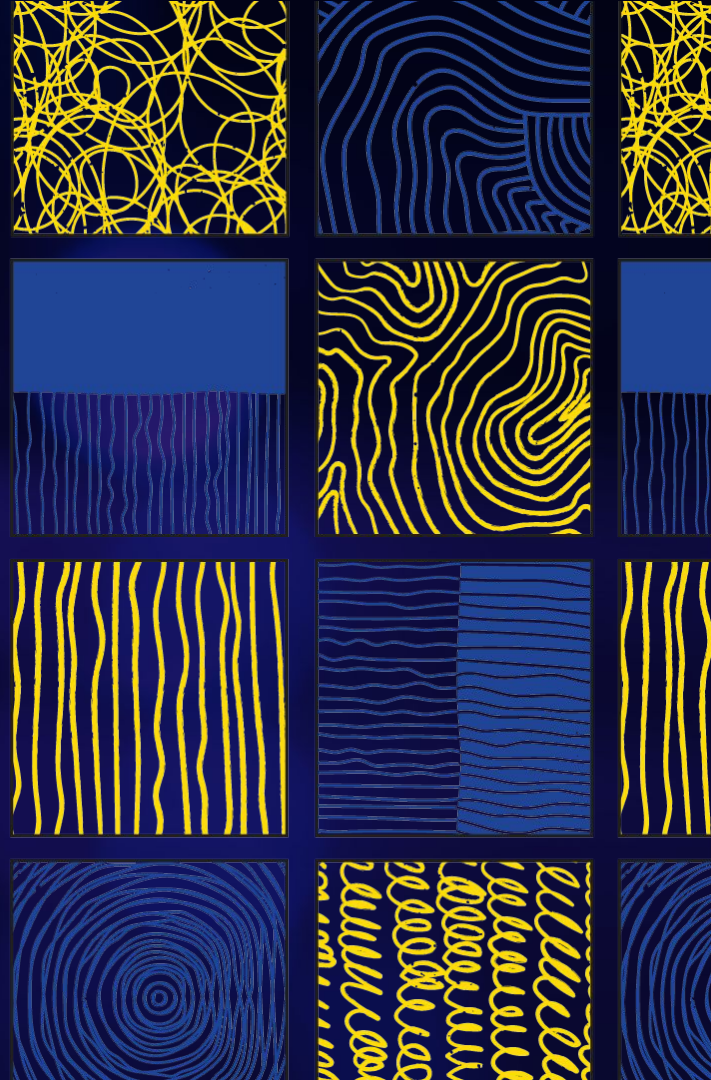
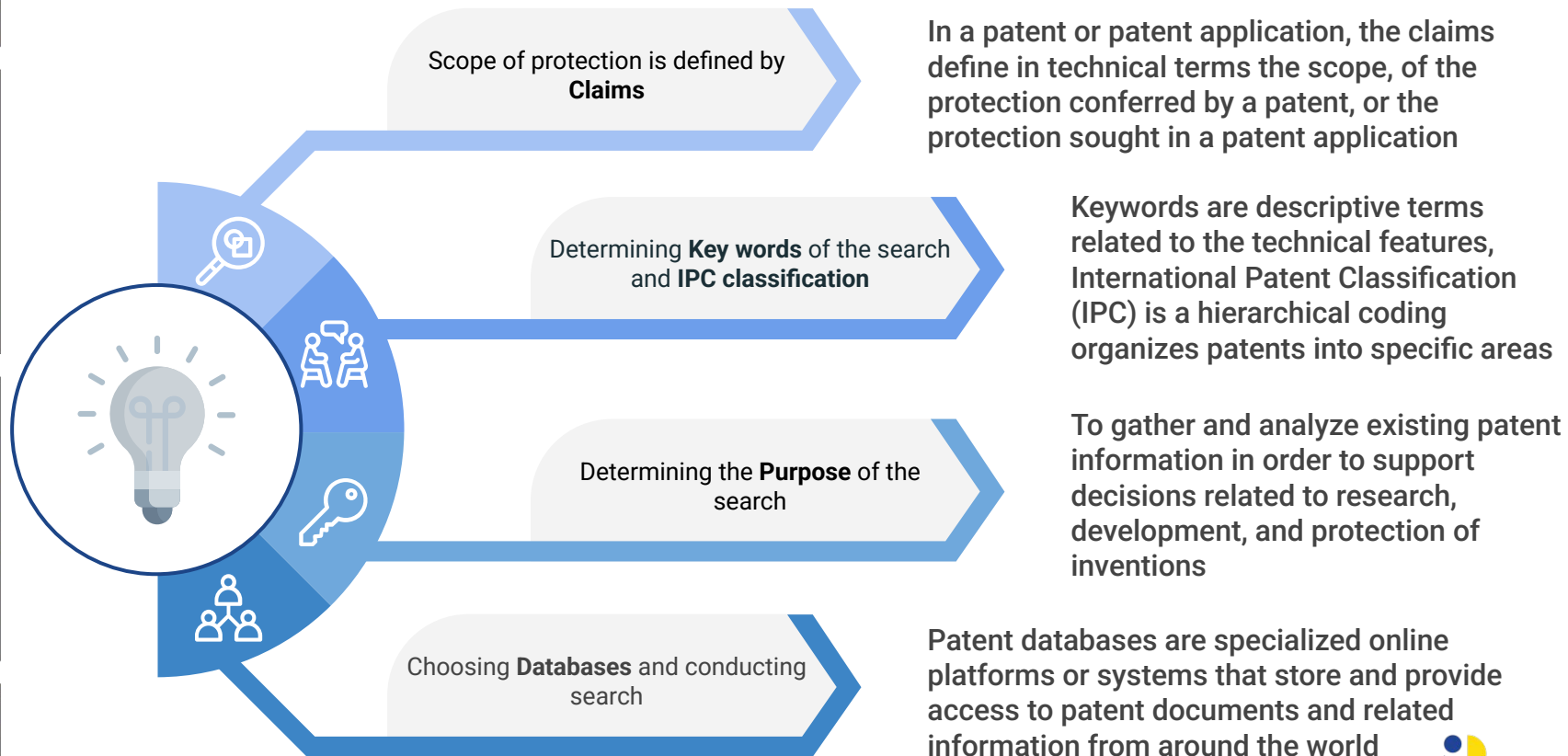


