

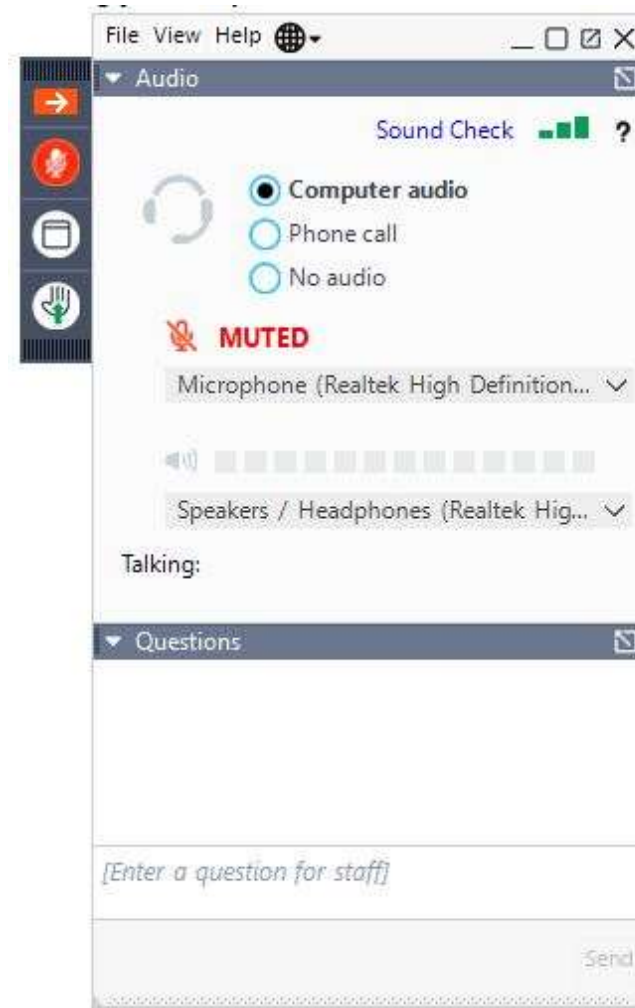


Fundamentals of using patent databases

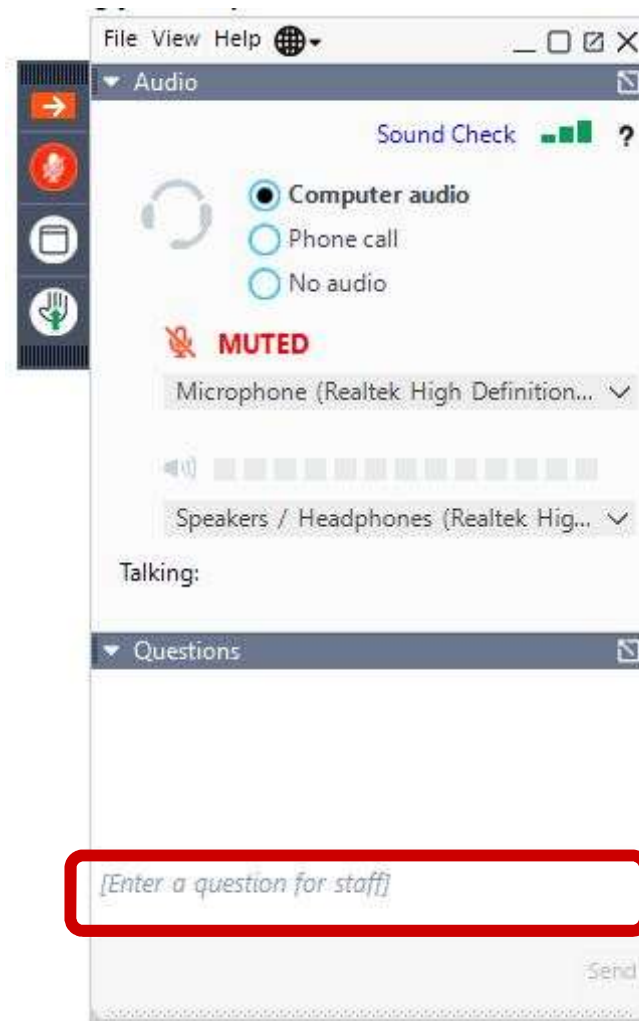
**Webinar
June 2020**

Andrew Czajkowski
Director, Technology and Innovation Support Division

Webinar: Asking questions

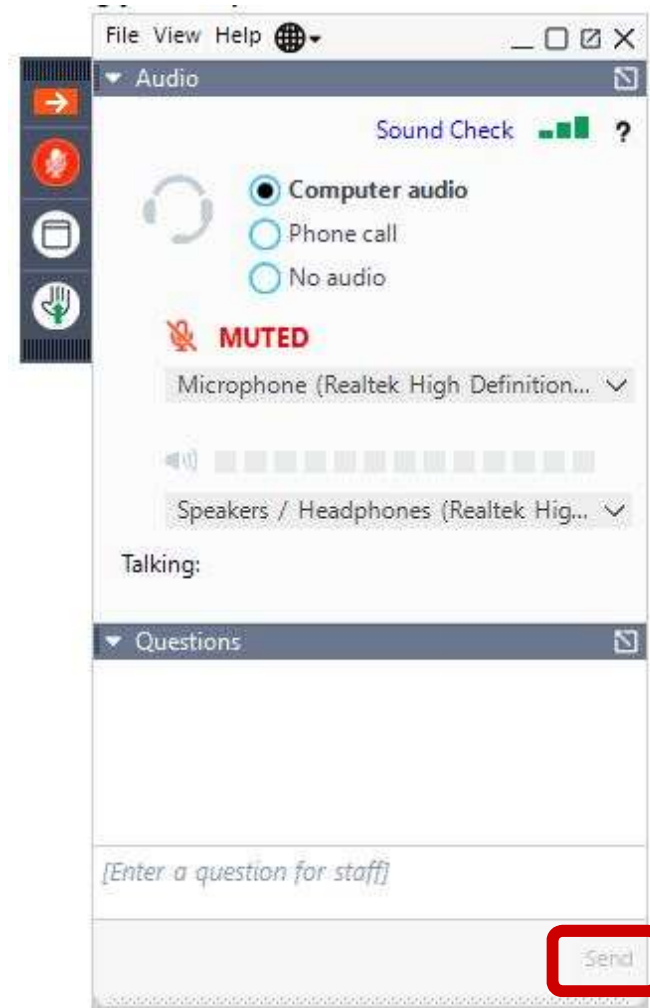


Webinar: Asking questions



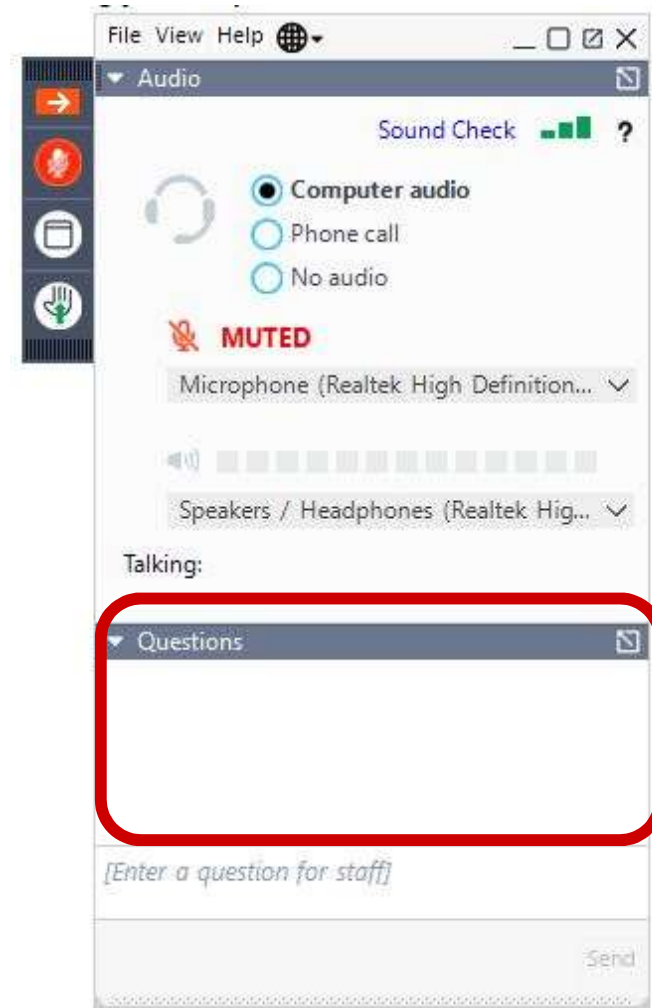
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Webinar: Asking questions



→ Press "Send"

Webinar: Asking questions



→ See your questions and answers

Overview

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

Bibliographic data

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(10) International Publication Number

WO 2012/075556 A1

(43) International Publication Date
14 June 2012 (14.06.2012)

