



Search Tools and Strategies

Tehran
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Program Officer, Innovation and Technology Support Section

Overview

- Elements of a patent application
- Boolean operators
- Proximity operators
- Phrases
- Nesting
- Wildcard operators
- Range operators

Bibliographic data

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)
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- (71) Applicant (for all designated States except US): **BRASIL-ATA S/A EMBALAGENS METÁLICAS** [BR/BR]; Rua Robert Bosch, 332, 01141-010 São Paulo-SP (BR).
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- (74) Agents: **ARNAUD, Antonio M.P.** et al.; Rua José Bonifácio, 93 - 9th floor, 01003-901 São Paulo-SP (BR).
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Applicant →

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Designated states

Description (specification)

"CLOSURE DEVICE FOR METALLIC CONTAINERS"

Field of the Invention

The present invention refers to a closure device to be applied in metallic containers, such as pails, comprising a tubular body having a peripheral side wall which has a lower end portion to which is attached a bottom wall, and an upper end portion surrounding an opening, inside which is fitted and axially locked an also metallic lid with a peripheral upper skirt provided with at least one sealing element which cooperates with an upper end portion of the peripheral side wall of the tubular body of the container, to guarantee the tightness of the closure by the lid.

Prior Art

There are well known from the prior art the closure arrangements of the type mentioned above and which present one of the parts defined by the upper end portion of the tubular body of the container, or by the peripheral upper skirt of the lid provided with at least one circumferential rib which is fitted and axially retained into a respective and confronting circumferential groove provided on the other of said parts, in order to guarantee a reliable axial retention of the lid when fitted into the upper opening of the tubular body of the container.

These closure arrangements are provided with at least one annular sealing element, usually an elastic sealing ring or a synthetic resin gasket, which is

- Describes how the invention works (addresses a particular technical problem)
- Provides background information on this problem
- Indicates other known solutions to the problem ("prior art")

Claims

CLAIMS

1. Closure device for metallic containers comprising: a tubular body (10) having an upper end portion (11) which incorporates an outer and upper finishing cord (13), and an outer and lower peripheral rib (14); and a lid (20) including a peripheral upper skirt (22) to be fitted inside said upper end portion and externally incorporating an outer curl, characterized in that said device comprises: a retention ring (40) seated around the tubular body (10) and axially locked between the finishing cord (13) and the peripheral rib

- Define the scope of protection sought by the applicant

Fields

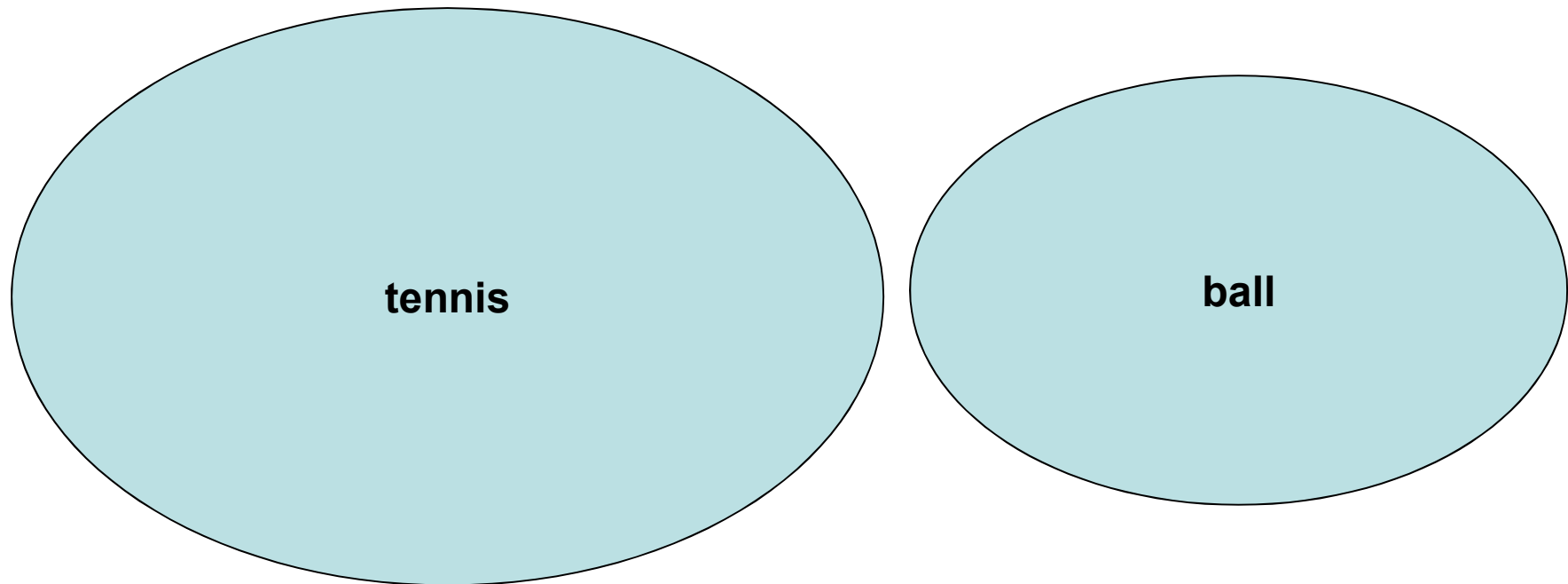
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Boolean operators

