




What's New on STN[®]

PIUG Biotech – February 2020
John Kratunis (CAS); Jim Brown (FIZ)

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Agenda

- Stay Updated with STNext[®]
- Enhancements to STNext
- CAS FORMULATIONS[™]
- STNext Database Enhancements

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STNext Release Notes

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What's New

December 23, 2019: [Derwent World Patents Index: Manual Code Revision 2020](#)

December 17, 2019: [New Korean Patent Full-Text Database KRFULL from LexisNexis Univentio Launched on STN®](#)

STN® Application Updates

November 22, 2019: [What's New Link Added to Account Menu](#)

October 25, 2019: [Information Icon and Reporting Changes for CAS FORMULATIONS™ Database](#)

[See All Application Updates](#)

STN® Content Updates

December 12, 2019: [CAplusSM Now Provides Non-Conventional Patent Families for Dual Chinese Filings](#)

November 25, 2019: [PatentPak® Now Available in USPATFULL/USPAT2 on STNext®](#)

[See All Content Updates](#)

STN Online News

* * * * * Welcome to STN International * * * * *

- NEWS 1** MAR 7 Search Limits Significantly Expanded Exclusively in STNext(R)
- NEWS 2** APR 18 New legal status codes for US patent applications and granted patents in INPADOC
- NEWS 3** APR 30 Derwent Markush Resource (DWPIM) Database Enhancements
- NEWS 4** OCT 7 New CAS FORMULATIONS TM Database Launched on STNext
- NEWS 5** OCT 8 Third 2019 update to Emtree(TM) now available on STN(R)
- NEWS 6** NOV 8 Derwent Markush Resource (DWPIM) Enhanced to Improve Search and Retrieval Quality
- NEWS 7** NOV 15 INPADOC Enhanced with More Current and Complete Japanese Legal Status Information.
- NEWS 8** NOV 18 German Patent Full-Text Database DEFULL enhanced
- NEWS 9** NOV 25 CAS FORMULATIONS (TM) Enhanced on STNext
- NEWS 10** NOV 25 PatentPak(R) now available in USPATFULL/USPAT2 on STNext(R)
- NEWS 11** DEC 10 CPlus (SM) Now Provides Non-Conventional Patent Families for Chinese Dual Filings
- NEWS 12** DEC 23 Derwent World Patents Index: Manual Code Revision 2020

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STN Online News

=> NEWS 1

Search Limits Significantly Expanded Exclusively in STNext(R)

Effective immediately, search limits have been significantly and exclusively expanded in STNext(R). You can now have up to 100 million answers per file per session in all databases on STNext.

In addition, the structure searchable databases CAS Registry(SM), MARPAT(R) and CASREACT(R) now allow up to 100 million iterations per search.

These increases may reduce the need to run sample searches in the CAS structure searchable databases, especially for customers with STN Global Value pricing plans. Customers may still want to run sample searches before proceeding to FULL searches, as a means to check their structures.

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STNext – Upcoming Releases

- Projects
 - Improved structure and transcript management
 - Searchable asset names
 - Combine multiple different assets into a single folder
- Query Summary File download in PDF format
 - Download your QSF for a summary of your search history
 - QSF is currently available in RFT format
- Reporting enhancements
 - More customization
 - Merge or split fields in report
- Claim Text Search in CAplusSM
- Patent Legal Status in CAplus

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CAS FORMULATIONS in STNext

=> FILE CASFORM

- Precision searching of formulations and compositions for well-targeted answers.
- Updated Weekly
- CAS FORMULATIONS content:
 - Largest formulation collection in the world
 - Human Indexed from patents, journals, and product inserts from NLM DailyMed
 - Pharmaceuticals, agrosiences, materials, cosmetics, flavors, fragrances
 - Over 20 years of backfile
 - Published in English, French, German, Japanese, Chinese, Korean

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CAS FORMULATIONS Unique Search Fields

- Fields specific to groups, components, products and targets
- Fields for functions of products, groups, and components
- Search for component optionality (e.g.: mandatory, exclude, one or more, etc)
- Search for availability of component amount data
- Easy crossover with CAS REGISTRY® and transfer with CPlus

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Finding common stabilizers for antibody formulations

1. Retrieve antibody records from CAS REGISTRY
2. Cross over to CAS FORMULATIONS to find formulations of these substances
3. Refine to formulations with stabilizing agents using controlled terminology in the CVO and GVO fields.
4. Analyze HIT RN to view most commonly used stabilizing agents in these formulations.

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Retrieve antibody records from CAS REGISTRY

=> FILE REGISTRY

=> S (?AMAB OR ?EMAB OR ?IMAB OR ?OMAB OR ?UMAB)/CNS

L1 4826 (?AMAB OR ?EMAB OR ?IMAB OR ?OMAB OR ?UMAB)/CNS

=> S IMMUNOGLOBULIN?/CN AND CASFORM?/LC

L2 30040 IMMUNOGLOBULIN?/CN AND CASFORM?/LC

=> S SQL>=250 AND PROTEIN/FS

L3 3360580 SQL>=250 AND PROTEIN/FS

=> S L3 AND CASFORM?/LC

L4 46806 L3 AND CASFORM?/LC

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Cross over to CAS FORMULATIONS to find antibody formulations

=> S L1 OR L2 OR L4

L5 74948 L1 OR L2 OR L4

=> FILE CASFORM

=> SET HIGHLIGHTING OFF

=> S L5

L6 57838 L5

=> SET HIGHLIGHTING ON

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Refine to formulations with stabilizing agents using controlled terminology in the CVO and GVO fields.