- (51) **International Patent Classification:**
B65D 43/02 (2006.01) *B65D 55/08* (2006.01)
B65D 45/30 (2006.01)
- (21) **International Application Number:** PCT/BR2011/000464
- (22) **International Filing Date:** 7 December 2011 (07.12.2011)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:** P11005786-2 8 December 2010 (08.12.2010) BR
- (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).
- (72) **Inventors; and**
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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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PCT/BR2011/000464

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B65D 43/02 (2006.01) *B65D 55/08* (2006.01)
B65D 45/30 (2006.01)

(21) International Application Number:
PCT/BR2011/000464

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WO 2012/075556 A1

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B65D 43/02 (2006.01) *B65D 55/08* (2006.01)
B65D 45/30 (2006.01)

(21) International Application Number:
PCT/BR2011/000464

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Applicant →

Inventor →

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(19) World Intellectual Property
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(10) International Publication Number
WO 2012/075556 A1

(43) International Publication Date
14 June 2012 (14.06.2012)

Classification →

(51) International Patent Classification:
B65D 43/02 (2006.01) **B65D 55/08** (2006.01)
B65D 45/30 (2006.01)

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PCT/BR2011/000464

(22) International Filing Date:
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(51) International Patent Classification:
B65D 43/02 (2006.01) B65D 55/08 (2006.01)
B65D 45/30 (2006.01)

(21) International Application Number:
PCT/BR2011/00046

(22) International Filing Date:
7 December 2011 (07.12.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
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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

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

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

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

Fields: Field codes

Symbol ↕	Name ↕
ALLNAMES	All Names
ALLNUM	All Numbers and IDs
AAD	Applicant Address
AADC	Applicant Address Country
PAA	Applicant All Data
PA	Applicant Name
ANA	Applicant Nationality
ARE	Applicant Residence
AD	Application Date

EN_AB	English Abstract
EN_ALL	English All
EN_CL	English Claims
EN_DE	English Description
EN_ALLTXT	English Text
EN_TI	English Title

Fields: Field codes

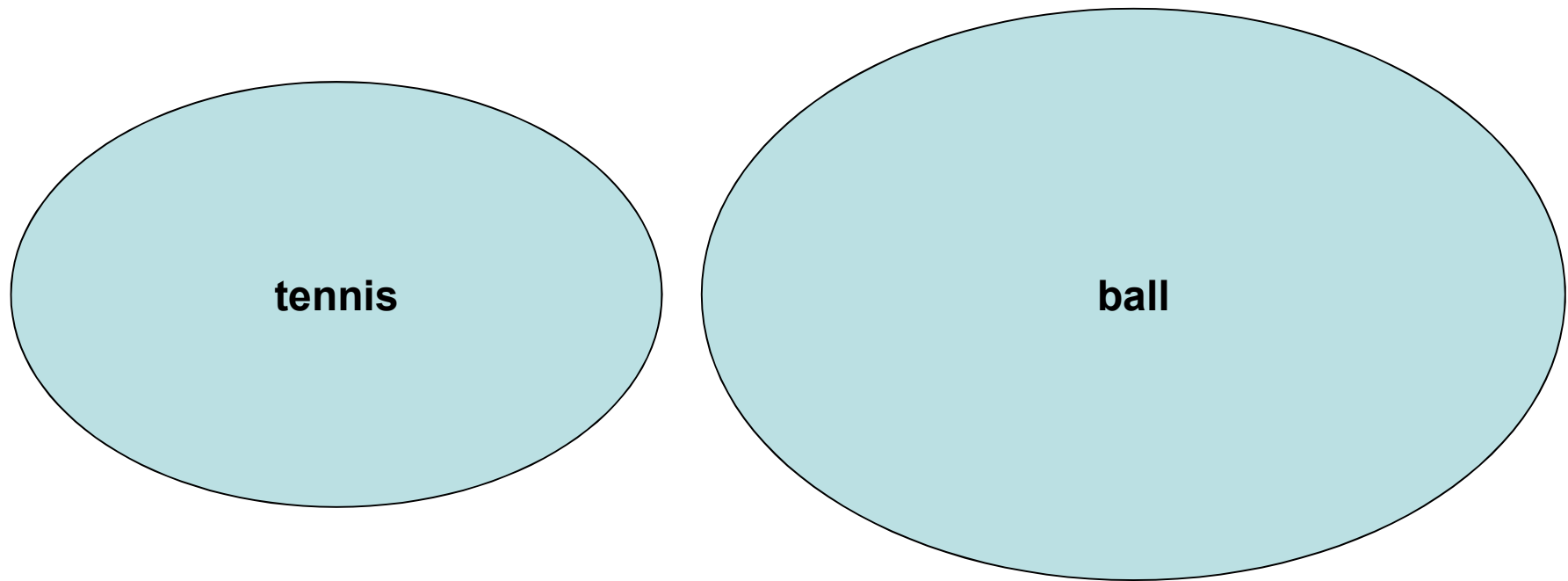
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AADC	Applicant Address Country
PAA	Applicant All Data
PA	Applicant Name
ANA	Applicant Nationality
ARE	Applicant Residence
AD	Application Date

