625

Priority:

PE20160002740 20140625

Probable Assignee: EXSA S A

Assignee(s): (std): EXSA S A

Assignee(s): EXSA SA

Inventor(s): (std): ANAZCO OTERO RONALD ALFREDO ; HUAMAN VILCAHUAMAN JOSE ANTONIO