=> S L6 AND STABILIZING AGENT/CVO,GVO (L) RN/FA

L5 1573 L6 AND STABILIZING AGENT/CVO,GVO (L) RN/FA

=> S L7 AND P/DT

L6 1454 L7 AND P/DT

=> ANA L8 HIT RN

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L9 ANALYZE L8 1- RN HIT : 568 TERMS

=> D TOP 10

TERM #	# OCC	# DOC	% DOC	RN
1	415	413	28.40	57-50-1/RN
2	200	199	13.69	99-20-7/RN
3	185	180	12.38	74-79-3/RN
4	156	156	10.73	56-40-6/RN
5	120	120	8.25	69-65-8/RN
6	113	113	7.77	10043-35-3/RN
7	98	98	6.74	50-70-4/RN
8	94	94	6.46	63-68-3/RN
9	87	86	5.91	25322-68-3/RN
10	76	75	5.16	7647-14-5/RN

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AN 2019:216523 CASFORMULTNS
 CPAN 2018:2113747
 TI Stable formulations of programmed death receptor 1 (PD-1) antibodies
 and methods of use thereof
 JT PCT Int. Appl.
 LCD example 10, Table 22

COMPONENT C1

RN 1374853-91-4
 CNM pembrolizumab
 CAM 5 mg/mL
 CFU active agent; antibodies and immunoglobulins
 COP Mandatory

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COMPONENT C4

RN 99-20-7
 CNM trehalose
 CCN α -D-Glucopyranoside, α -D-glucopyranosyl (9CI, ACI)
 CAM 1.4 %
 CFU stabilizing agents
 COP Mandatory

CVO Stabilizing agents; Stability promoters; Stabilizing substances;
 Promoters, stability; Stabilization agents; Stability agents;
 Stability promoter; Stabilization agent; Stabilizing agent;
 Stabilizing substance; Stabilizer; Stability agent; Stabilization
 promoters

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Finding antibody formulations free of surfactants

1. Search previously retrieved antibody formulations not including surfactants.
2. Search previously retrieved antibody formulations explicitly excluding surfactants.
3. Free-Text search basic index.
4. Family Sort to group formulations by patent family.

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Retrieve antibody formulations not excluding surfactants

=> S L8 NOT (SURFACTANT? OR (SURFACE ACTIVE AGENT))/CVO,GVO

L10 698 L8 NOT (SURFACTANT? OR (SURFACE ACTIVE AGENT))/CVO,GVO

=> S L8 AND (SURFACTANT? OR (SURFACE ACTIVE AGENT))/CVO,GVO(L) EXCLUDE/COP,GOP

L11 26 L8 AND (SURFACTANT? OR (SURFACE ACTIVE
AGENT))/CVO,GVO(L) EXCLUDE/COP,GOP

=> S L8 AND SURFACTANT (2A) FREE

L12 8 L8 AND SURFACTANT (2A) FREE

=> S L10 OR L11 OR L12

L13 726 L10 OR L11 OR L12

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Family Sort to group formulations by patent family

=> FSORT L13

L14 726 FSO L13

83 Multi-record Families	Answers 1-640
Family 1	Answers 1-37
Family 2	Answers 38-41
Family 3	Answers 42-206
Family 4	Answers 207-216
Family 5	Answers 217-218
Family 6	Answers 219-231
O O O	

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AN 2018:234736 CASFORMULTNS
CPAN 2018:275897
TI Method of reducing immunogenicity of drug products
JT U.S. Pat. Appl. Publ.
LCD example 16

COMPONENT C1

RN 331731-18-1
CNM adalimumab
CAM 50 mg/ml
CFU active agent; antibodies and immunoglobulins; immunogenicity reducer
COP Mandatory

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GROUP G2
 GDS stabilizer
 GFU stabilizing agents; immunogenicity reducer
 CMPS C2-C4
 GOP Mandatory

COMPONENT C2
 RN 71-00-1
 CNM L-histidine
 CAM 20 mM
 CFU amino acids; immunogenicity reducer
 COP Mandatory

GVO Stabilizing agents; Stability promoters; Stabilizing substances;
 Promoters, stability; Stabilization agents; Stability agents;
 Stability promoter; Stabilization agent; Stabilizing agent;

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GROUP G4
 GDS Additional ingredients
 CMPS C6
 GOP Exclude

COMPONENT C6
 CNM surfactant
 CFU surfactants
 COP Exclude

CVO Surfactants; Cleaning agents, surfactant; Invert soaps; Polysoaps;
 Reversed soaps; Tensides; PAV; Surface-active agents; PAV
 (surfactant); Gemini surfactants; Gemini surfactant; Surfactant;
 Surface-active agent; Surface-active substance; Inverse soap; Reversed
 soap; Tenside; Capillary-active substance; Interface-active substance;
 Surface active agent

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PatentPak® is now available in USPATFULL/USPAT2

- PDF patent records will be available for US patent documents
- Coverage is 1975-present
- When the US document was indexed as the basic patent document, the PFD+ and Interactive viewer will also be available
- Limit by PDF/FA or PPAK/FA for PatentPak options
- Backfile added November 2019

Only available to customers licensing PatentPak

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PatentPak content in USPATFULL/USPAT2

- USPATFULL:
 - Over 2.2 M records with PDF links
 - Over 620,000 records with substance locations
- USPAT2:
 - Over 1.1 M records with PDF links
 - Over 56,000 records with substance locations

=> HELP PPAK
for more information

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PatentPak display formats in USPATFULL/USPAT2

- STD and BIB display formats include **only PatentPak links**
- SPP and BPP display formats include PPAK field with **page location for all substances**
- HITPPAK display format for **page location for only hit substances**

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PatentPak is built on the indexing effort of the scientific analysts that create the CAS REGISTRY

- Scientists review each patent and identify new substances for CAS REGISTRY inclusion
- They mark the specific location of substances in the text during analysis
- Algorithmic processing with human intervention allows previously registered substances to be located and annotated in backfile documents

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Complete List of 46 Authorities Covered in PatentPak



Authority	Code
Argentina	AR
Australia	AU
Austria	AT
Belgium	BE
Brazil	BR
Bulgaria	BG
Canada	CA
China	CN
Croatia	HR
Czech Republic	CZ
Denmark	DK
EPO	EP
Estonia	EE
Finland	FI
France	FR
Germany	DE

Authority	Code
Greece	GR
Hungary	HU
India	IN
Ireland	IE
Israel	IL
Italy	IT
Japan	JP
Korea	KR
Latvia	LV
Lithuania	LT
Luxembourg	LU
Malaysia	MY
Moldova	MD
Monaco	MC
Netherlands	NL
Philippines	PH

Authority	Code
Poland	PL
Portugal	PT
Romania	RO
Russian Federation	RU
Slovakia	SK
Slovenia	SI
South Africa	ZA
Spain	ES
Sweden	SE
Switzerland	CH
Turkey	TR
United Kingdom	GB
United States	US
WIPO	WO

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CPlus Non-Conventional Patent Families for Chinese Dual Filings

- The Chinese patent system allows for parallel filing of a patent application and a utility model on the same day.
- Historically, the utility model and patent application would be in separate families because they lack a shared priority.
- CPlus now links together the utility model and patent application for the same invention.
- September 3, 2019 filings and later
- Look for **T0** kind code in the PRAI field to identify non-conventional patent families

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Embase® - Emtree thesaurus updates 3X/Year