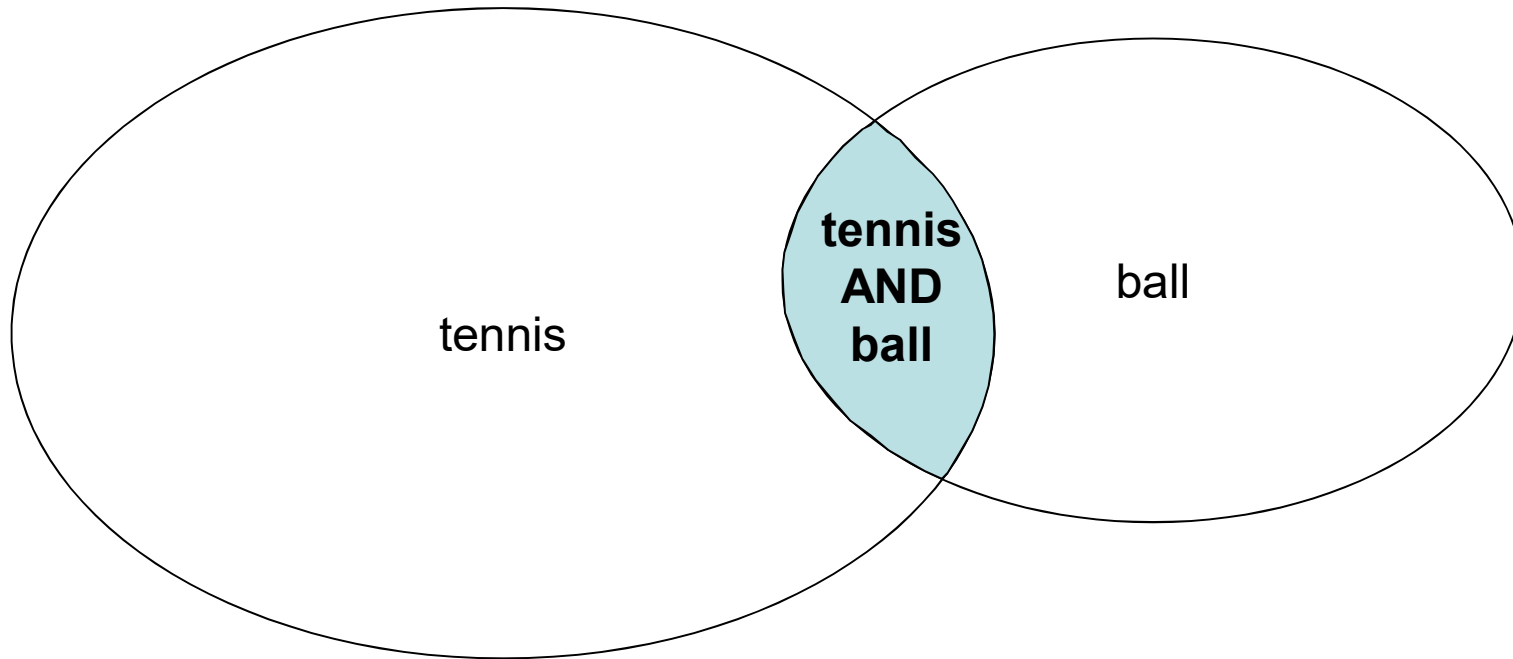
- Also known as "logical operators"
 - AND (or +)
 - OR
 - NOT (or ANDNOT or -)