# Patent databases and access to patent information, specialized patent search

Ihor Shevchenko deputy head of the unit of the innovation  
indicator analysis and patent information



# General information about searches



# Prerequisites for acquiring strong patent

## Patent application

### Search

Conduct thorough search for novelty to define patentability

### Registration

Registration of the application and grant process



### Documents

Prepare all the required documents for application and pay standard fees

### Application

Send all application documents in paper form or using systems for electronic application

# General information about purpose of the search

## Patent landscape

Provide patent situation of a specific technology

## Freedom to operate

The ability to legally commercialize that invention

## State of the art search

(Prior art search)  
Everything disclosed to the public, including non-patent literature



## Novelty search

Conducted regarding whether your innovation is new, unique, and can be patented

## Patent information search

Find existing patents, published patent applications

## Patent market analysis

Systematic scientific analysis of the properties of an economic activity object throughout its life cycle

# Determining the subject of the search

Searching for a particular patent or application, full text or claims

Patent



Invention

Searching for specific invention or citation in different patents

Searching in the technological field with all relevant patents

Field



Retrospective

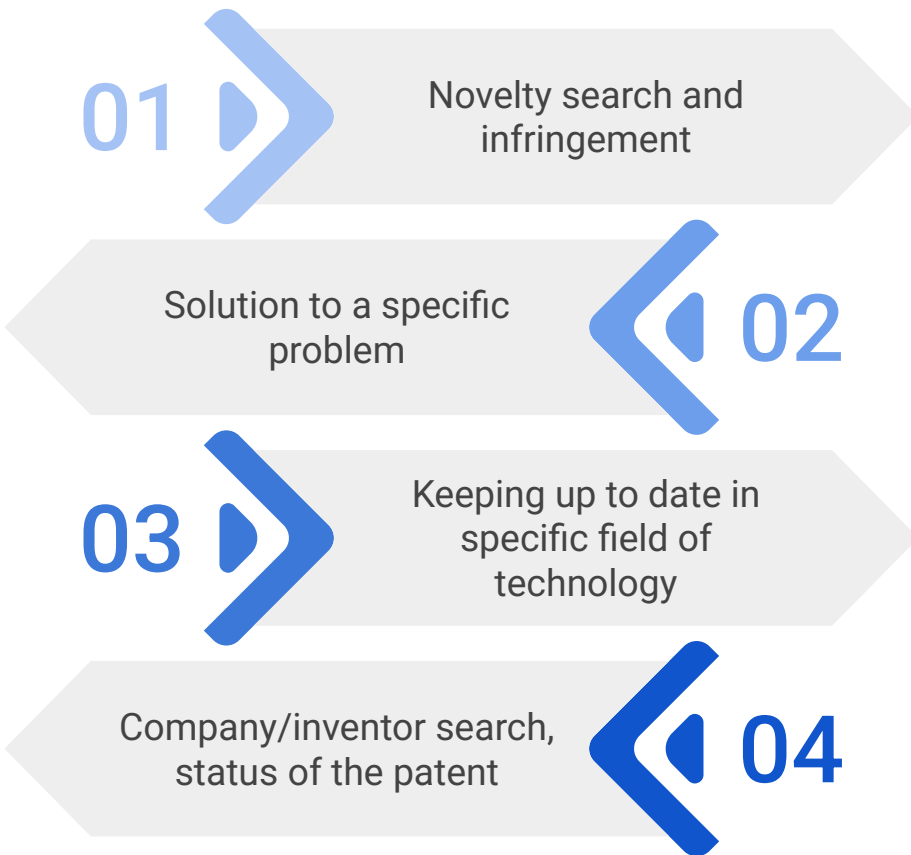
Determining the scope of time search whether 20 years or limitless time period

