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2013

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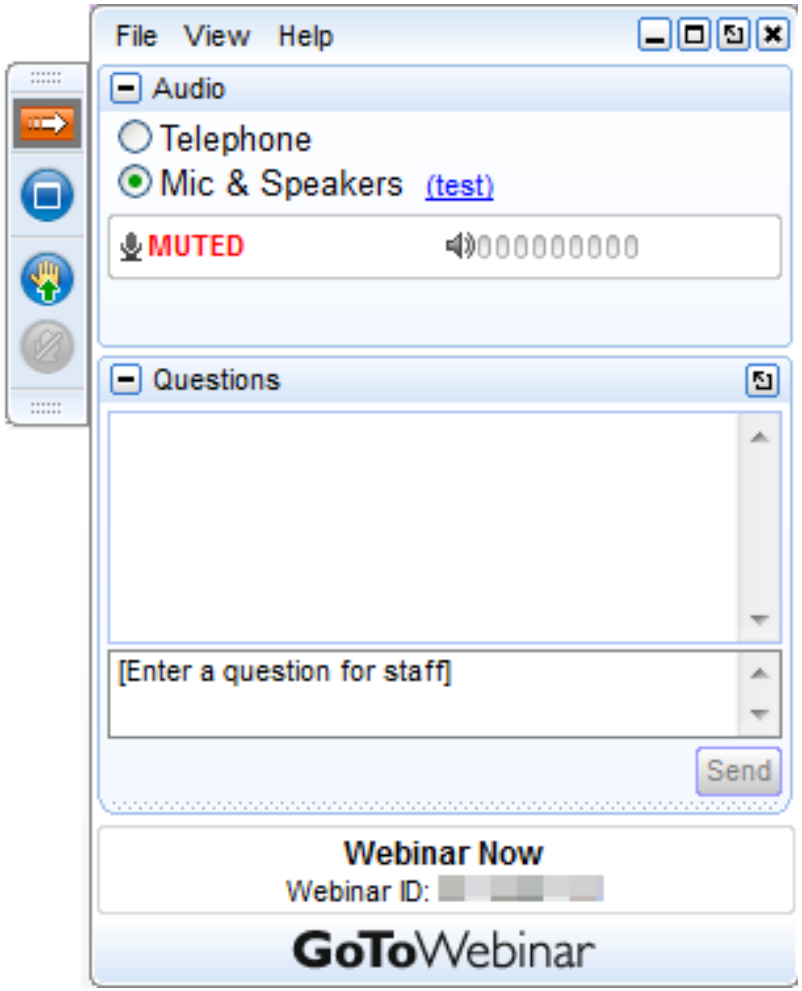

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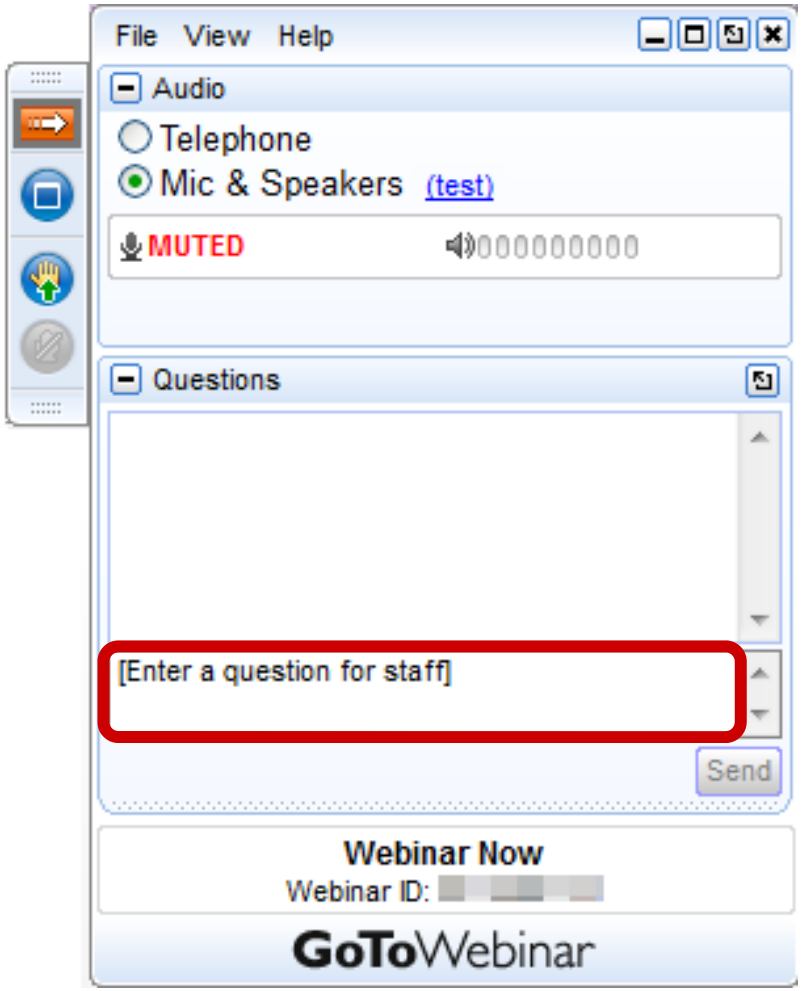