Boolean operators



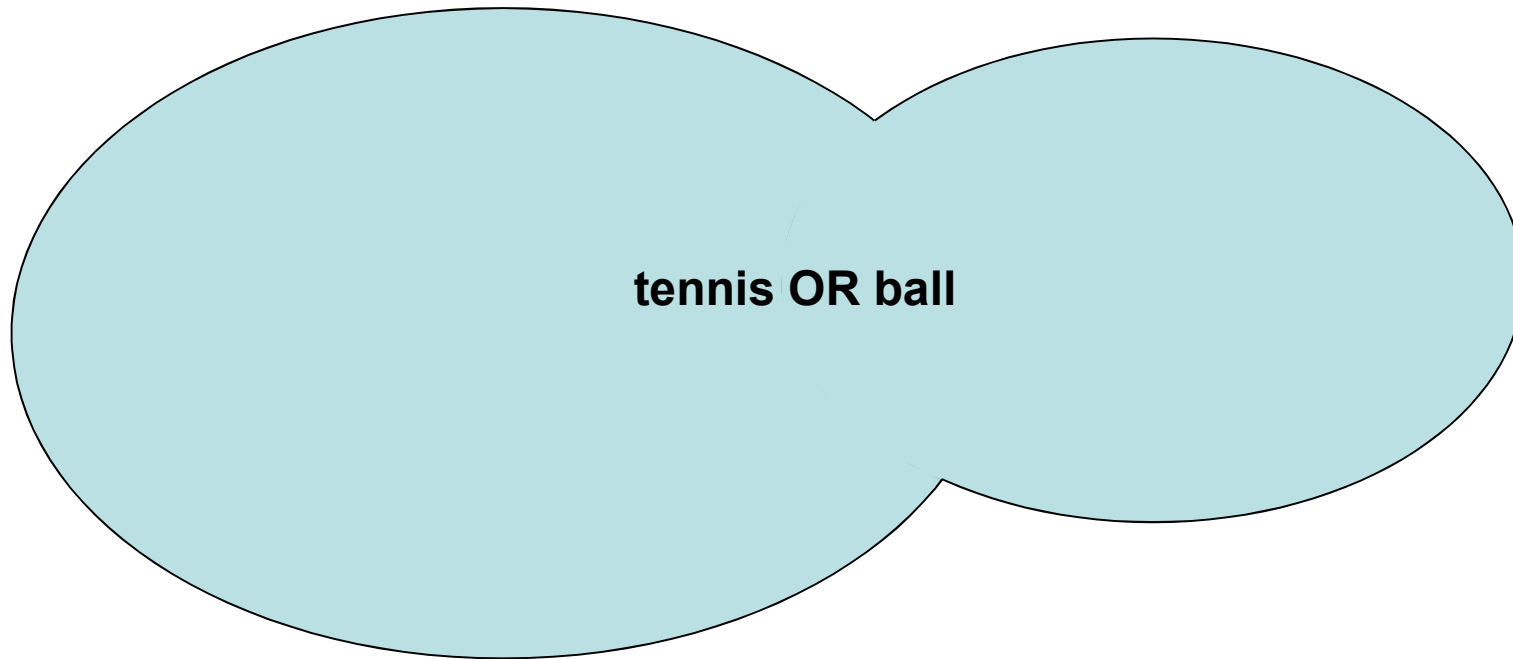
- Results in PCT collection (English titles):
 - **219** (tennis)
 - **2'829** (ball)
 - **3'048 total**

Boolean operators: AND



- Results in PCT collection (English titles)
 - **38** (tennis AND ball)