Searching for specific legal entity or natural person

Entities



# Determining the purpose of the search



**Novelty** — Is this idea already protected by an existing patent?

**Infringement** — Is someone attempting to use or patent an idea that's already protected?

**Solution to a Technical Problem** — Has someone already addressed the problem you're trying to solve?

**Free Technology** — Are there expired patents you could legally use?

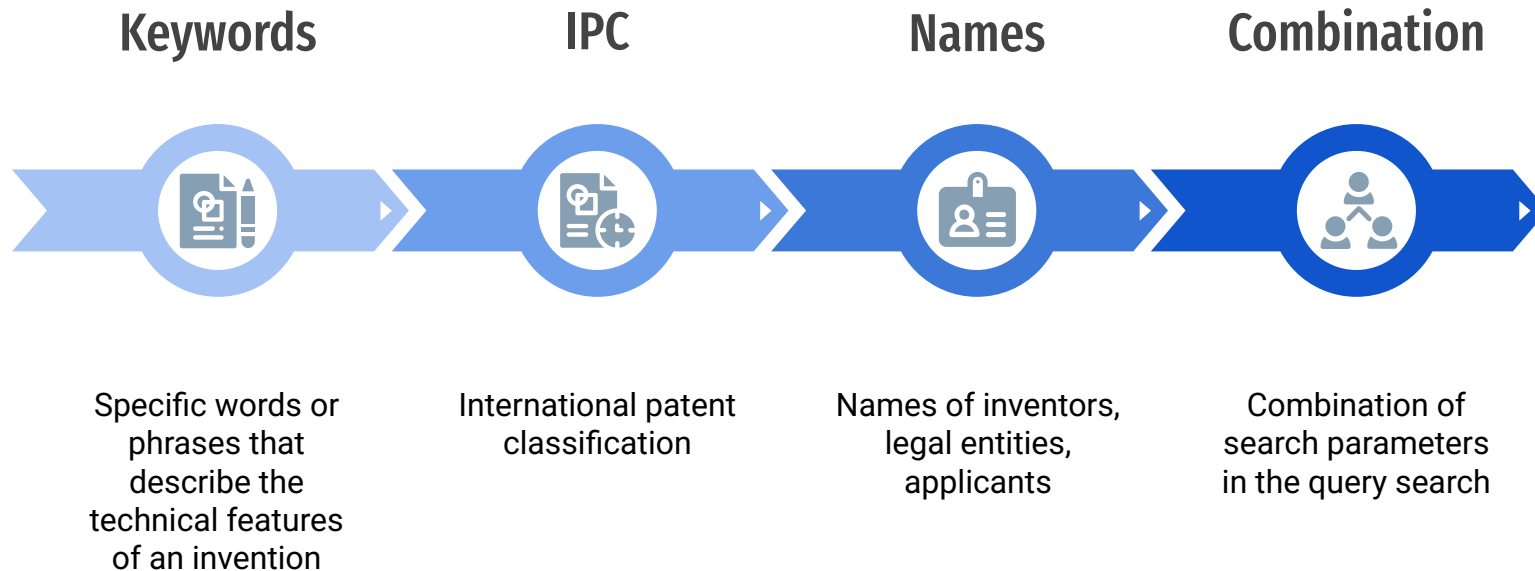
**Keeping Up to Date** — Stay informed by browsing valuable technical knowledge within your field.

**Company/Inventor Searches** — What are your competitors and peers working on?

(A widely used tool for monitoring competition and identifying potential infringement risks.)

**Status** — What is the legal status of the patent you're interested in — pending, granted, or expired?

# How are you searching





# Key words and IPC classification

**UAV**

**Unmanned aerial vehicle**

**Drone**

**Vertical take-off and landing**

**Fixed-wing aircraft**

**Flying platforms**

**B** defines the general class such as:  
PERFORMING OPERATIONS; TRANSPORTIN

**B64** defines specific for aviation:  
AIRCRAFT; AVIATION; COSMONAUTICS

**B64U**

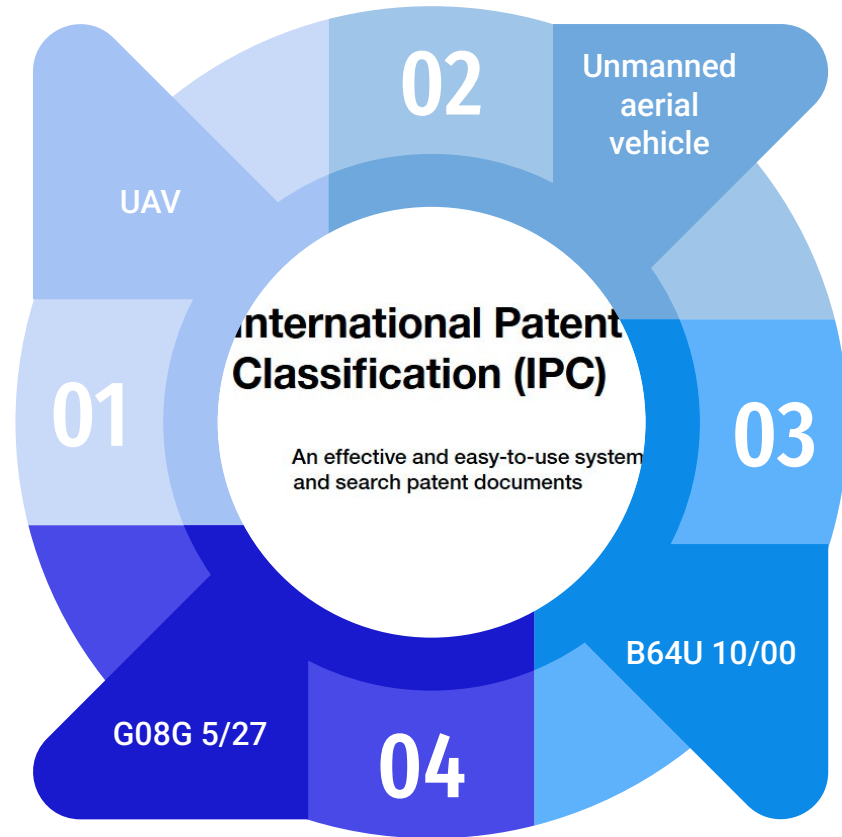
UNMANNED AERIAL VEHICLES [UAV];  
EQUIPMENT THEREFOR [2023.01]