EN_AB	English Abstract
EN_ALL	English All
EN_CL	English Claims
EN_DE	English Description
EN_ALLTXT	English Text
EN_TI	English Title

Boolean operators

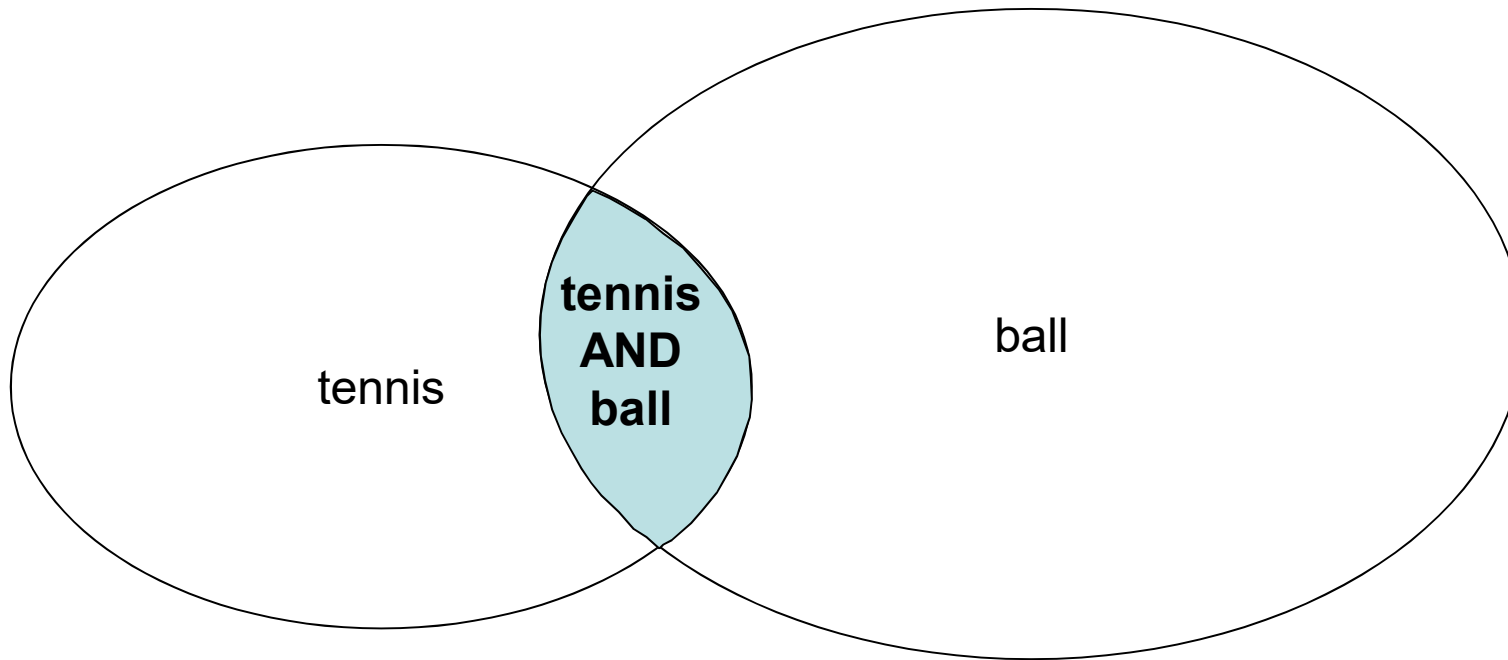
- Also known as "logical operators"
- AND (or +)
- OR
- NOT (or ANDNOT or -)

