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STN[®]
THE CHOICE OF PATENT EXPERTS[™]

FIZ Search Service Study on COVID-19 Drug Candidate Showcase for STN[®]'s Tools and Content

A study by the [FIZ Search Service](#) on the legal situation of the COVID-19 drug candidate Favipiravir (drug name Avigan[®]) showcases the power of STN's sophisticated retrieval tools and value-added content.

Using the example of Favipiravir which was developed against bird flu and Ebola, the case study created by the [FIZ Search Service](#) demonstrates how these questions are answered by means of an extensive search in STN's unsurpassed collection of value-added chemical substance and patent databases.

The key patents cannot be retrieved by a simple chemical name search in first level databases (i.e. patent full-text databases) but only by a thorough structure search in

Use case background: As soon as a potential drug candidate against COVID-19 has been approved, the drug must be rapidly manufactured and distributed worldwide.

It is essential to take existing industrial property rights into account and, if necessary, to conclude appropriate license agreements. The legal situation, e.g., regarding the patent owners or the duration of the remaining patent protection in different countries, must be determined reliably and in good time.

curated substance databases. STN does not only provide the unique collection of valuable content but also the precise tools to retrieve highly relevant results in an efficient way. Among the databases that were used are the authoritative CAS Registry[®] database and the Derwent Markush Chemistry Resource. The legal status of the key patents was further analyzed using the INPADOC database on STN and registers of the patent offices.

In a nutshell, the study found that although the original Favipiravir patent lost its patent protection in many countries, FUJIFILM Toyama Chemicals can still commercially exploit their original invention worldwide with a series of valid chemical process and formulation patents.

Read the complete case study "[Favipiravir, a drug candidate against COVID-19 - a FIZ Karlsruhe case study exploring the patent situation](#)"

To learn more about how the structure search was conducted on STN we recommend this [recorded e-Seminar](#) on multi-file structure searching on STNext[®] which uses the Avigan[®] structure as example.

The Study is part of a series of articles available at "[FIZ Special Corona](#)".

e-Seminars

[List of e-Seminars](#)

Interactive E-Learning Tutorials

Do you have new colleagues interested in learning the basics of STN commands? Our [e-Learning tutorials](#) offer to learn, practice or refresh STN basics in a modular, interactive way. Each module takes approximately 20 minutes to complete.



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DATABASE NEWS

Numerical Property Search Added to US Patent Full-Text Databases

Is it possible to identify documents with a specific numerical value of a property anywhere in a text field? Can you do it even though the original documents include only numerical ranges of this property and/or various kinds of units?

All this is possible with the Numerical Property Search (NPS) developed for STN which has been added to the US patent full-text databases USPATFULL and USPAT2 recently. These two databases are complementing the "NPS Cluster" of 25 patent and scientific databases equipped with this feature, among them also databases like the Derwent World Patents Index, PCTFULL, Compendex or CABA.

Where can you search numerical properties?

NPS enables numerical searches to be performed for a specific set of physical property data having been identified in USPATFULL and USPAT within all text indexed in the abstract, claims, description and more (fields AB, CLM/ECLM, DETD, DRWD, GOVI, PARN, REN and SUMM).

Search field codes and related text for all physical properties available for numerical property searches have been indexed in the /PHP search field.

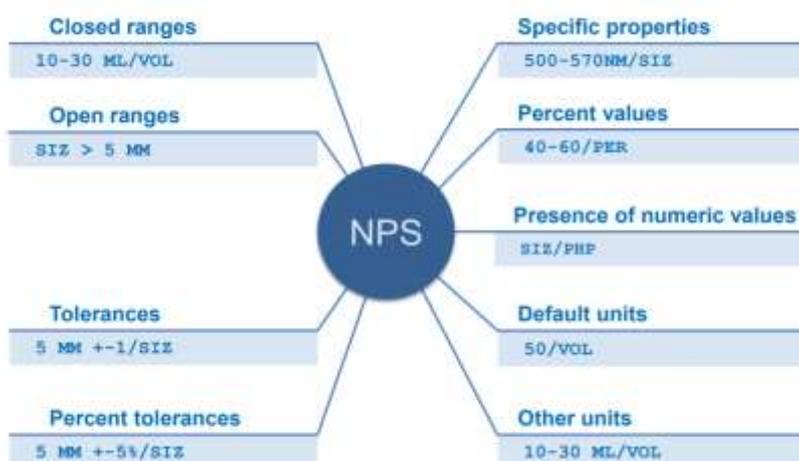
Which numerical properties are searchable?