- Third Emtree update was October 2019
- 1,049 new preferred terms were added, including additional pharmacovigilance (PV) terms
 - 872 non-drug terms
 - 29 medical device terms
 - 177 drug terms
- Emtree now includes almost 84,000 preferred terms and nearly 380,000 synonyms
- Reminder: Check alerts to determine if new terminology should be added.

https://service.elsevier.com/app/answers/detail/a_id/16354/

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Agenda



STN Database Enhancements

- Marpat & CAS Registry
- Embase, Medline
- DWPI
- DWPIM on STNext
- INPADOC
- DEFULL & KRFULL

STNext News

- Information and latest enhancements

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Enhanced Structure Displays now available to CAS REGISTRY

- Exclusively in STNext
- Includes hit structure highlighting
- Handles structures which were previously split between pages
- Displays additional structures for which graphics could not be previously displayed
- Plot10 graphics images being replaced by modern SVG images

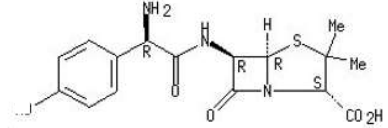
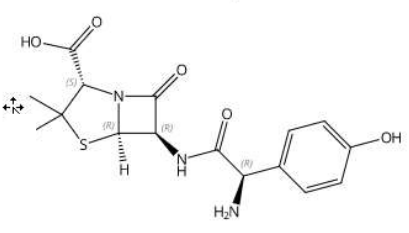
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Structure images will be much crisper

Examples	Before	After
Single component structure	<p>Absolute stereochemistry.</p> 	<p>Absolute stereochemistry.</p> 

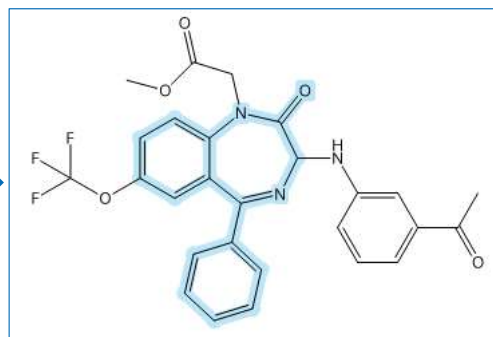
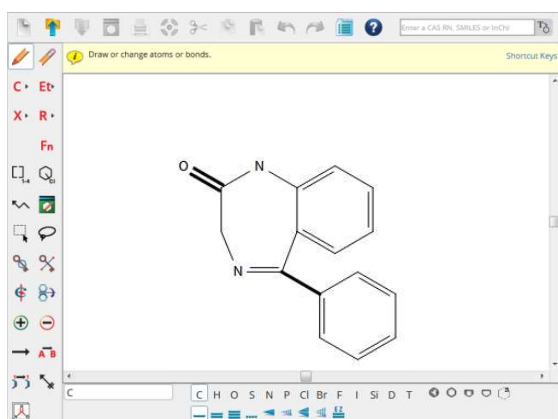
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Hit structure highlighting in CAS REGSITRY in STNext makes it easy to see why you retrieved a structure



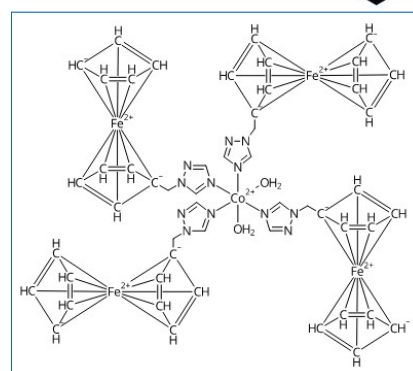
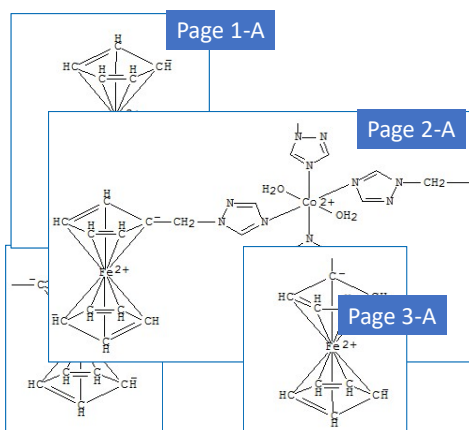
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Large structures previously broken into pages can now be presented as a single image



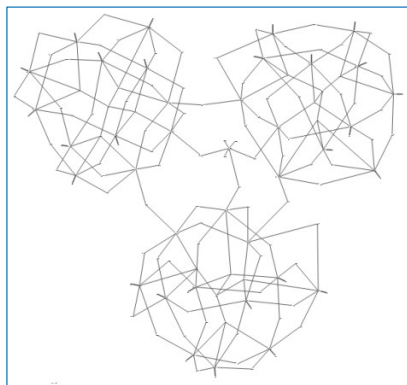
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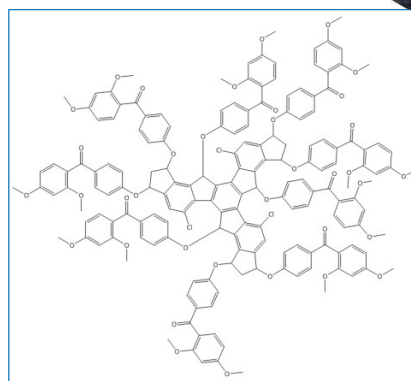
FIZ Karlsruhe RN 2101698-30-8
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Some structure diagrams which were previously too large to display can now be displayed



RN 1356461-74-9



RN 2361141-47-9

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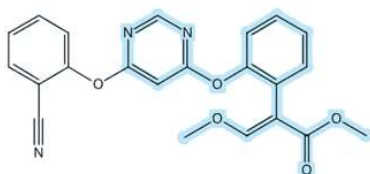
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Enhanced Structure Displays in MARPAT and Caplus

- MARPAT assembled Displays show hit structure highlighting

MSTR 1 Assembled



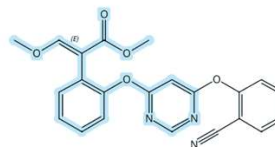
Patent location:
Note:

disclosure
or mixtures

- Caplus HITSTR Display includes hit structure highlighting

```
IT 2305611-90-7, Azoxystrobin-3-Decenoic acid mixt.
2305612-33-1, Azoxystrobin-7-Octenoic acid mixt.
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic pesticidal compns. and methods for delivery of active
ingredients)
RN 2305611-90-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

CM 1
CRN 131860-33-8
CMF C22 H17 N3 O5
```