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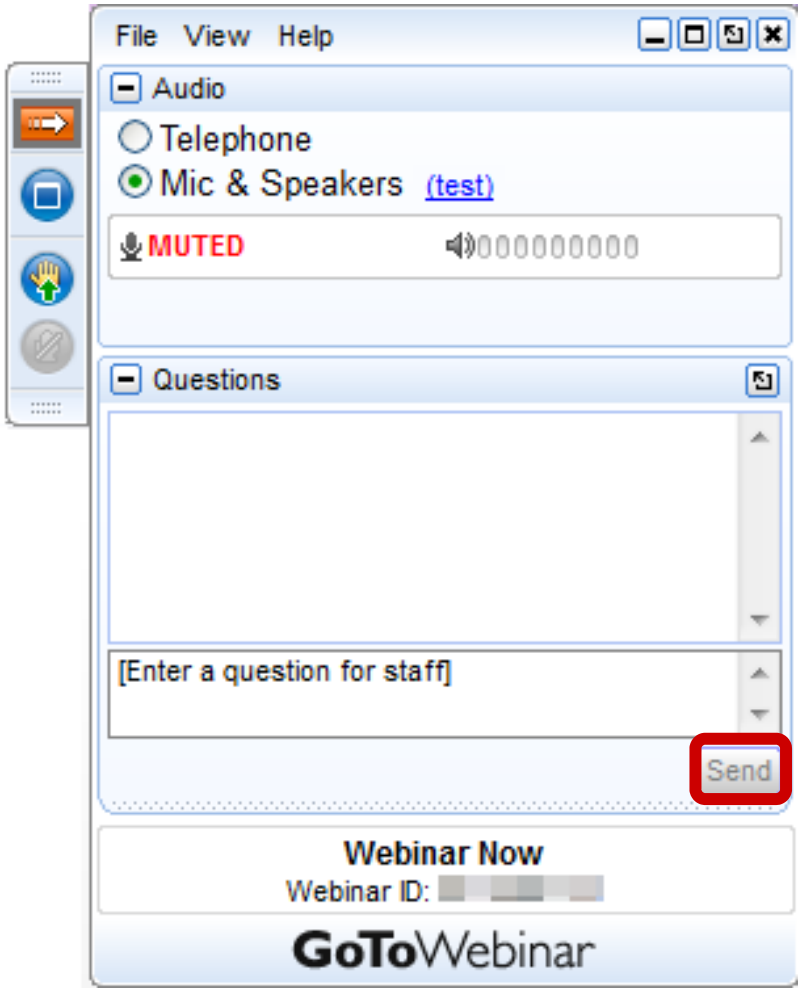