**B64U 10/00**

Type of UAV [2023.01]

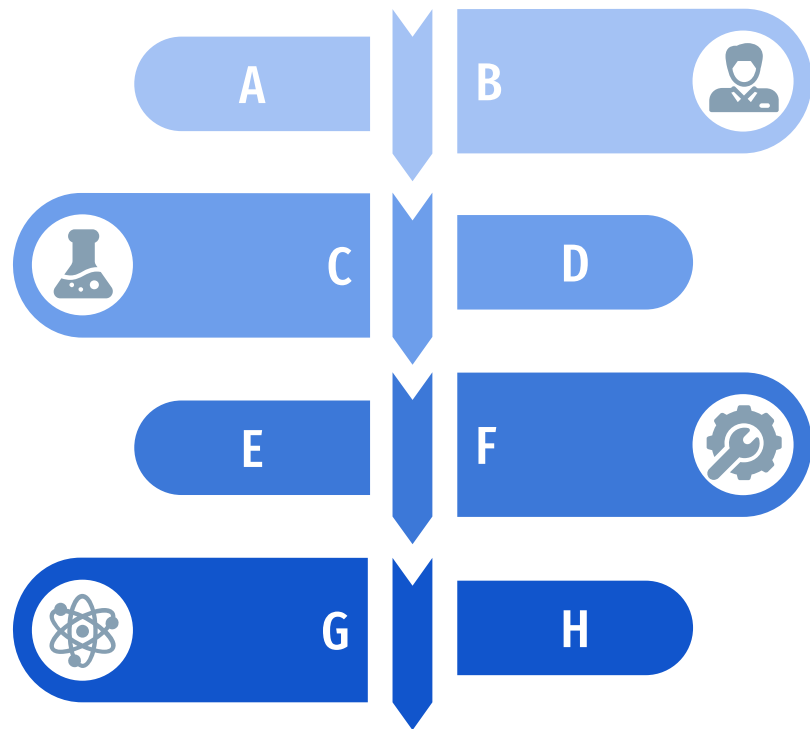
**G08G 5/27**

for managing network coverage, e.g. ensuring  
transmission connections for UAVs [2025.01]