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Update your alerts

- **MeSH** controlled terms updated – Medline
 - Additional terms (>360), moved (131) or deleted (9) terms
- **Emtree** thesaurus updated – Embase
 - 3 times a year: 1st (January), 2nd (May) and 3rd (October) update loaded
- **Manual Codes** updated – Derwent World Patents Index
 - 59 new Manual Codes
 - Manual code revision for 2021: your comments are welcome!
scientific.mcrdwp@clarivate.com
- Expand in CT or MC field and adjust your alerts regularly

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Derwent World Patents Index 2020: new manual codes

- **59 new Manual Codes added**
 - 39 new CPI (Chemical Patents Index) codes and
 - 20 new codes in the GMPI/EPI (General and Mechanical Patents Index and Electrical Engineering Patents Index) areas
- Significant revisions for 2020 include:
 - New drug administration codes, e.g. intracardiac (B12-M12Y)
 - New drug nano-formulation codes, e.g. nanoparticle (B12-M11Q1)
 - New code S05-G02G5 for Pharmacovigilance systems
 - New code X21-W for general by-wire / (semi)autonomous vehicle control
 - New code X25-A08M8 - 4D compatible materials (4D printing)
- A lookup tool for DWPI Manual Codes is available at <http://ips.clarivate.com/mcl/>
- Manual code revision for 2020: your comments are welcome!

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The Derwent World Patents Index



- DWPI and DWPIIM with more frequent updates
 - From April 3, 2019: **updates twice a week**
 - Alerts running on every update will be delivered on the new twice-weekly schedule
- Coverage Enhancements – Adding CIS Countries (next slides)
- CPC combination sets (next slides)

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DWPI Coverage Enhancements – Adding CIS Countries



- Inclusion of records from 8 former Soviet republics that form the CIS (Commonwealth of Independent States) + Eurasian Patent Organization (EAPO)
 - AM** Armenia
 - BY** Belarus)
 - EA** Eurasian Patent Organization
 - GE** Georgia
 - KZ** Kazakhstan
 - KG** Kyrgyzstan
 - MD** Moldova
 - UZ** Uzbekistan
 - TJ** Tajikistan
- From update 2019/17
- Backfiling started and will provide documents from most authorities back to around 2002
- Strong focus on pharmaceuticals, biotechnology and chemistry, as well as civil and mechanical engineering₄₀

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CIS Country Coverage on STN (April 2019)



Patent Country	DWPI	CAplus	INPADOC Bib	PCT*	INPADOC Legal Status	
Armenia	AM	P + U	-	limited coverage	+	-
Belarus	BY	P	-	limited coverage	+	-
Eurasian PO	EA	P	P	P (1996-)	+	withdrawl, lapse, license, etc
Georgia	GE	P + U	-	P + U (1992-)	+	-
Kazakhstan	KZ	P	-	P (1995-2013)	+	-
Kyrgyzstan	KG	P + U	-	limited coverage	+	-
Moldova	MD	P	P + U	P + U (1987-)	+	fee payment, expiration, lapse, etc
Russia	RU	P + U	P	P + U (2000-)	+	patent invalid, appl. withdrawn, etc.
Tajikistan	TJ	P	-	P + U (1993-2007)	-	-
Ukraine	UA	-	-	P + U (1999-)	+	-
Uzbekistan	UZ	P + U	-	limited coverage	+	-

*P = patents U = utility models, (publication year), * - PCT entry into national phase*

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DWPI – CPC Combination Sets now fully available

- CPC classification with combination sets is now available for more than **1 million DWPI records**
- CPC combination sets are groups of CPC symbols linking multiple features of an invention
 - Assigned in special technical fields
 - Support more precise CPC searching
 - Many CPC codes are unique to CPC combination sets
 - Value for novelty searching

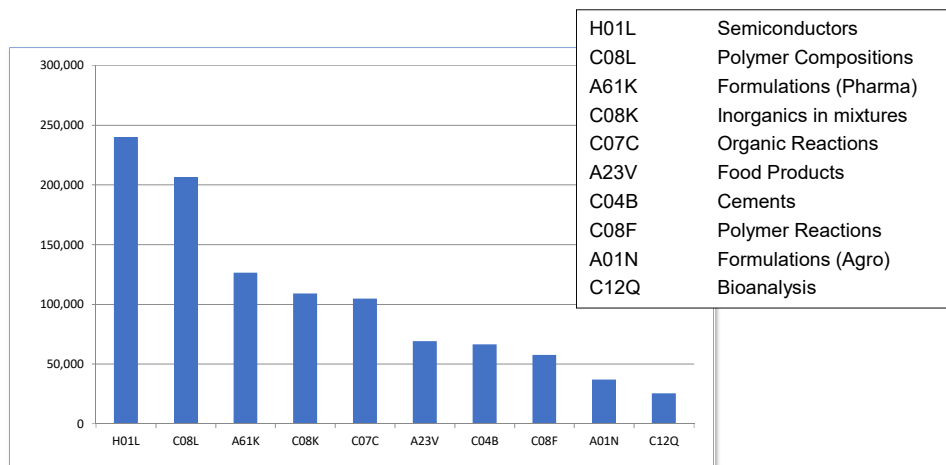
see online news 20 for more details

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Major CPC Subclasses of CPC Combination Sets in DWPI



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Searching CPC Combination Sets

Example: Polymeric mixtures of polyamides and carbon nanotubes, used in automobiles or aircraft

Use (S)-proximity to search CPC codes in one combination set

=> FILE WPIX

=> S C08K0003-041/CPC(S)C08L0077-00+NT/CPC

L1 67 C08K0003-041+NT/CPC(S)C08L0077-00+NT/CPC

C08K0003-041 carbon nanotubes
C08L0077-00 polyamide comp.