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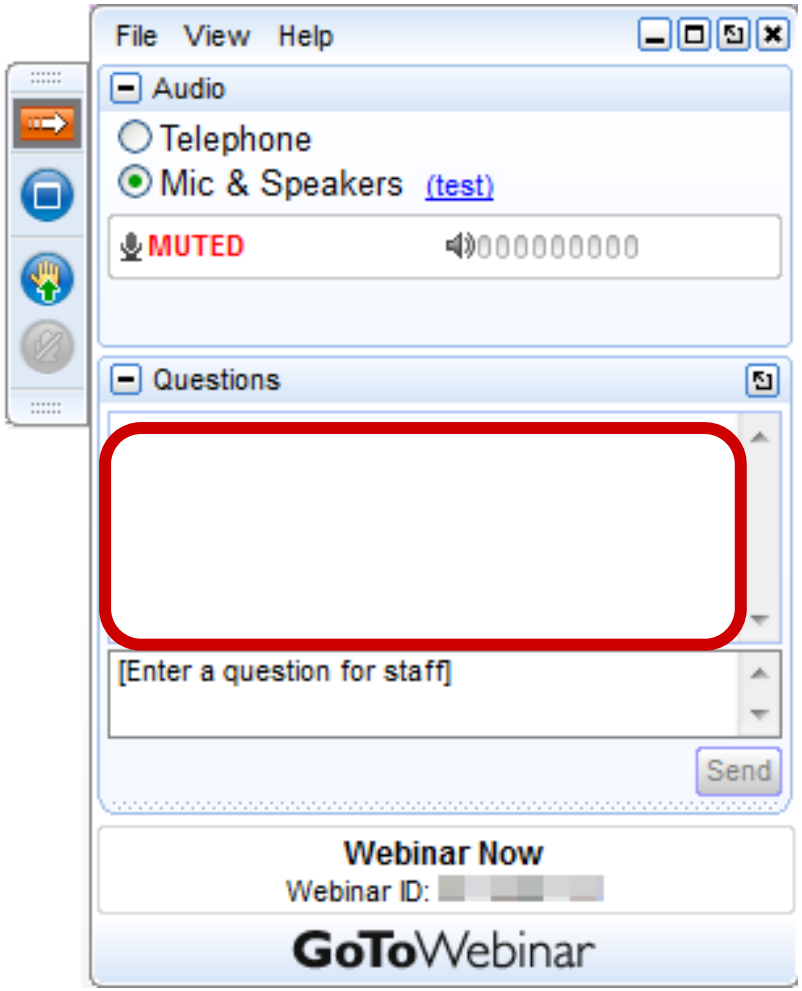

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Overview

- 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

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

WIPO | PCT

(10) International Publication Number
WO 2012/075556 A1

(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:
PI1005786-2 8 December 2010 (08.12.2010) BR