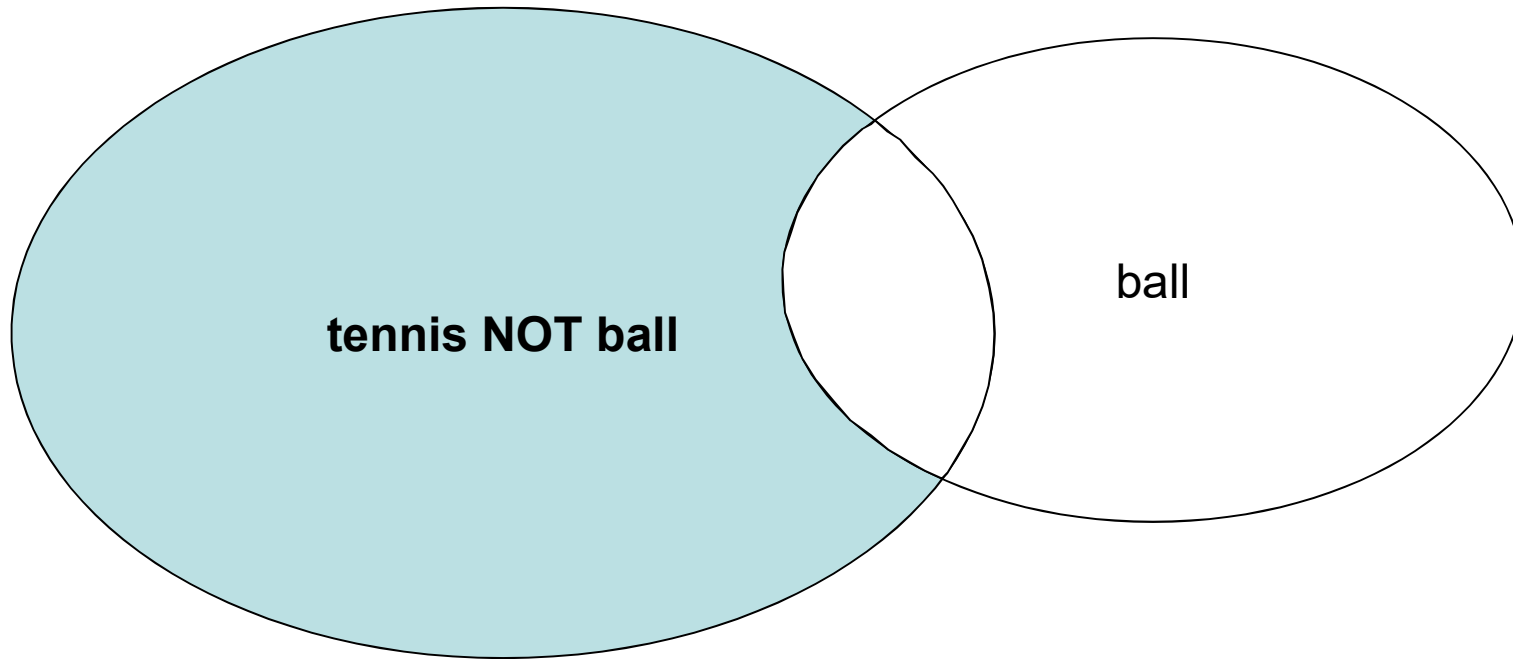
Boolean operators: OR



- Results in PCT collection (English titles)
 - **3'010** (tennis OR ball)