# IPC classification



**A: Human necessities**

**B: Performing operations; transporting**

**C: Chemistry; metallurgy**

**D: Textiles; paper**

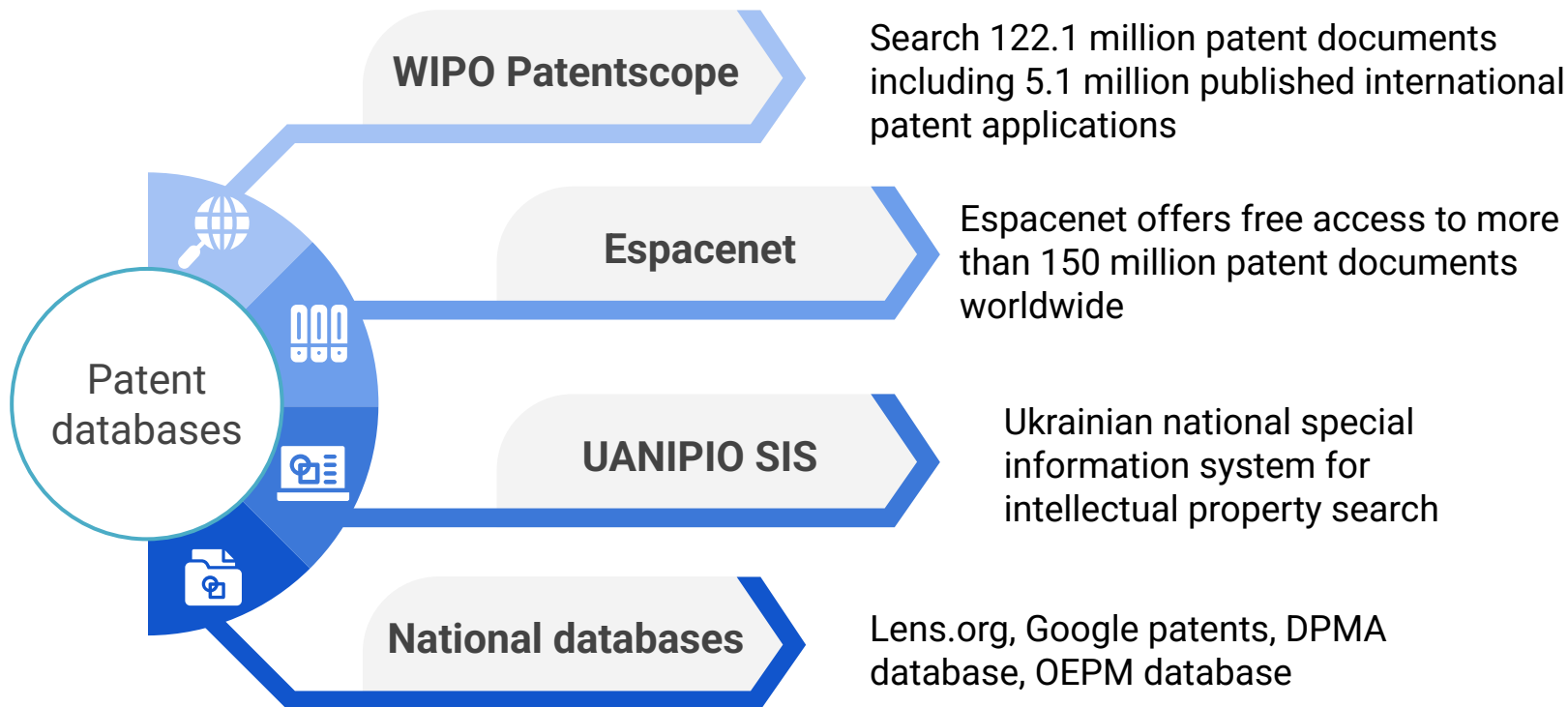
**E: Fixed constructions**

**F: Mechanical engineering; lighting; heating; weapons; blasting**

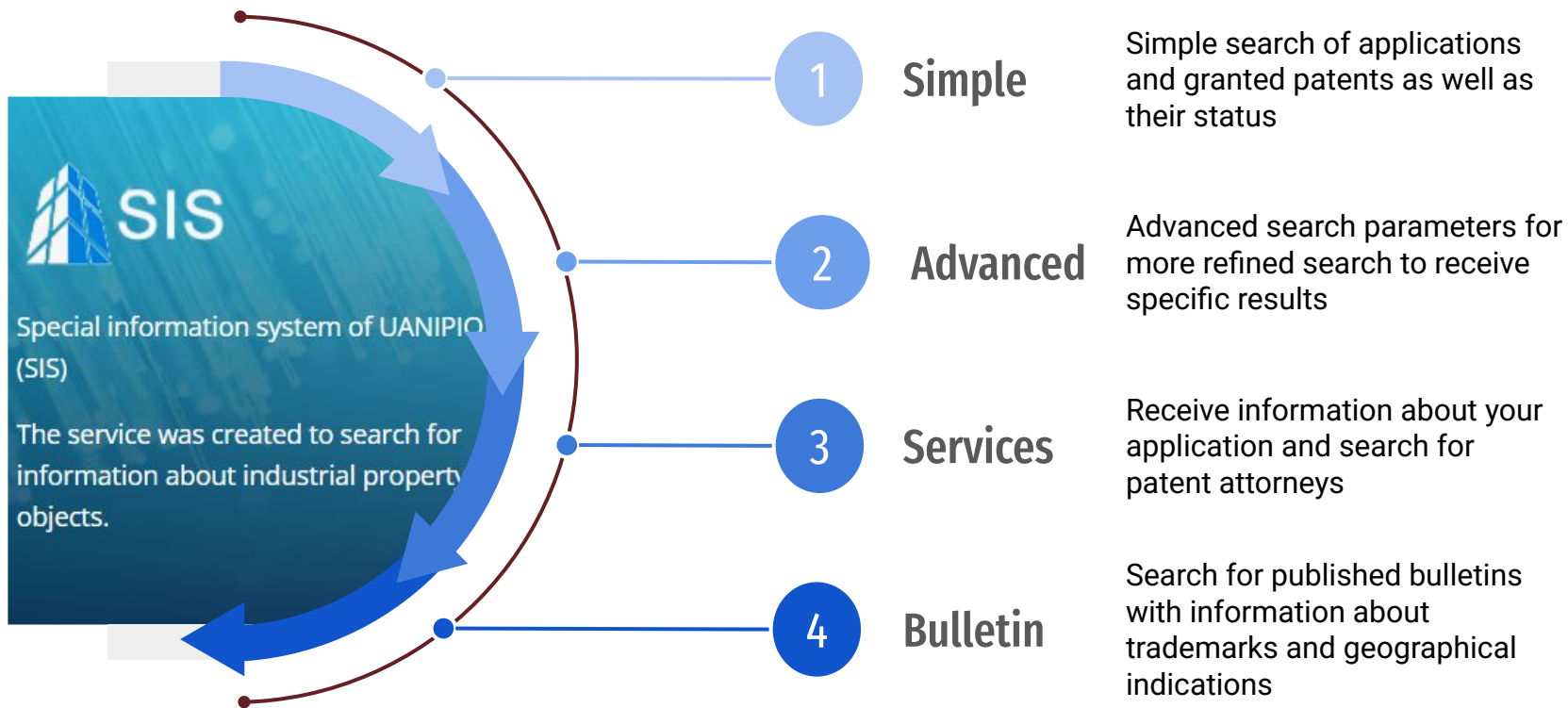
**G: Physics**

**H: Electricity**

# Patent databases for search



# UANIPIO Special information system



# UANIPIO Special information system



UANIPIO SPECIAL  
INFORMATIONAL SYSTEM

SEARCH ▾

SERVICES ▾

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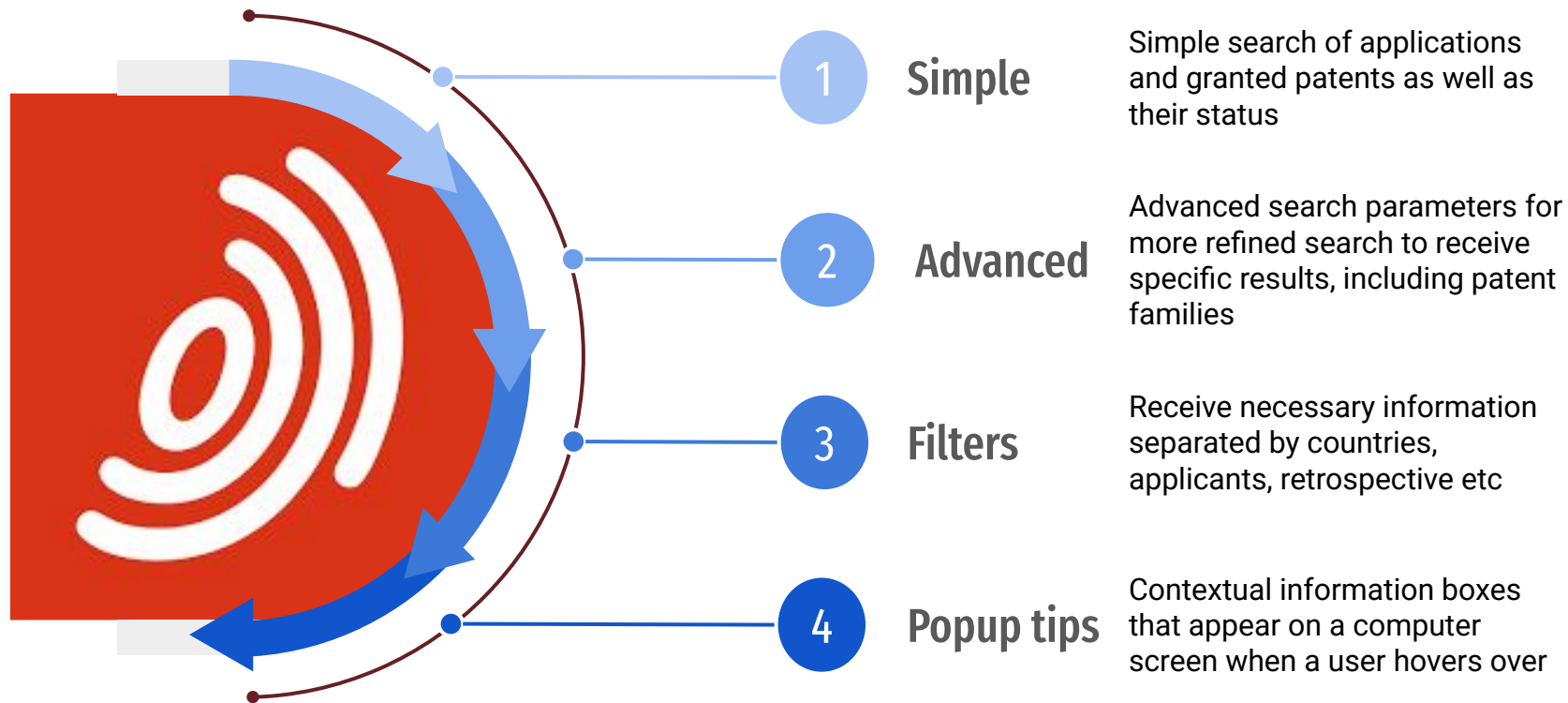
## Advanced search

Home / Search / Advanced search


Fill out the form below to search

Inventions ▾	Protective document ▾	(22) Date of filing of the a... ▾	Select date range 	—
Utility models ▾	Protective document ▾	(54) Title of the invention ▾	UAV	—
Inventions ▾	Claim ▾	(51) Internmtional pate... ▾	B64U	—
Utility models ▾	Claim ▾	(72) Inventor's country co... ▾	UA	—
+ Add parameter				Q Show results

# Espacenet search system



# Espacenet search system

**Espacenet**  
Patent search

UAV OR unmanned aerial vehicle

Office/Language

My EspacenetHelpClassification searchResultsAdvanced searchFiltersPopup tipsReport data errorFeedback

Home > Results > US11492112B2

Query language: en de fr

OR + Field

All text fields or names  
= → Group  
UAV

All text fields or names  
= → Group  
unmanned

All text fields or names  
= → Group  
aerial

All text fields or names  
= → Group  
vehicle

FamilyPublication

Countries (family)

Languages (family)

Earliest publication date (family)

Family

Earliest priority date

IPC main groups

IPC subgroups

CPC main groups

CPC subgroups

CPC assigning offices

Applicants

Inventors

Publication

Applicants - country

Inventors - country

222 534 results found

List viewList contentSort byText onlyAllRelevance

☐ (0 patents selected) Select the first 20 results

☐ 1. **UNMANNED AERIAL VEHICLE**  
US11492112B2 (A1) • 2022-11-08 • AUTEL ROBOTICS CO LTD [...]  
Earliest priority: 2017-07-21 • Earliest publication: 2019-01-24  
...The present invention relates to the field of air vehicle technologies and provides an unmanned aerial vehicle (UAV), including a vehicle body and arms connected to the vehicle body. The arm is hinged to the vehicle body by using a... is connected to the