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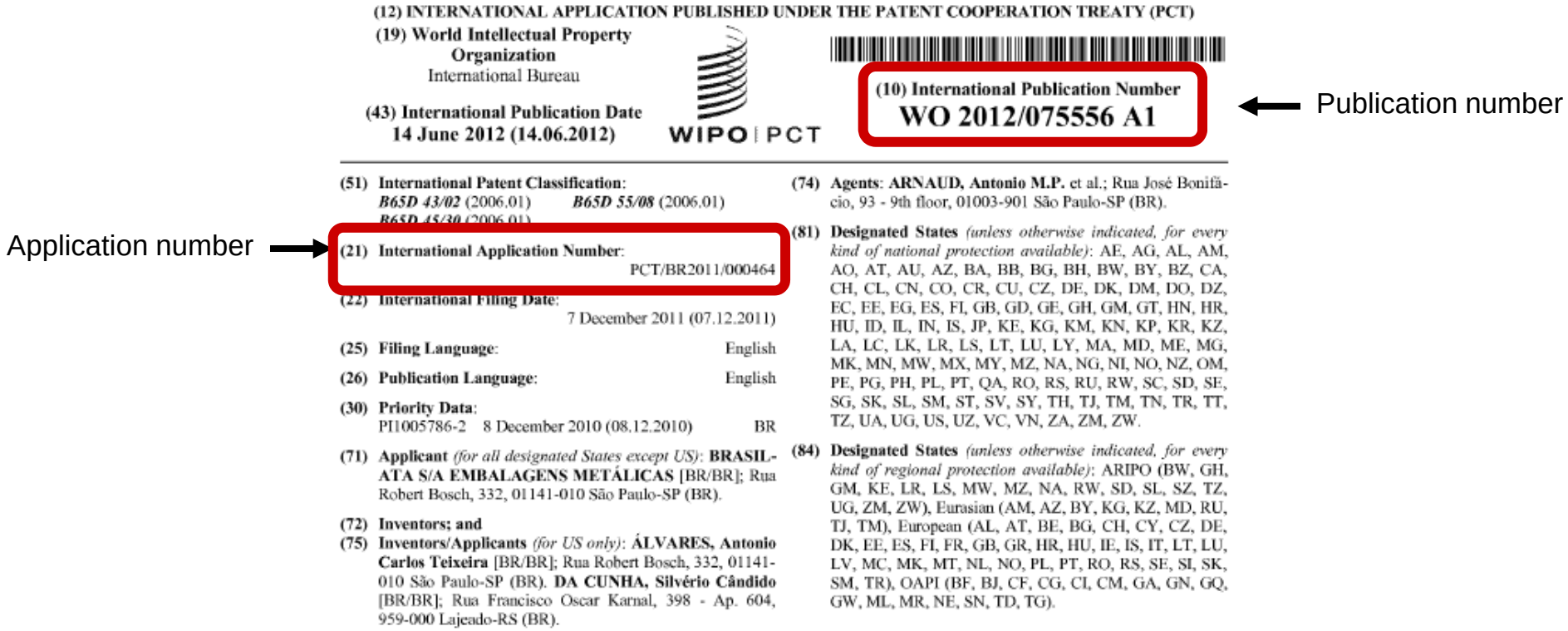

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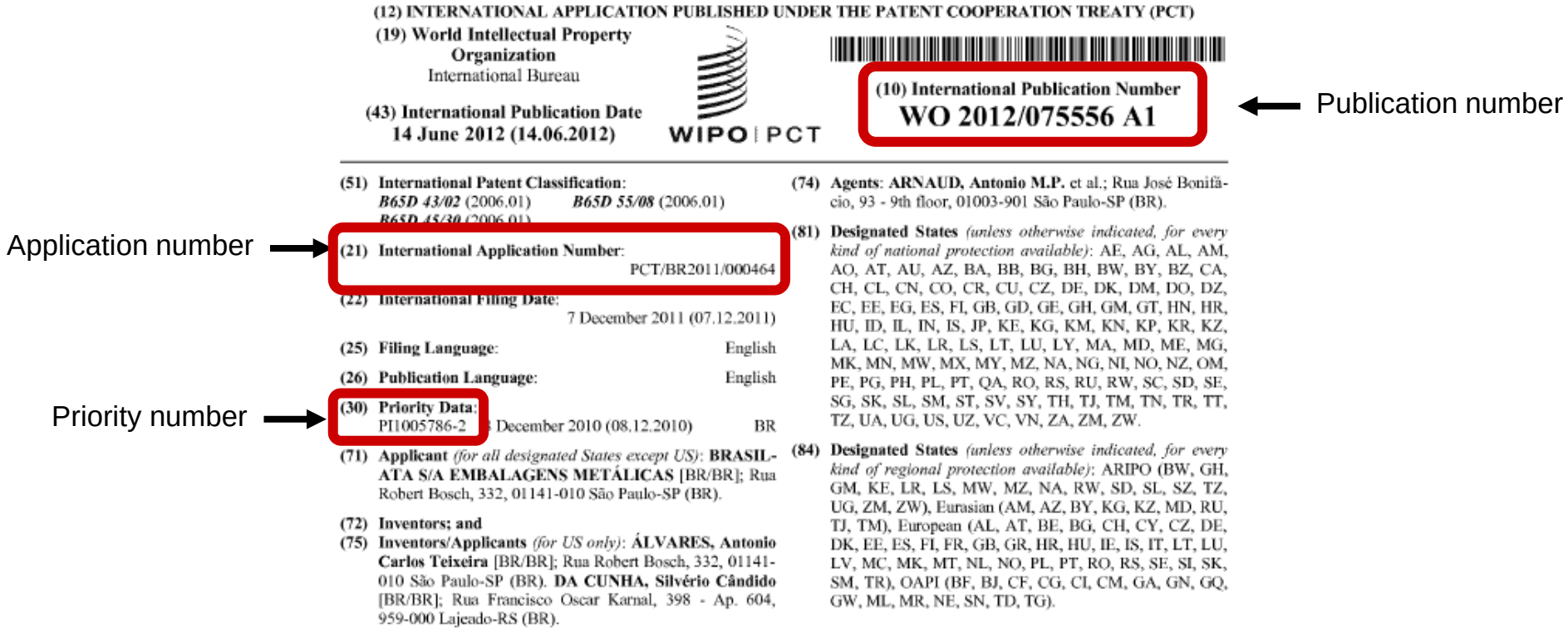