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CPC Display indicates Combination Sets

=> D AN TI PA PN CPC

AN 2019-18884L [201917] WPIX
 TI Carbon nanotube enhanced polymer used in air and space vehicles including passenger ships, automobiles and marine products, comprises a polymer and many carbon nanotube sheetlets mixed with the polymer
 PA (BOEI-C) BOEING CO
 PI EP 3447083 A1 20190227 (201917)* EN 16[10] CPC codes of a combination set are separated by commas
 US 20190062524 A1 20190228 (201917) EN
 CA 3010858 A1 20190225 (201918) EN
 CN 109423005 A 20190305 (201919) ZH
 JP 2019039001 A 20190314 (201919) JA 15
 CPC B29B0007-90; B29C0064-118; B29C0064-153; B29K2507-04; B33Y0010-00; B33Y0070-00; C08K0003-041; B29L2031-30; C08K2201-001; C08K0003-041, C08L0077-00; C08K0003-041, C08L0071-12; C08K0003-041, C08L0081-04

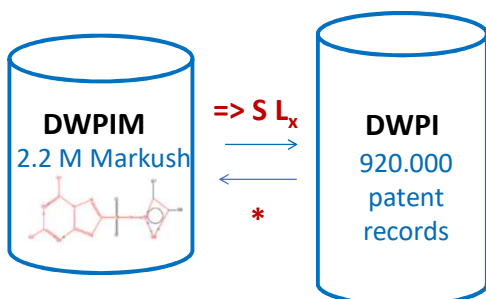
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Derwent Markush Resource on STNext



- Markush Indexing provided for DWPI records of Derwent sections B (pharma), C (agro) and E (chemistry)
- Powerful Markush retrieval solution including Derwent nodes
- Full integration in DWPI
- **Functionality enhancements in November 2019**

* => TRA MCN /AN

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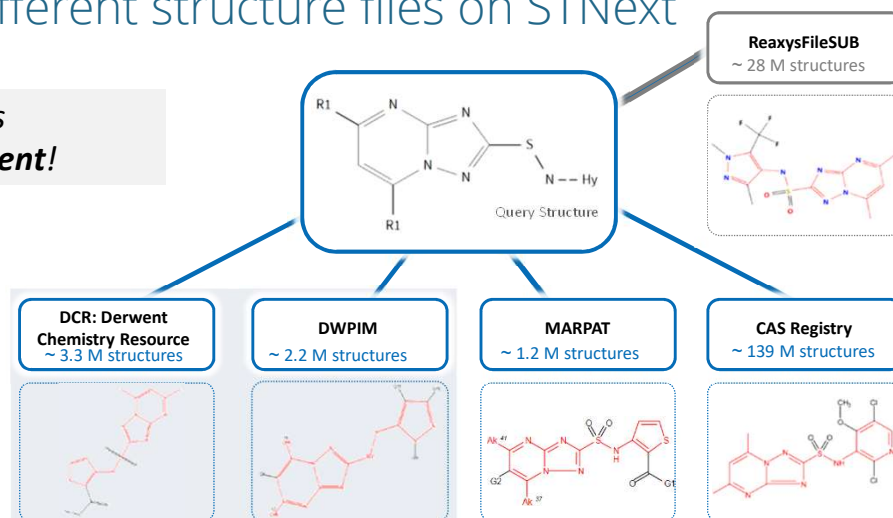
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Access different structure files on STNext

**Each file has
unique content!**



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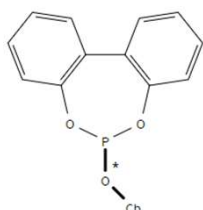
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Derwent Markush (DWPIM)- alert functionality on STNext

- STNext alert feature supports monitoring of Markush structures
- Alert **frequency** is in sync with DWPI:
twice per week/weekly/monthly
- Alert results via email link or online for further processing



Entered DWPIM 11:44:03 ON 14 MAY 2019

L1 STRUCTURE UPLOADED Edit ...

L2 519 S L1 SSS FULL ...

Create an Alert

Patent Family Manager

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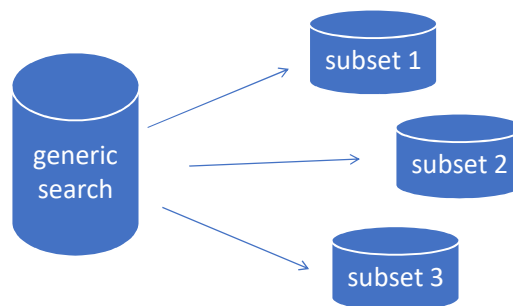
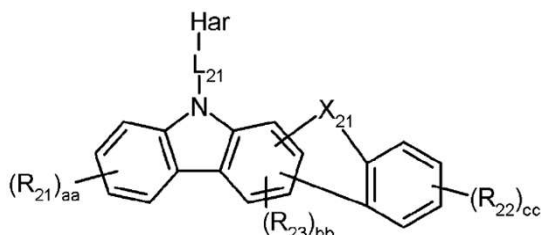
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DWPIM - subset structure searching is now available

- Subset searching is very useful when the search request is too broad for a single structure query
- Search syntax follows STN conventions, see HELP SUBSET



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Subset structure search for refinement in DWPIM

- The SUBSET feature is used to restrict a structure search on any answer set created in DWPIM

=> **S L3 SUBSET=L2 SSS FULL**

Command Structure query Specify answer set to be used Search type: SSS or CSS Search scope: FULL or SAMPLE

- Example: Search strategy to retrieve separate subclasses for a substance class
 - 1 Search for the basic structure with a generic structure query.
 - 2 Refine with multiple more specific structure elements to retrieve separate answer sets for each subclass.

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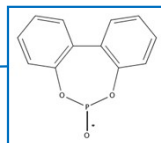
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Subset structure search for refinement in DWPIIM

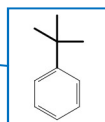
...

L1 STRUCTURE UPLOADED



=> S L1 SSS FULL

L2 519 SEA SSS FUL L1



...

L3 STRUCTURE UPLOADED

Refine answer set L2 by a subset search for structure query L3

=> S L3 SUBSET=L2 SSS FULL

L4 412 SEA SUB=L2 SSS FUL L3

Structures in L4 have both structure queries (L1 and L3) present

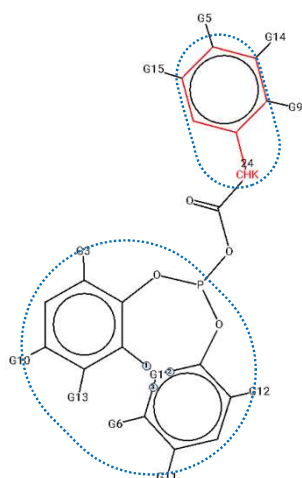
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Subset structure search for refinement in DWPIIM



Structures in L4 have both structure queries (L1 and L3) present

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INPADOC/INPAFAM: Significant Legal Status Enhancements for PCT Entry into national phase and JP LS information