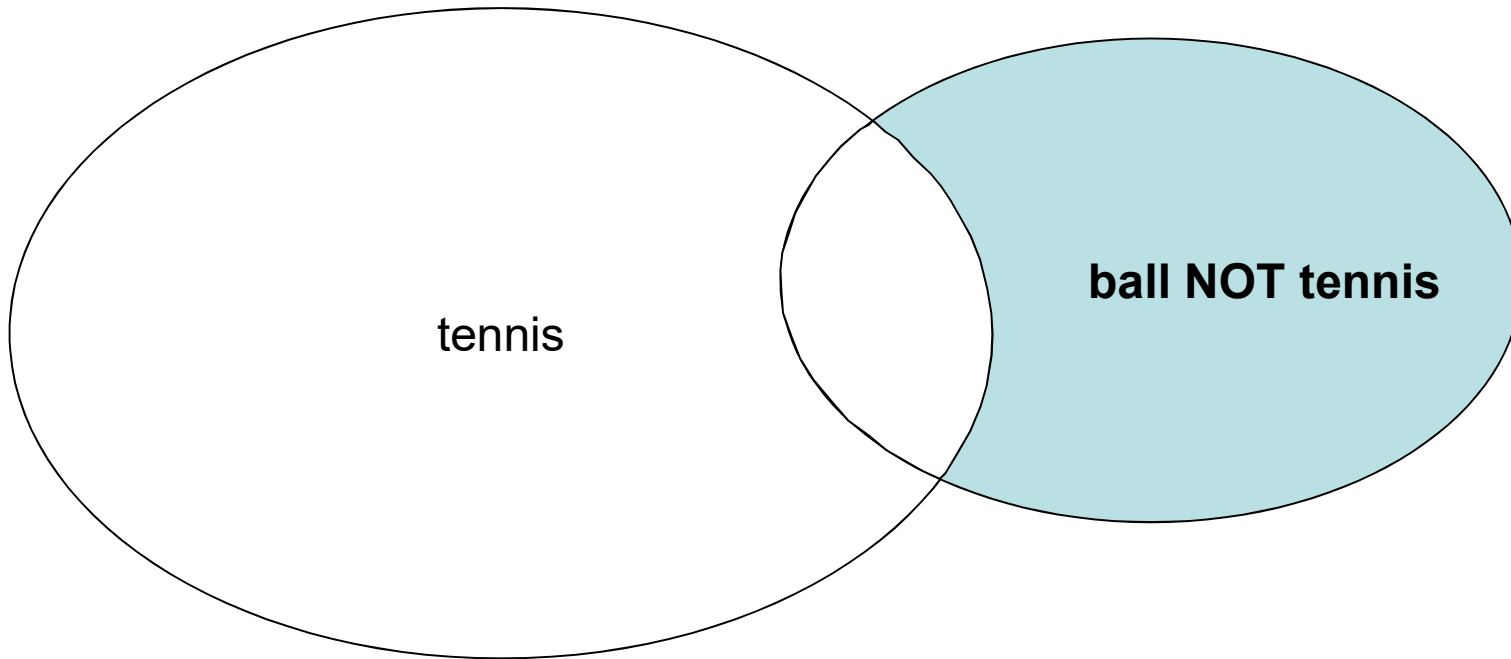
→ Avoids double counting tennis AND ball

Boolean operators: NOT



- Results in PCT collection (English titles)
 - **181** (tennis NOT ball)

Boolean operators: NOT



- Results in PCT collection (English titles)
 - **2'791** (ball NOT tennis)

→ Order of terms matters!

Boolean operators: Uses

- OR: synonyms or related concepts
corn OR maize → synonyms
corn OR plant → related concepts
- AND: additional concepts
corn AND fertilizer

Proximity operators

- Define the maximum "distance" (number of terms) between search terms
- Ensure that search terms are "in context" with each other

Proximity operators: Ordered

- Ordered: Search terms must be in given order (and within specified distance)

corn BEFORE5 fertilizer (in PATENTSCOPE)

A process is provided for the dry treatment of agricultural products such as corn and tobacco to remove fertilizer-derived nitrate. The process involves a short duration contact of the agricultural product with HCl gas under conditions which minimize generation of non-volatile chlorocarbons that could form by interaction of the agricultural product with the gaseous products of the reaction of the HCl with the nitrate.

Proximity operators: Unordered

- Unordered: Search terms can be in any order (and within specified distance)

corn NEAR5 fertilizer (in PATENTSCOPE)

A process is provided for the dry treatment of agricultural products such as corn and tobacco to remove fertilizer-derived nitrate. The process involves a short duration contact of the agricultural product with HCl gas under conditions which minimize generation of non-volatile chlorocarbons that could form by interaction of the agricultural product with the gaseous products of the reaction of the HCl with the nitrate.

The organic fertilizer comprises oilseed extract and/or corn steep liquor in combination with whey and/or other protein supplements, which provide a natural, nitrate free, nitrogen to the fertilizer. Additionally, a method of manufacturing an organic fertilizer comprising heating an oilseed extract, dissolving whey in the heated extract, and filtering the resultant mixture for use domestically and abroad.