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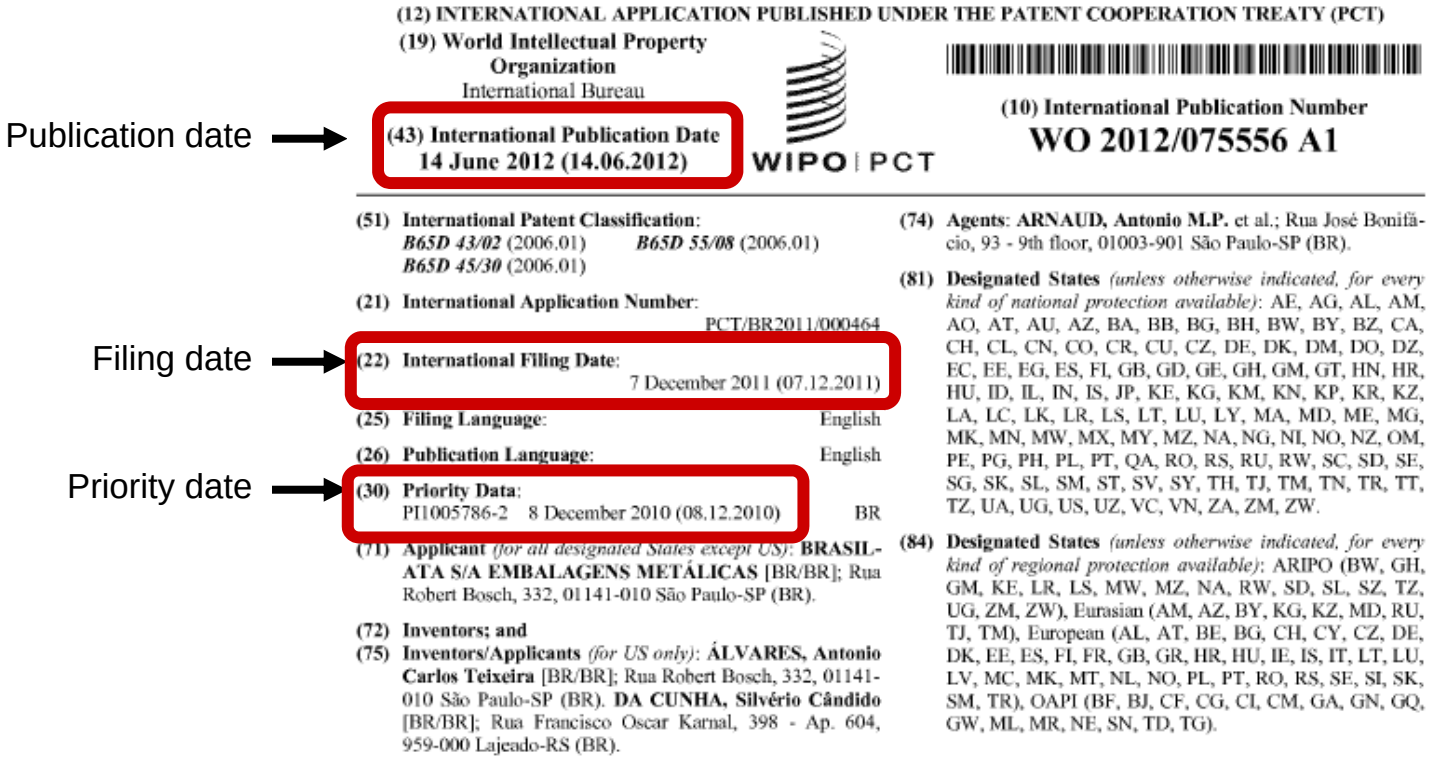