- PCT entry data is now available for **17 additional countries** including : AZ, CO, CR, CU, DK, ID, IN, KG, KZ, MA, NI, PE, RS, SG, TR, VN, YU
- Coverage will be completed for **major patent authorities** over the next weeks including: CN, DE, EP, KR, MX, US
- **Country-specific search options are available**, e.g. PCT publications with national phase entry in Indonesia
=> S ID/LSCY(L)WOWWE/LSC
- **More current Japanese legal status information**

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Status of US patents on INPADOCBDB/INPAFAMDB

- 
- New event codes of legal status data for **US patent applications and granted patents**
 - Important **pre-grant legal events** are now be made available
 - New legal event codes will be loaded for more than 8.5 million US records
 - Around 80 US events assigned into 10 generic legal status codes (**/LSC**)
 - Original status values from USPTO searchable (**/LSFT**)
 - Convenient search of legal status information using legal status categories (**/LSC2**)
 - See online Help 25 for more details

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New US legal status codes in /LSC



Legal status code	Description in Legal Status text (/LSTX)	/LSC2-Category
USSTCA	Information on status: Application Filing	-
USSTCB	Information on status: Application Discontinuation	NIF
USSTCC	Information on status: Application Revival	REI
USSTCE	Information on status: Pre-grant Review	EXA
USSTCF	Information on status: Patent Grant	-
USSTCH	Information on status: Patent Discontinuation	NIF
USSTCK	Information on status: Patent Revival	REI
USSTCT	Information on status: Administrative Procedure Adjustment	-
USSTCV	Information on status: Appeal Procedure	ORE
USSTPP	Information on status: Patent Application and granting procedure-general	-

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Original status events and corresponding legal status codes



Legal Status Code in /LSC	Original status value (USPTO) in /LSFT	Description in /LSTX
USSTCA	Utility Application Converted into a Provisional Application	Information on status: Application Filing
USSTCA	Utility Application Converted to Provisional Application	Information on status: Application Filing
USSTCB	Abandoned -- After Examiner's Answer or Board of Appeals Decision	Information on status: Application Discontinuation
USSTCB	Abandoned -- Failure to Pay Issue Fee	Information on status: Application Discontinuation
USSTCB	Abandoned -- Failure to Respond to an Office Action	Information on status: Application Discontinuation
USSTCB	Abandoned -- File-Wrapper-Continuation Parent Application	Information on status: Application Discontinuation
USSTCB	Abandoned -- Incomplete (Filing Date Under Rule 53 (b) - PreExam)	Information on status: Application Discontinuation
USSTCB	Abandoned -- Incomplete Application (Pre-examination)	Information on status: Application Discontinuation
USSTCB	Abandonment for Failure to Correct Drawings/Oath/NonPub Request	Information on status: Application Discontinuation
USSTCB	Expressly Abandoned -- During Examination	Information on status: Application Discontinuation
USSTCB	Expressly Abandoned -- During Publication Process	Information on status: Application Discontinuation
...

See HELP 25 for complete list of new US legal events in INPADOCDB/INPAFAMDB

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Example: monitoring legal events may be more timely

PI US 20190072929 **A1** 20190307
TI LADDER LOGIC GRAPHICAL PROGRAMMING AND TEXTUAL PROGRAMMING
 SYNCHRONIZATION.

 ...
 20190420 USSTPP INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING
 PROCEDURE IN GENERAL
 RESPONSE TO NON-FINAL OFFICE ACTION ENTERED AND FORWARDED
 TO EXAMINER
 20190620
 20190425 USSTPP INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING
 PROCEDURE IN GENERAL
 NOTICE OF ALLOWANCE MAILED -- APPLICATION RECEIVED IN
 OFFICE OF PUBLICATIONS
 20190620
 20190524 USSTPP INFORMATION ON STATUS: PATENT APPLICATION AND GRANTING
 PROCEDURE IN GENERAL
 PUBLICATIONS -- ISSUE FEE PAYMENT VERIFIED
 20190704
 20190619 USSTCF INFORMATION ON STATUS: PATENT GRANT
 PATENTED CASE
 20190704

Only application listed (20190718), no granted patent.

Early indicators

Legal event provided before publication of granted patent (20190704)

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News from the full text databases

KRFULL	December 17, 2019
DEFULL	November 17, 2019
GBFULL	February 26, 2019
FRFULL	February 26, 2019

NOW ON STNext

RELOADED

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KRFULL now available on STNext

- **Patent applications, granted patents and utility models** published by the Korean Intellectual Property Office
- **Full text in English** from 1978 onwards
- **Records are available for display in Korean**
E.g. TIKO, ABKO, PAKO, CLMKO, BIBO, BRIEFO, MAXO, etc.

TIEN HORIZONTAL LINE DRIVER AND DISPLAY DEVICE INCLUDING THE SAME
TIKO 수평 라인 드라이버 및 이를 포함하는 표시 장치
PA SAMSUNG DISPLAY CO., LTD.
PAKO 삼성디스플레이 주식회사, 경기도 용인시 기흥구 삼성로 1 (농서동), KR

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Features for KRFULL and DEFULL on STN

- **Improved text quality**
- **Key terms** (for precise searching and efficient relevance checking) [HELP KEY](#)
- **Numeric property search** (59 physical properties searchable) [HELP NPS](#)
- **Standardized and normalized patent assignee names** [HELP PAN](#)
- **CPC combination sets** (searching multiple CPCs in same combination set retrieves highly relevant answers) [HELP CPC](#)
- **New update date for full text** (/UPTX)
- **More application details** (/PNO, /APO /PRNO)

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New features for DEFULL and KRFULL (1): UPTX

New update date **UPTX** for updated full-text

```

=> S (ELECTRIC? OR ENERG?) (2W) (BATTER? OR (STORAG? (2W) DEVIC?)) AND 20191215<UP
L1 7778 (ELECTRIC? OR ENERG?) (2W) (BATTER? OR (STORAG? (2W) DEVIC?)) AND 20191215<UP
=> S (ELECTRIC? OR ENERG?) (2W) (BATTER? OR (STORAG? (2W) DEVIC?)) AND 20191215<UPTX
L2 80 (ELECTRIC? OR ENERG?) (2W) (BATTER? OR (STORAG? (2W) DEVIC?)) AND 20191215<UPTX
=> D
L2 ANSWER 1 OF 80 DEFULL COPYRIGHT 2020 LNU on STN.
AN 5910763 DEFULL ED 20190926 UP 20200107 EDTX 20190926 UPTX 20191217
DUPD 20200102 Full-text
TIEN EQUIPMENT FOR VIEW OF DIRECTION OF ROTATION OF A ROTARY ONEBODY
TIDE GERAET ZUM ANZEIGEN DER DREHRICHTUNG EINES ROTIERENDEN KOERPERS
PA ...
  