Boolean operators



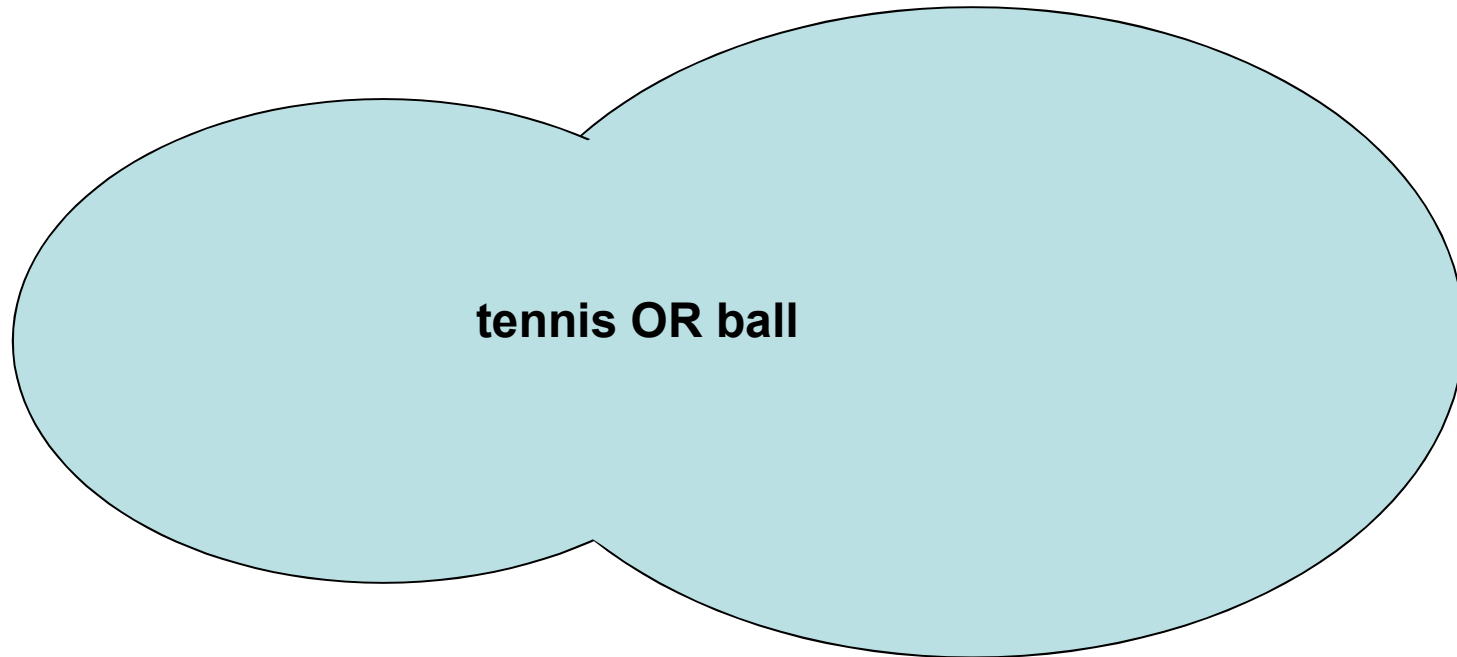
- Results in PCT collection (English titles):
 - **349** (tennis)
 - **4'947** (ball)
 - **5'296 total**