Altogether 60 physical properties such as energy or pressure have been recognized. Most of them are given in base or derived SI units. Additional units found in the text (particularly CGS-, imperial, and US customary units) are normalized to their respective base units for indexing purposes, e.g. bar or Torr to Pascal as base unit of pressure. More than 20,000 variants of the base and additional units are identified, in particular, prefixes like micro-, milli- or centi-, the unit name for the unit symbol and spelling variants.

What kind of numerical property searches are available?

Generally the Numerical Property Search feature builds up on the standard STN numerical search features. Therefore features like tolerance specification, rounding, open and closed ranges are available.

Numeric Property Search expressions



Variations in the physical property units in the search statements are accepted by the online system and standardized as well. A search for a TEMPERATURE (/TEMP) specified in the query in any unit, e.g. Degrees Celsius, will therefore find corresponding temperatures regardless of the unit specified in the text.

Can NPS searches be combined with text searches?

Numeric search terms can be combined with text-based search terms of interest, using standard text-based proximity operators. Combining the numeric search terms with the text search terms in a certain text field, e.g. Claims (/CLM), will specify the Numerical Property Search.

Example for a search in the claims:

```
=> s (polyplex(5a)particle size)/clm (10a)150-250nm/siz
=> d bib hit

L6 ANSWER 1 OF 1 USPATFULL on STN
PatentPak PDF | PatentPak PDF+ | PatentPak Interactive
AN 2016:94354 USPATFULL Full-text
TI Arginine-Grafted Bioreducible Polymer Systems and Use in
   Treatment of Cardiac Conditions
IN Kim, Sung Wan, Salt Lake City, UT, UNITED STATES
   Lee, Young Sook, Salt Lake City, UT, UNITED STATES
   Lee, Minhyung, Gwacheon-city, KOREA, REPUBLIC OF
PA UNIVERSITY OF UTAH RESEARCH FOUNDATION, Salt Lake City, UT,
   UNITED STATES (U.S.corporation)
PI US 20160083522 A1 20160324
AI US 2015-14891289 A1 20140514 (14)
   WO 2014-US112 20140514
   20151113 PCT 371 date
PRAI US 2013-61855374 20130514 (61)
DT Utility
FS APPLICATION
CLMN Number of Claims: 48
ECL Exemplary Claim: 1
DRWN 12 Drawing Page(s)
LN.CNT 1319
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
CLM What is claimed is:
    2. The polyplex of claim 1, wherein the polyplex has a particle size
    of from about 100 nm to about 500 nm.
```

More information

Detailed information on numerical property search and examples are given in the databases (HELP NPS), in the database summary sheets and on the [STN home page](#).

This [E-seminar](#) will highlight the value of numerical property searching for your general workflow and exemplify how to search and retrieve relevant records efficiently.

Numerical property search will be added to more databases, so stay tuned

Second 2020 Update to Emtree® with Special Attention to Covid-19-Related Content

The second 2020 update to Emtree, the Embase thesaurus, is now available on STNext® and other STN platforms. For this release, 704 new preferred terms were added. This includes 561 non-drug terms and 143 drug terms. Emtree now includes over 86,750 preferred terms and more than 412,000 synonyms, and is a rich source for search terminology for the biomedical and medical devices literature. This release paid special attention to the adding of terminology to assist the indexing of COVID-19-related content:

E1	86857	BT9	virus/CT
E2	10951	BT8	RNA virus/CT
E3	192	BT7	single-stranded RNA virus/CT
E4	165	BT6	positive-strand RNA virus/CT
E5	168	BT5	Nidovirales/CT
E6	945	BT4	Coronaviridae/CT
E7	2065	BT3	Coronavirinae/CT
E8	2032	BT2	Betacoronavirus/CT
E9	402	BT1	SARS-related coronavirus/CT
E10	5501	-->	Severe acute respiratory syndrome coronavirus 2/CT
		TYPE	medical term
		HNTE	Creation date 01 May 2020
E11	0	UF	2019 new coronavirus/CT
E12	147	UF	2019 novel coronavirus/CT
E13	0	UF	2019-nCoV/CT
E14	0	UF	HCoV-19/CT
E15	1	UF	Human coronavirus 2019/CT
E16	2	UF	SARS Coronavirus 2/CT
E17	0	UF	SARS-CoV-2/CT
E18	0	UF	SARS2 (virus)/CT
E19	0	UF	Wuhan coronavirus/CT
E20	0	UF	Wuhan seafood market pneumonia virus/CT
E21	0	UF	nCoV-2019/CT
E22	1	UF	novel 2019 coronavirus/CT
E23	9	UF	novel coronavirus 2019/CT

143 new drug concepts were added in release 2020.02, highlights include:

- The United States Adopted Names (USAN) published from Nov. 2019 until Jan. 2020.
- Names of newly approved drugs, drugs under consideration, orphan drug assignments and drug trade names as published by the FDA and EMA in the period Nov. 2019 - Jan. 2020.

82 new device concepts were added, highlights include:

- Expanded the field of diagnostic test kits.
- 940 GMDNs and definitions to existing and new concepts providing connection with terms as used by FDA's GUDID.
- 8 device trade names of new FDA approved devices, covering all FDA approved devices to date.
- 1,030 alternative labels to medical device concepts.

Further details of this Emtree update are available at:

<https://p.widencdn.net/sordth/Emtree-terms-added-and-changed-May-2020>

COMPENDEX adds New Fields for Author Identifier and Source URLs

COMPENDEX now includes the two new fields AUID (AAuthor IDdentification) and source URL. Both fields are available for data that entered the file since 2015.

The AUID field includes ORCID author identifiers. ORCID identifiers provide a means to unambiguously identify a particular author, even authors who have published under different names. Author identifiers in the AUID field are searchable, and records which include the AUID field can be found using AUID/FA. The field is available in the predefined format MAX or as custom display (hyperlinked), e.g.:

AUID ORCID: <https://orcid.org/0000-0002-6036-4709> (Dobrovetsky Roman)
 ORCID: <https://orcid.org/0000-0002-9651-2902> (Gandelman Mark)

As the volume of records with ORCID identifiers grows, this provides searchers with the opportunity to expand the comprehensiveness of their author searches in a number of databases on STN, including COMPENDEX, EMBASE, and MEDLINE®.

The URL field contains URLs for the source information, e.g.

www.elsevier.com/locate/tibtech for the journal „Trends in Biotechnology“. See STN record from the COMPENDEX database with the source URL included below.

L1 Journal | English |

Sustainable Transformation of Land-Based Economic Development in the Era of Digital Revolution

[Full-text](#)

Accession Number: 2020-2508849583 COMPENDEX

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Source: Trends in Biotechnology (2020), 15 refs.

ISSN: 0167-7799 E-ISSN: 1879-3096

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EVENTS

Extended STN e-Seminar Program

Our extended STN e-seminar program continues with NPS in USPATFULL.

[New Team Members for Numeric Property Searching on STNNext – the USPAT databases](#)

on July 16

New !

We now also offer so-called [coffee lectures](#) - short (10 min.) sessions on various topics, easily explained. The next ones scheduled are while you can have your coffee:

[Coffee Lecture: W, 5A, L, S or P? – Proximity operators for precise retrieval](#)

on August 4

[Coffee Lecture: Identify the best databases for your search topic – tips around the INDEX command](#)

on August 5

[Coffee Lecture: Technology Focus, Use, Advantage, etc – benefit from the highly structured Derwent abstract](#)

on August 6

Also available are [recordings](#) of the first series. If you do not want to miss any events in the future, just sign up for the [STN training newsletter](#)