☐ 2. **APPARATUS AND METHOD FOR GUIDING UNMANNED AERIA...**  
EP3751755A1 (B1,C0) • 2020-12-16 • DIMETOR GMBH [AT]  
Earliest priority: 2019-06-14 • Earliest publication: 2020-12-16  
...The present disclosure provides an apparatus and a method for computing data for guiding unmanned aerial vehicles (UAVs) in a... present disclosure enable modeling and predicting a current coverage and connectivity state of 3D air space and facilitates

☐ 3. **UNMANNED AERIAL VEHICLE AND METHOD FOR CONTROLL...**  
US11294369B2 (A1) • 2022-04-05 • SAMSUNG ELECTRONICS CO L...  
Earliest priority: 2016-11-30 • Earliest publication: 2018-05-31  
...An unmanned aerial vehicle (UAV) and a method for controlling the flight of the UAV are provided. The UAV provides a motion feedback corresponding to a user command received and a method for controlling the flight of the UAV. The... user and the UAV and

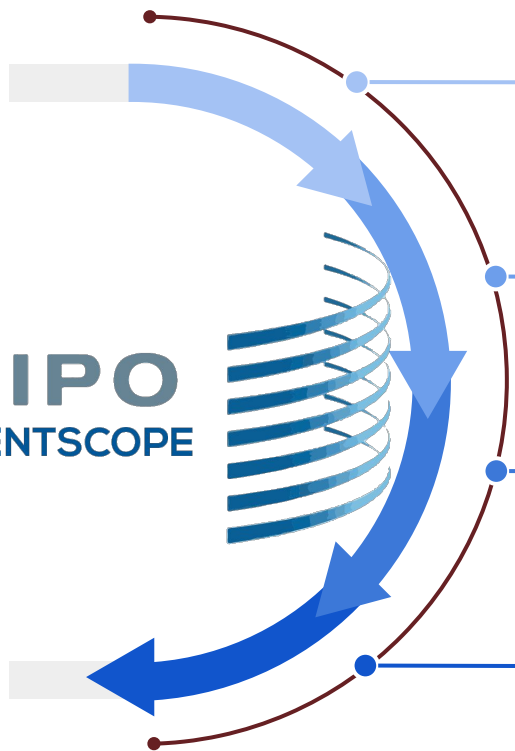
☐ 4. **UNMANNED AERIAL VEHICLE CONTROL SYSTEM AND UNMA...**  
EP3575896A1 (A4,B1) • 2019-12-04 • LIAONING ZHUANGLONG UN...  
Earliest priority: 2018-04-13 • Earliest publication: 2018-09-28

☆ US11492112B2...  
Available in  
Bibliographic data  
Global Do:  
Applicants  
Inventors  
Classifications  
IPC  
CPC  
Priorities  
Application  
IP OFFICE  
интеллектуальной собственности



# Patentscope WIPO

**WIPO**  
PATENTSCOPE



1

**Simple**

Simple search of applications and granted patents as well as their status

2

**Advanced**

Use of search fields, operators and criteria to build advanced queries from scratch

3

**Field**

Use and combine many predefined fields to build more complex queries

4

**Cross lingual**

Use CLIR to add synonyms and their translations to your query in order to search in collections disclosed in a foreign language



## PATENTSCOPE Field Combination ▼

		Field Front Page	▼	Value	?
Operator AND	▼	Field WIPO Publication Number	▼	Value	?
Operator AND	▼	Field Application Number	▼	Value	?
Operator AND	▼	Field Publication Date	▼	Value	?
Operator AND	▼	Field English Title	▼	Value	?
Operator AND	▼	Field All Classifications	▼	Is Empty: N/A	▼
Operator AND	▼	Field Licensing availability	▼	<input type="checkbox"/>	

(+) Add another search field    (−) Reset search fields

# National patent databases

You are in: Search Inventions

## Search Inventions

Mode: 

Seleccione...

Filing date from:

Publication number:

Publication date from:

Applicant/Owner:

Agent/Representative:

Number of Priority:

CIP Clasification:

Status: 

Seleccione...

Number of application

Filing date to:

Key words on title

Publication date to:

Inventor:

Agent Code

Priority date:

Search

Clean

## Basic search

Information on the International Patent Classification (IPC) available at [IPC](#)

Enter search query

Type of IP right ?

☒ Patent ☒ Utility model ☒ Protection certificate

File number ?

e.g. 102010064471.4

Title ?

e.g. Mikroprozessor

Applicant/owner/inventor ?

e.g. Schmidt GmbH

Date of publication ?

☒ Date 

e.g. 03.02.2011

☐ Period (from/to) 

mm/dd/yyyy

IPC main class/secondary class ?

e.g. F17D 5/00

Filter ?