```

ED	Entry date
EDTX	Entry date,
fulltext	
UP	Update date
UPTX	Update date,
fulltext	

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Additional features for DEFULL and KRFULL (1): PAS and PAN

Standardized and normalized patent assignee names: **PAS** and **PAN**

```

AN 6816539 DEFULL ED 20200107 UP 20200107 EDTX 20200107 DED 20191224 DUPD 20191224
TIEN A diffractive optical element and method for its manufacture
TIDE Diffraktives optisches Element sowie Verfahren zu dessen Herstellung
IN Quintanilha, Richard, DE, Heidenheim, 89522; Hetzler, Jochen, DE, Aale => HELP PAN
73434
PA Carl Zeiss SMT GmbH, Oberkochen, 73447, DE, [NAT: DE, RES: DE], for all
designated states
PAS CARL ZEISS SMT
PAN CARL ZEISS
LAF German
LA German
DT Patent; (Fulltext)
PIT DEAI DOC. LAID OPEN (FIRST PUBLICATION)
PI DE 102018221406 A1 20191224
...
  
```

PAS PATENT APPLICANT STANDARDIZED
A set of rules are applied to reduce the number of variations in spelling, punctuation, legal entities, etc.

PAN PATENT APPLICANT NORMALIZED
A semi-automated process to group based on the highest-level company name.

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KRFULL, DEFULL, etc.: Application and grants in one record

Accession Number 4440332

Application	KR 2019101900 A
	...
	...
Granted patent	KR 2030309 B1
	...
	...

Multi-level record with all corresponding publications connected to the application.

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Agenda



STN Database Enhancements

- Marpat & CAS Registry
- Embase, Medline
- DWPI
- DWPIM on STNext
- INPADOC
- DEFULL & KRFULL

STNext News

- Information and latest enhancements

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STNext

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Keeping Up with the Latest STNext Developments

- STNext releases occur monthly!
- Vehicles for staying up-to-date:
 - 1) STN News: bimonthly e-mail newsletter
 - 2) STN online news: view when you log in to STNext
 - 3) STNext Release Notes: most up-to-date
 - Access before logging on via Release Notes hyperlink
 - Access via Help

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The screenshot shows the STNext Help interface. On the left is a navigation menu with the following items: STNext Quick Start, Building the Query, Displaying and Formatting Results, Managing Your Session Transcript, Managing Your STNext Files, User Preferences, STNext Information (expanded), STNext Release Notes, STNext Resources, System Requirements, Terms and Conditions, and Contact Us. The main content area is titled "Release Notes" and lists several updates with dates and descriptions:

- April 1, 2019:** Updates to **Reporting** and **Delete Confirmation**
- February 15, 2019:** **Structures**, **Password Reset**, and **Performance Enhancement**
- December 19, 2018:** **Query Summary File** and **Settings Update**
- November 21, 2018:** **Sequence Searching** and **CAS Registry BLAST Alignment Report**
- October 11, 2018:** **DWPIM in STNext**
- September 27, 2018:** **Alignment Report for CAS Registry BLAST** and **Structure Editor Derwent Ge**
- September 14, 2018:** **Performance Improvements** and **Updated Structure Attribute Display**

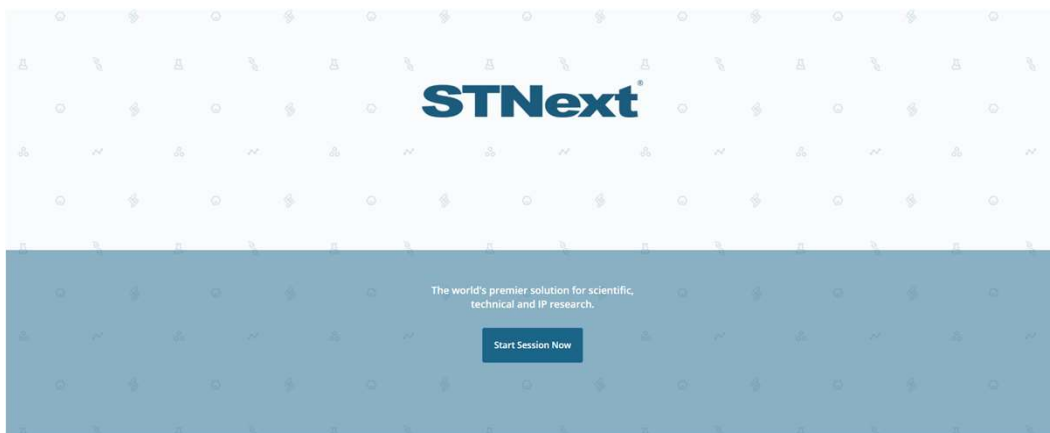
- Access before logging on via Release Notes hyperlink
- Access via Help

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Access STNNext via stn.org with your existing STN ID and password



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STNNext

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Stronger STN passwords increase your security

- If you choose to change your STN password, your new password will need to be “strong”
 - 7-15 characters
 - Not too similar to your STN loginID, or to your previous password
 - Includes at least three of the following:
 - Lowercase letters
 - Uppercase letters
 - Numbers
 - Non-alphanumeric characters (@, #, %, &, and * all work)
- Also applies to STNNext forgotten passwords
- HELP SET PASSWORD



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STNNext

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Import list of terms to create Search Term Script File

- Access from My Files -> Scripts
- Select search term file, e.g. list of patent numbers
- Define search field and term separator
- STNext creates script conforming to command line character limit of 256
- User executes script to be run in STNext

The screenshot shows the 'Create Search Term Script' dialog box in the STNext application. The dialog has a title bar with a close button (X). It contains the following fields and options:

- Field Code(s) to Search:** A text input field containing 'PN'.
- Example:** 'PN TL AB'.
- Select term separator type. Carriage returns are interpreted as separators.**
 - Comma
 - Space
 - Vertical Bar
 - Semicolon
 - Tab
- Enclose each search term in quotes.

