

Simplified Query Syntax
Open Data Portal API
(Beta)

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Syntax

General rules

- String, date and character data is not quoted
- Numbers and Boolean are not quoted. Boolean are lower-case: true, false
- Fields names are not quoted
- We expect fields to exactly match the Index fields and JSON response (with a few exceptions)
- All reserved keywords start with an underscore _
- All dates must be in YYYY-MM-DD format, i.e. 2022-01-31 for January 31, 2022
- All conditional clauses will be separated by an ampersand &

Simplest Search

q=some value

‘q’ will search across multiple text and keyword fields for some value. In the case of a text “field”, it will be a case-insensitive search. In the case of the “keyword” field, it will be an exact match.

Please refer the section [Simplest Search Field Dictionary](#) below, linked in the document below, for values possible in the field=value match.

Simple field match

Any field can be matched by simply putting its name on the left-hand side (unquoted) and its value on the right-hand side (also unquoted): <field_name>=some value. The value should be quoted in the case of a string or a date and unquoted in the case of a number or a Boolean. (Additionally, Boolean is not case sensitive – we will convert it programmatically.) One can have any number of such matches. All string matches are case sensitive and all dates are YYYY-MM-DD format.

Please refer to the [Simplest Search Field Dictionary](#), linked in the document below, for values possible in the field=value match.

Examples:

filingDate=2022-01-12

filingDate=2021-03-11&firstInventorToFileIndicator=Y

Reserved Words

These field names will be used as ‘name’ in name=value query pairs. All reserved words are listed in the below.

All query values will be URL-encoded to avoid special character issues.

These keywords would only be used in a simplified query:

- **sort** – sorting order (one field only, ascending or descending)

sort=<field_name> or <field_name desc> or <field_name asc> (asc is the default). The field name should match the case of the index while “acs” and “desc” are case-insensitive (ASC, Asc, and asc are considered the same).

Example:

sort=patentNumber desc – sort results by patent ID in descending order

- **fields**, specifying a list of fields to be returned. By default, it will return all fields, including all nested JSONs.

fields=field_name1,field_name2,...

Example:

fields=patentNumber,inventorNameText,filingDate – will only return these 3 fields

- **limit** – number of results to be returned. Default size is 25.
- **offset** – starting position of the records list.

Example:

offset=0&limit=50

offset=50&limit=50

Operators

Comparisons

= numbers, dates, Boolean, string

Equal sign unquoted value: =Y, =Elon Musk, =2022-03-11

Lists

=one,two – search a field with an OR condition *one* or *two*. Used for any data type except Boolean.

The same as equal sign but with “;” showing an “or” condition.

Field Dictionary

Simplest Search fields:

The list below describes values possible in the `_search_text` match, referenced in this document under [Simplest Field Match](#).

As a search field, these fields can be queried as a partial string using “q”. The result will return all matches that at least partially matched.

applicationNumberText

docketNumber

firstNamedApplicant

firstNamedInventor

applicationConfirmationNumber

applicationStatusDescriptionText
 applicationTypeLabelName
 applicationTypeCategory
 inventionTitle
 patentNumber
 earliestPublicationNumber
 wipoReferenceNumber
 internationalRegistrationNumber
 examinerNameText
 cpcClassificationBag
 applicantBag
 inventorNameText
 reelNumber/frameNumber
 assignorName
 assigneeName
 caseActionCode
 caseActionDescriptionText

Simple Field Match fields

The table below describes values possible in the field=value match, referenced in this document under [Simple Field Match](#).

These fields can be queried directly using a match operator or range. The match is case-sensitive and must be exact. For example, firstNamedApplicant=Elon Musk

Field Name	Field Type	Values
applicationNumberText	keyword	Exact case-sensitive string
nationalStageIndicator	boolean	Exact Y or N
smallEntityStatusIndicator	boolean	Exact Y or N
publicationTypeBag	keyword	Exact case-sensitive string
docketNumber	keyword	Exact case-sensitive string
firstInventorToFileIndicator	keyword	Exact case-sensitive string

firstNamedApplicant	keyword	Exact case-sensitive string
firstNamedInventor	keyword	Exact case-sensitive string
applicationConfirmationNumber	keyword	Exact case-sensitive string
applicationStatusDate	date	YYYY-MM-DD such as 2023-02-03
applicationStatusDescriptionText	keyword	Exact case-sensitive string
filingDate	date	YYYY-MM-DD such as 2023-02-03
effectiveFilingDate	date	YYYY-MM-DD such as 2023-02-03
issueDate	date	YYYY-MM-DD such as 2023-02-03
groupArtUnitNumber	keyword	Exact case-sensitive string
applicationTypeCode	keyword	Exact case-sensitive string
applicationTypeLabelName	keyword	Exact case-sensitive string
applicationTypeCategory	keyword	Exact case-sensitive string
inventionTitle	keyword	Exact case-sensitive string
patentNumber	keyword	Exact case-sensitive string
applicationStatusCode	long	Exact number, i.e. 12345
businessEntityStatusCategory	keyword	Exact case-sensitive string
earliestPublicationNumber	text	Full or partial string, case-insensitive
publicationDateBag	date	YYYY-MM-DD such as 2023-02-03
publicationSequenceNumberBag	keyword	Exact case-sensitive string
wipoReferenceNumber	keyword	Exact case-sensitive string
wipoPublicationDate	date	YYYY-MM-DD such as 2023-02-03
internationalRegistrationPublicationDate	date	YYYY-MM-DD such as 2023-02-03
internationalRegistrationNumber	text	Full or partial string, case-insensitive
examinerNameText	keyword	Exact case-sensitive string
partyIdentifier	long	Exact number, i.e. 12345
class	keyword	Exact case-sensitive string
subclass	keyword	Exact case-sensitive string
class/subclass	keyword	Exact case-sensitive string
customerNumber	long	Exact number, i.e. 12345
cpcClassificationBag	text	Full or partial string, case-insensitive