Question

- How would you carry out a search for inventions related to blood pressure?



Photo source: Pia von Lützu

Boolean operator: AND

- How would you carry out a search for inventions related to blood pressure?
- blood AND pressure
→ No context



Photo source: Pia von Lützu

Proximity operator

- How would you carry out a search for inventions related to blood pressure?
- blood AND pressure
→ No context
- blood BEFORE1 pressure
→ Works, but not supported by all database systems



Photo source: Pia von Lützu

Phrases

- How would you carry out a search for inventions related to blood pressure?
- blood AND pressure
→ No context
- blood BEFORE1 pressure
→ Works, but not supported by all database systems
- **"blood pressure"**

Photo source: Pia von Lützau



Comparison: AND, proximity, phrases

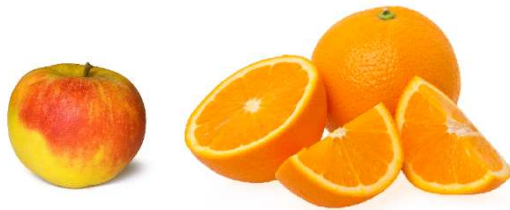
- AND: both terms required, no context required
→ Broadest search
- Proximity: both terms required, in context
→ Narrower search (depending on distance)
- Phrases: exact phrase required (e.g. compound words)
→ Narrowest search

Nesting: Rationale

- apples AND oranges OR bananas

Nesting: Rationale

- apples AND oranges OR bananas



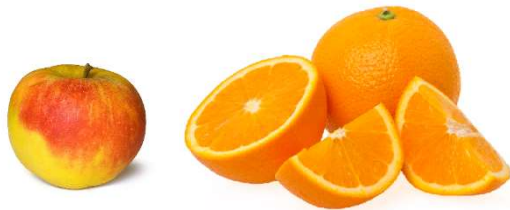
or



Photo source: Evan Amos, Zoofari, Amada44 (Wikimedia)

Nesting: Rationale

- apples AND oranges OR bananas



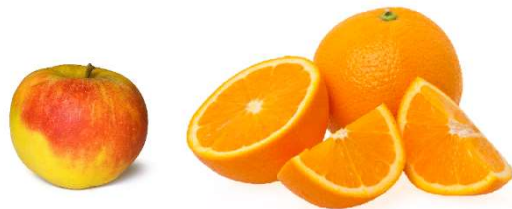
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Photo source: Evan Amos, Zoofari, Amada44 (Wikimedia)

Nesting: Rationale

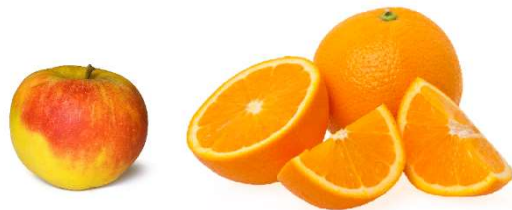
- apples AND oranges OR bananas



or



?



or

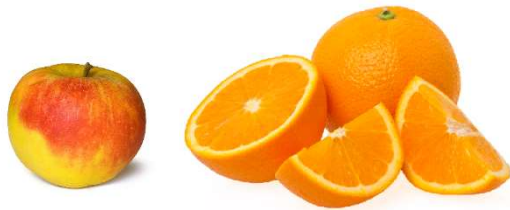


?

Photo source: Evan Amos, Zoofari, Amada44 (Wikimedia)

Nesting

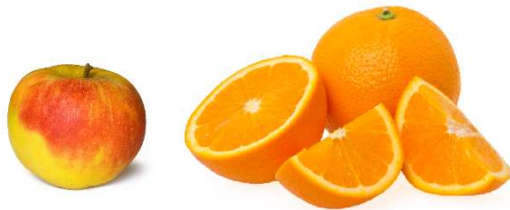
- (apples AND oranges) OR bananas



or



- apples AND (oranges OR bananas)



or

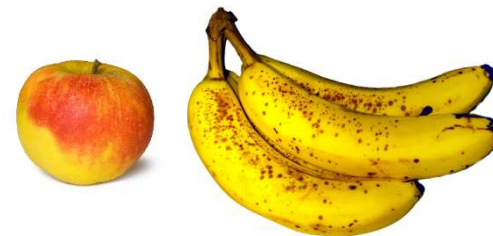


Photo source: Evan Amos, Zoofari, Amada44 (Wikimedia)

Question

- How would you carry out a search for all manner of inventions related to electricity?