Below the dialog, a code editor shows the generated script file content:

```
1 => QUE (CA3020308 OR CA3029725 OR CN109601297 OR CN109769687 OR CN109811002 OR
CN109824206 OR CN109837265 OR CN109837295 OR CN110129359 OR CN110129363 OR
IN201711039642 OR US10349609 OR US10398106 OR US10398109 OR US20190110421 OR
US20190116750 OR US20190124812)/PN \>_Inum1
2 => QUE (US20190124871 OR US20190124872 OR US20190124873 OR US20190124874 OR
US20190124875 OR US20190133014 OR US20190133015 OR US20190133065 OR US20190133066
OR US20190136250 OR US20190141931 OR US20190150387 OR US20190200501 OR
US20190246594 OR US20190246595 OR US20190254217)/PN \>_Inum2
```

STNext

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Revised transcript download files and status indicator

Transcript Download and Reporting Update

This release includes updates to UI changes when downloading transcripts.

Update	Before	After
Transcript Download This release adds two new download options: <ul style="list-style-type: none"> • RTF (Compressed) • PDF (Compressed) The ZIP format is now called Text (Plus Image Files) .		
Progress Indicator for Transcript Download	None	
Progress Indicator for Report Creation	None	

STNext

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Search Limits Have Been Expanded Exclusively in STNext

- You can now have up to 100 Million answers per file per session when searching databases on STNext
- Structure searchable databases CAS REGISTRY, MARPAT and CASREACT now allow up to 100 million iterations per search
- Allows to skip most sample search
- Refer to HELP SLIMITS within these databases, and to HELP LIMITS

DESCRIPTION	LIMIT
L-numbers	999
Answers per file per session (STNext*)	100,000,000
Answers per file per session	20,000,000

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Performance Enhancements on STNext

Settings

Autosuggest ON

Classic Display ON

Upload Structures as MdfFile ON

Performance Enhancement (Beta) Takes effect at next login ON

Transcript Download

Prompt at Logout/Logoff Hold ON

Transcript Format

Query Summary File

Prompt at Logout/Logoff Hold ON

Query Summary Format

Abbreviation

Audit ON

Logoff History (Last) ON

Multiple-step (MMsg) ON

Plurals ON

Spellings ON

Cost Notification (EUR)

Display Cost Notifications ON

Search Cost Notifications ON

Splits session window of STNext into pages for optimal use of browser memory. It does not affect captured transcript!

Further performance enhancements have also been realized in STNext

Transcript ON monitoring catalysts_str1_April2019

File WPIX

Previous Page

L3 ANSWER 4 OF 162 WPINDEX COPYRIGHT 2019 CLARIVATE ANALYTICS on STN
 AN 2019-03486B [201910] WPINDEX
 TI Composition for shaped article, comprises benzofuranone compound and polyolefin comprising polypropylene and polyethylene, and hindered phenolic antioxidant is N,N'-hexamethylenebis(3,5-di-tert-butyl-4-

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Autosuggest for Search and first letter L...

Settings

Autosuggest

Classic Display

Upload Structures as Modifiable

Performance Enhancement (beta) Takes effect at next login

Transcript Download

Prompt at Logout/Logoff Hold

Transcript Format

Query Summary File

Prompt at Logout/Logoff Hold

Query Summary Format

Abbreviation

Audit

Logoff History (LAST)

Multiple Step (MINS)

Plurals

Spellings

Cost Notification (EUR)

Display Cost Notifications

Search Cost Notifications

...brings up to 10 available L-numbers with a snippet of the query

L4 1076 L1 OR L3

=> s Polyvinylpyrrolidon? or PVPP

39578 POLYVINYLPIRROLIDON?/BI
23864 POLYVINYLPIRROLIDON?/BIEX
263 PVPP/BI

L5 L1 267 S ROTIGOTINE OR PVPP/BI, BIEX

=>
L2 ANALYZE L1 1-20 MC : 196 TERMS
L3 821 S B14-J01A3/MC AND B14-S18/MC
L4 1076 S L1 OR L3
L5 47709 S POLYVINYLPIRROLIDON? OR PVPP

^ => s|

Submit

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Autosuggest is command sensitive

FILE brings up file names

=> CASRNS (CAS Registry Numbers Cluster)
CASLINK (Linked CAS files (Predefined Search Sequences))
CANPATFULL (CA Patents full text from 1906)
CABA (CAB ABSTRACTS 1973-present)
CASREACT (The Chemical Abstracts Reaction Database)
CA (The Chemical Abstracts File)
CAPLUS (The Chemical Abstracts Plus File)

^ => fil ca

DISPLAY brings up available display fields/formats

=> HITSTR (DCR hit record which led to the retrieval of the bibliographic record)
HITPLE (Hit polymer indexing)
HITPLC (Hit polymer coding)
HITMEMB (All individual publications containing hit terms)
HITCODE (CMC, EPC, IPC, NCL, MC, PLC, PLE containing hit terms)
HITCMC (Hit chemical coding)
HIT (All fields containing hit terms)

^ => d allg hit

Search and Expand bring up terms based on the CAS Lexicon and L-numbers.

=> Cationic surfactants	=> Vavria
=> Cation exchange	=> Vavriov's law
=> Catecholamines	=> Vavaea
=> Catalysis	=> vav proto-oncogene pr
=> Catalyst supports	=> Vav protein
=> Catechol	=> vav Animal gene
=> Cathodes	=> Vavaea amicornum
=> Cattle	=> Vavria oncoperae
=> Catalase	=> Vavilovia formosa
=> Catalysts	=> Vavria culicis

^ => s cat|

^ => e vav|

L1 267 S ROTIGOTINE
L2 ANALYZE L1 1-20 MC : 196 TERMS
L3 821 S B14-J01A3/MC AND B14-S18/MC
L4 1076 S L1 OR L3
L5 47709 S POLYVINYLPIRROLIDON? OR PVPP

^ => s|

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STNext

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Create reports from transcripts

1 My Files

2 STNext basics
currently active

3 Reporting

Alerts

Transcripts

Structures

Scripts

Report

Continue

Move

Delete

Include L#s
Clear | Expand All

L3 L2/DCR (11)

L4 L3 AND UPIT>2019... (7)

Use Template Manage Custom

Journal

Patent

Patent and Journal

Substance Report

Sequence Reporting Extended

Use Format

Standard

Enhanced

Table

Include BLAST Alignment File

Customize Next Cancel

- STNext offers text document and table reports
- Predefined templates are available, custom templates can be created

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STNext

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Create reports from transcripts

1 My Files

2 STNext basics
currently active

3 Reporting

Alerts

Transcripts

Structures

Scripts

Report

Continue

Move

Delete

Include L#s
Clear | Expand All

L3 L2/DCR (11)

L4 L3 AND UPIT>2019... (7)

Use Template Manage Custom

Journal

Patent

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Document Title
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