☐ IP rights in force

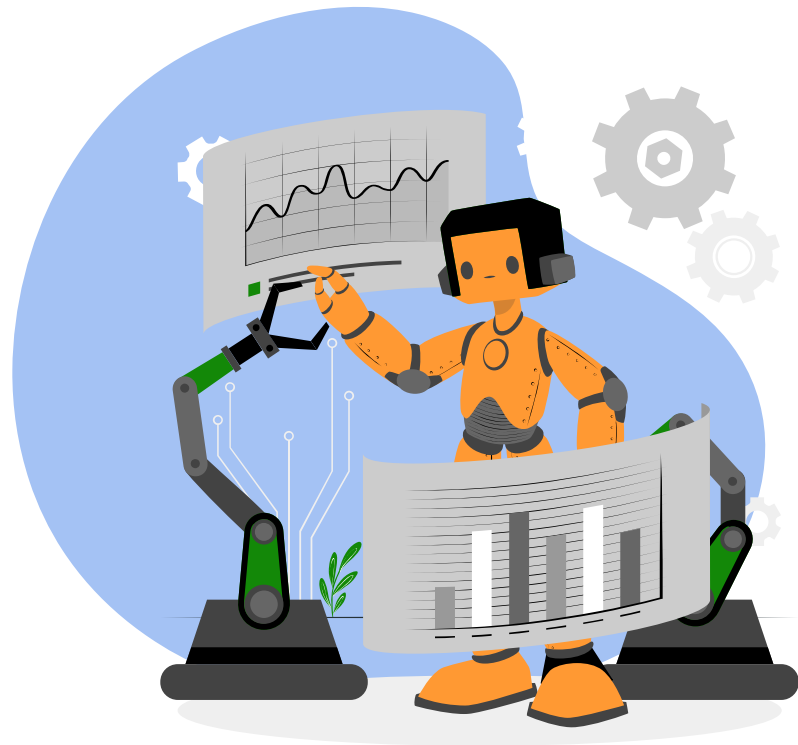
Show result list configuration

Start search

Delete request

# ASPI WIPO

The Access to Specialized Patent Information (ASPI) Program was developed as a public-private partnership by the World Intellectual Property Organization in collaboration with its partners LexisNexis, Minesoft, Questel, and WIPS Global, among others. The goal of this partnership is to support developing countries in better exploiting their innovation potential by using the valuable information contained in patent documents to develop new solutions to technical problems that arise at the local and international levels.



# ASPI patent databases

## **LexisNexis TotalPatent One**

LexisNexis TotalPatent  
One



## **Minesoft**

PatBase Chemical Explorer  
PatBase Express



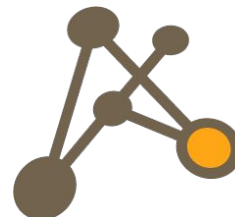
## **Questel**

Orbit Intelligence v1.9.8



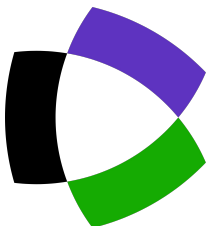
## **Ambercite**

Ambercite AI



## **Clarivate analytics**

Derwent Innovation



## **WIPS Global**

WIPS Global



## **Gridlogics**

PatSeer



## **PatSnap**

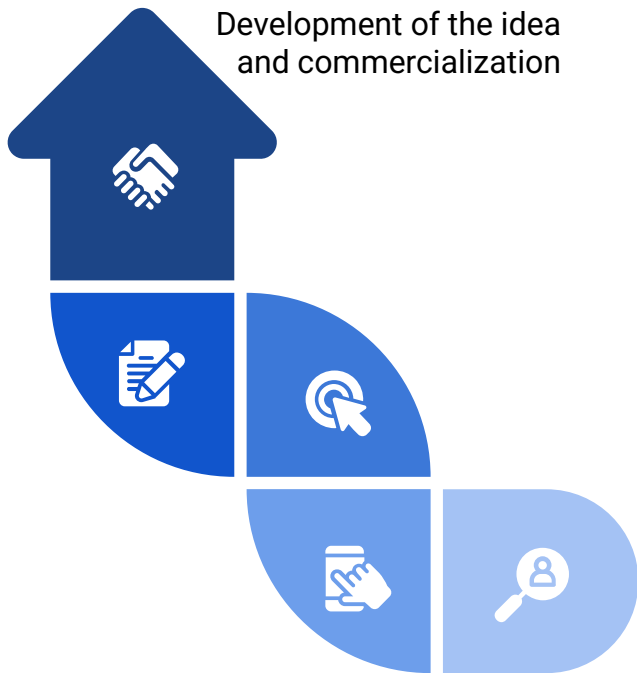
PatSnap Analytics +  
Insights



# Conclusion

## Development

Development of the idea  
and commercialization



## Idea

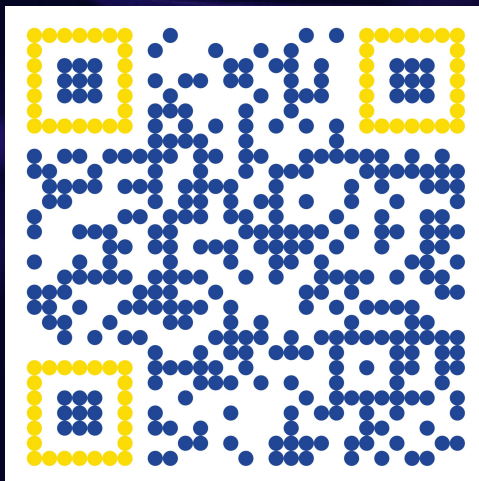
Creation of the concept

In today's fast-paced and competitive innovation landscape, conducting thorough patent searches is not just a formality — it's a strategic necessity.

Patent searches help ensure the novelty of new ideas, avoid potential infringement risks, and uncover valuable insights into technological trends, market opportunities, and competitor activity.

By effectively combining keywords and IPC classifications, inventors can navigate vast patent databases with precision, fostering smarter, more informed innovation decisions.

Ultimately, integrating patent search into the R&D and product development process strengthens intellectual property strategies, reduces legal risks, and supports the long-term success of any technology-driven venture.



IP OFFICE

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