Photo source: Dmitri G (Wikimedia)

Key concepts

- electricity
- electrical
- electric
- electronic
- electromagnetic
- ...

Boolean operators: OR

- electricity
- electrical
- electric
- electronic
- electromagnetic
- ...

→ electricity OR electrical OR electric OR electronic OR
electromagnetic ...

Wildcard operators

- electricity
- electrical
- electric
- electronic
- electromagnetic
- ...

Wildcard operators

- **electricity**
- **electrical**
- **electric**
- **electronic**
- **electromagnetic**
- ...

Wildcard operators

- **electricity**
- **electrical**
- **electric**
- **electronic**
- **electromagnetic**
- ...

→ electr*

(* represents a given number of characters)

Wildcard operators

- Any number of characters : *
electr* → **electric**, **electron**, **electronic** ...
- One character exactly (stackable) : ?
coll?sion → **collision**, **collusion** ...
foc?? → **focus**, **focal** ...
- Can be used at the end of a term or inside a term

Range operators

- Range including end points : [*term1* TO *term2*]
- Range excluding end points : {*term1* TO *term2*}

- ID number ranges
[WO1999012345 TO WO1999012350]
- Date ranges
[20100101 TO 20100601]
- Name ranges
PA:[m* TO n*]

Scenario

- A shipping company would like to improve its logistics management.
- You've been asked to perform a search for inventions related to radio frequency identification (RFID) tags used to track the movement of containers.

Key concepts

radio frequency identification

RFID

containers

Phrases

"radio frequency identification"

RFID

containers

→ Identify compound words

Boolean operators

"radio frequency identification" OR RFID AND containers

→ Indicate relationships between concepts (synonyms and additional concepts)

Nesting

("radio frequency identification" OR RFID) AND containers

→ Resolve ambiguous logic

Wildcard operators

("radio frequency identification" OR RFID) AND container*

→ Include variants (here: plural form)

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("radio frequency identification" OR RFID) AND container*



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("radio frequency identification" OR RFID) AND container*

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("radio frequency identification" OR RFID) AND container*

Office: All

Search

Search: Results

Sort by: Relevance View All List Length 10 Machine translation

Int.Class	Appl.No	Title	Applicant	Ctr	PubDate
1. 2232409		AN ASSOCIATED SET OF RADIO FREQUENCY IDENTIFICATION (RFID) TAGGED CONTAINERS FOR SPECIMENS FROM A PATIENT		EP	29.09.2010
G06K 19/00	08860310		3M INNOVATIVE PROPERTIES CO		EGBERT WILLIAM C
Techniques are described for using radio-frequency identification (FID) tags and containers for specimens.					
2. 103482212		RFID (Radio Frequency Identification) omnidirectional electronic tag of liquid container and configuration method thereof		CN	01.01.2014
G06K 1/00	201210194952.2		航天信息股份有限公司		金永斗
The embodiment of the invention provides an RFID (Radio Frequency Identification) omnidirectional electronic tag of a liquid container and a configuration method of the RFID omnidirectional electronic tag. The electronic tag comprises a radiation loop and a power supply loop, wherein the radiation loop and the power supply loop are attached to the inner side of a bottle cap of the liquid container in a winding mode, and a demolishing component on the electronic tag is connected with an opening component on the bottle cap of the liquid container, so that the electronic tag is physically destroyed through the demolishing component when the bottle cap of the liquid container is opened by utilizing the opening component. By using the RFID omnidirectional electronic tag, the removal preventing and anti-counterfeiting functions of the electronic tag are realized, and the electronic tag has higher radiation characteristics.					

Search: Results

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G06K 1/00	201210194952.2	2. 103482212 RFID (Radio Frequency Identification) omnidirectional electronic tag of liquid container and configuration method thereof	航天信息股份有限公司	CN	01.01.2014
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