Boolean operators: AND



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

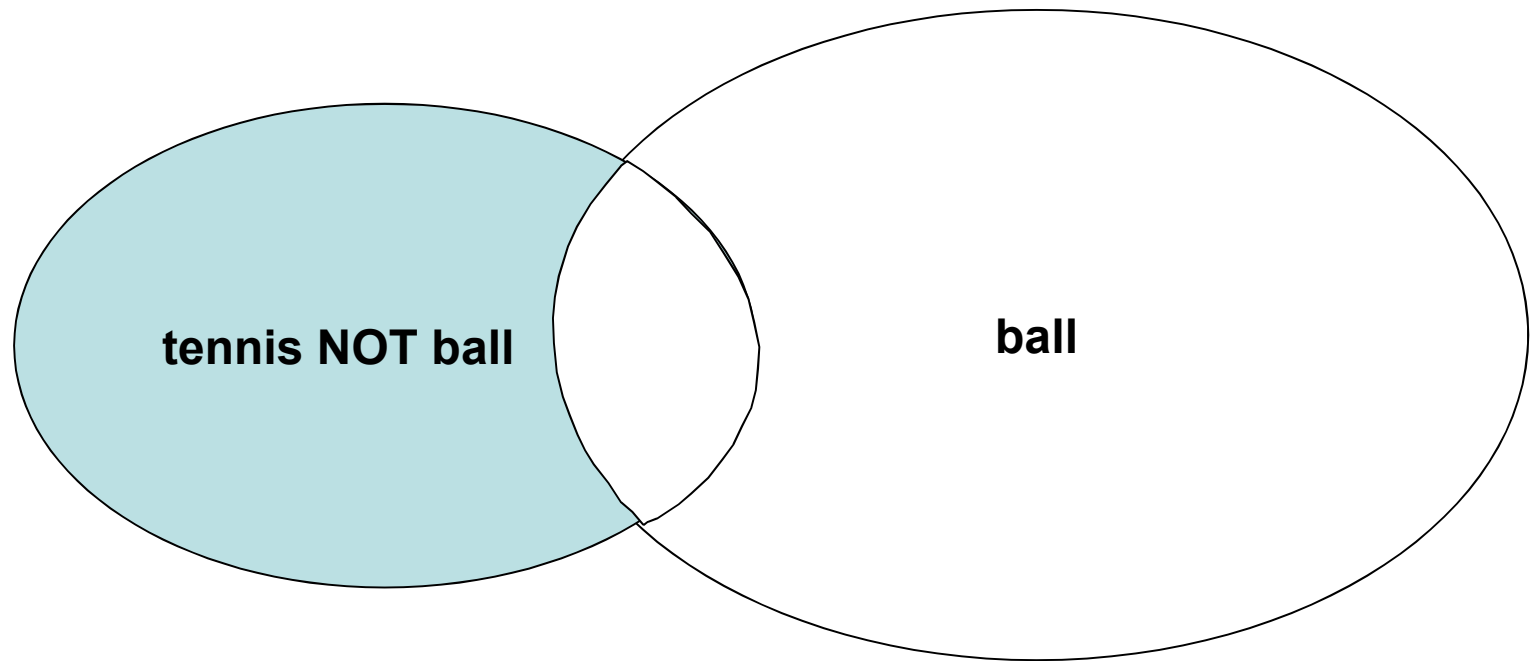
Boolean operators: OR



- Results in PCT collection (English titles)
 - **5'231** (tennis OR ball)

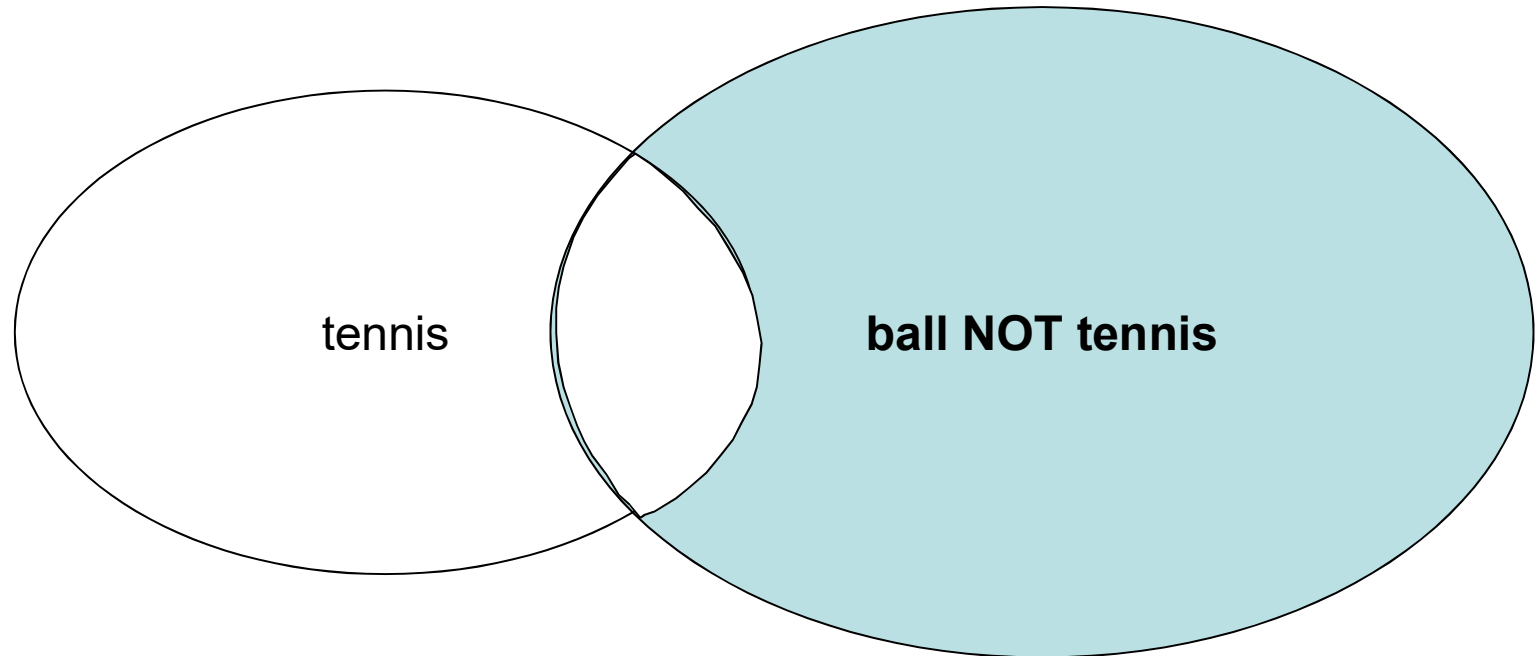
→ Avoids double counting tennis AND ball

Boolean operators: NOT



- Results in PCT collection (English titles)
- **4'885** (tennis NOT ball)

Boolean operators: NOT



- Results in PCT collection (English titles)
 - **348** (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: Rationale

■ corn AND fertilizer

WO 2008/040445 also describes that 4-[[[(6-chloropyrid-3-yl)methyl](methylamino)furan-2(5H)-one can be present in its commercially available formulations and in the use forms, prepared from these formulations, as a mixture with other active compounds, such as insecticides, attractants, sterilizing agents, bactericides, acaricides, nematocides, fungicides, growth-regulating substances, herbicides, safeners, **fertilizers** or semiochemicals.

Page 2

■ ■ ■

In an embodiment of the invention, the invention is directed to the use of the combination, mixture or composition according to the invention for controlling pests which occur in rice, cotton, tea, vegetables, sugar cane, soybean, potato, top fruits **corn** vine, ornamentals, rangeland and pastures, canola.

Page 15

Proximity operators: Function

- 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 operators: 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 operators

- 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 Lützu



Comparison: AND, proximity, phrases

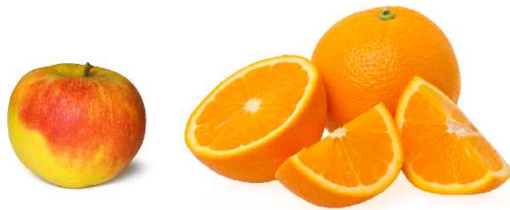
- AND: both terms required, no context required
→ Broadest search
- Proximity: both terms required, in context
→ Narrower search (depending on distance)
- Phrases: exact phrase required (e.g. compound words)
→ Narrowest search

Nesting: Rationale

- apples AND oranges OR bananas

Nesting: Rationale

- apples AND oranges OR bananas



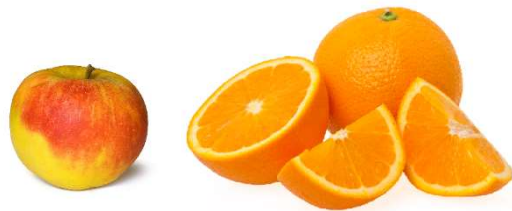
or



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

Nesting: Rationale

- apples AND oranges OR bananas



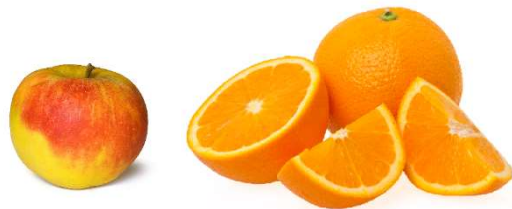
or



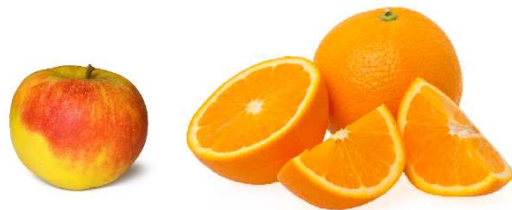
Photo source: Evan Amos, Zoofari, Amada44 (Wikimedia)

Nesting: Rationale

- apples AND oranges OR bananas



or



or

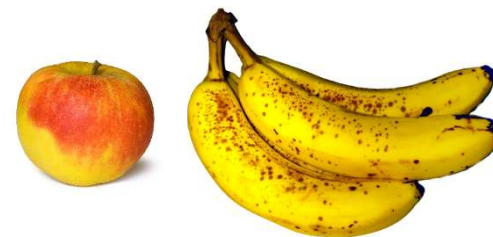
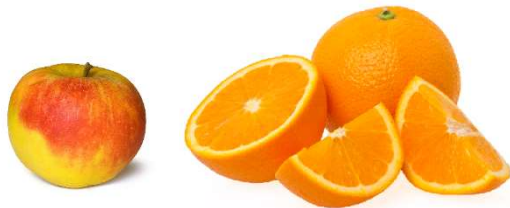


Photo source: Evan Amos, Zoofari, Amada44 (Wikimedia)

Nesting

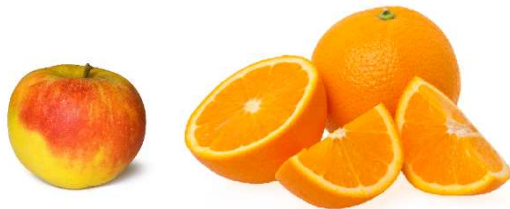
- (apples AND oranges) OR bananas



or



- apples AND (oranges OR bananas)



or

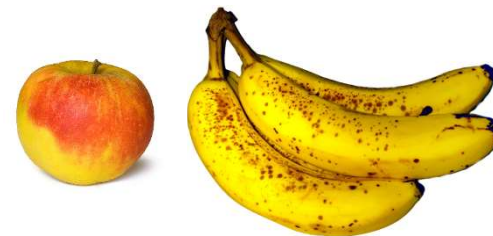


Photo source: Evan Amos, Zoofari, Amada44 (Wikimedia)

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)

Review

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

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)

Search

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Field

Front Page

Search terms...

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



[Query Examples](#)

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Field Front Page	Search terms... ("radio frequency identification" OR RFID) AND container*	Q
		Query Examples

Search: Results

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

2,670 results Offices all Languages en Stemming true Single Family Member false

Sort: Relevance ▼ Per page: 10 ▼ View: All ▼

< 1/267 >

Machine translation ▼

1. **2015200668** SYSTEM FOR TRACKING LIQUID CONTAINERS IN AUTOMATED LABORATORY ANALYZERS BY RADIO FREQUENCY IDENTIFICATION

JP - 12.11.2015

Int.Class G01N 35/00 ? Appl.No 2015129528 Applicant ABBOTT LABORATORIES Inventor FRITCHIE PATRICK P

PROBLEM TO BE SOLVED: To provide a system that enables a transition of a reagent from one automated system to a different system when the automated system is down.

SOLUTION: A system for automation of laboratory analyzers utilizes radio frequency identification (RFID) tags and radio frequency identification (RFID) readers to identify containers and liquid containers, and contents of the containers and liquid containers, that are employed in the system. The radio frequency identification tags conforming to guidelines of ISO 14443 or ISO 15693 or ISO 18000, are disposed on objects such as, for example, reagent containers, sample containers, and microplates and the like. The tags can be read by and written in a movable antenna of the RFID reader or a stationary antenna of the RFID reader. Reading of the RFID tags and writing to the RFID tags are controlled by software.

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2. **3631711** MANAGEMENT OF LARGE NUMBER OF RFID TAGS IN CRYOGENIC CONTAINER

EP - 08.04.2020

Int.Class G06Q 10/08 ? Appl.No 18724918 Applicant VIKING GENETICS FMBA Inventor PEDERSEN GERT FRØLUND

The present disclosure relates to a radio-frequency identification system for a container, such as a cryogenic container, comprising: a large number of radio-frequency identification tags for cryogenic straws, preferably at least 100 radio-frequency identification tags, each radio-frequency identification tag attachable to or embeddable in a cryogenic straw; an interrogation unit adapted to be placed or integrated inside the cryogenic container, wherein the interrogation unit and radio-frequency identification tags are configured to operate with a frequency of at least 30 MHz. The disclosure further relates to a method of identifying a large number of radio-frequency identification tags in a cryogenic container, preferably at least 100 radio-frequency identification tags, the method comprising the steps of: configuring a radio-frequency identification interrogation unit to transmit radio-frequency interrogation signals in the container with a frequency of at least 30 MHz; configuring the radio-frequency identification interrogation unit to operate in a plurality of different signal propagation modes such that the cryogenic container is divided into a plurality of propagation zones, wherein each propagation zone is associated with a corresponding propagation mode, and wherein only the radio-frequency identification tags within a specific propagation zone are excited when the interrogation unit is in the corresponding propagation mode; and configuring the radio-frequency identification interrogation unit to receive radio-frequency response signals from the radio-frequency identification tags.

Search: Results

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



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Thank you for your attention!

Any questions?

For more information, please contact:

tisc@wipo.int