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WIPO | PCT

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WO 2012/075556 A1

Publication date →

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B65D 45/30 (2006.01)

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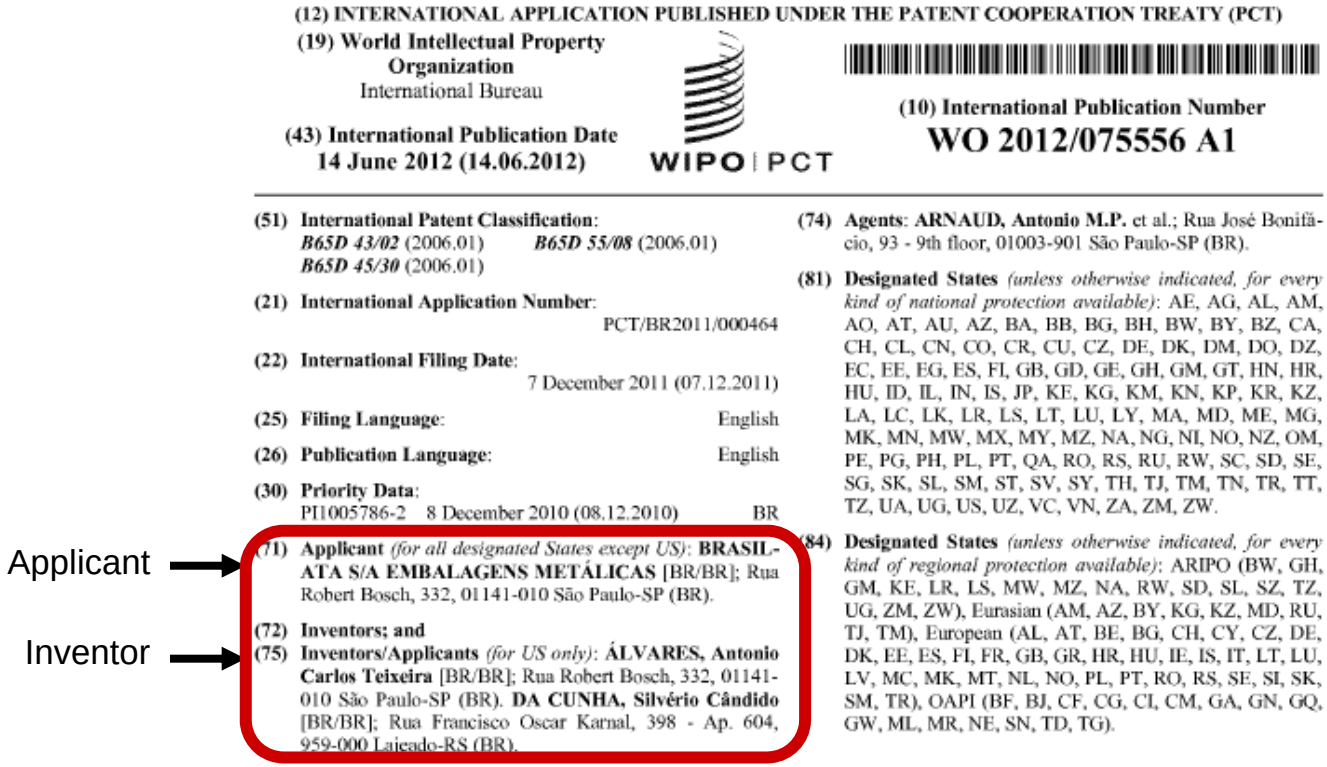

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WIPO | PCT

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WO 2012/075556 A1

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B65D 45/30 (2006.01)

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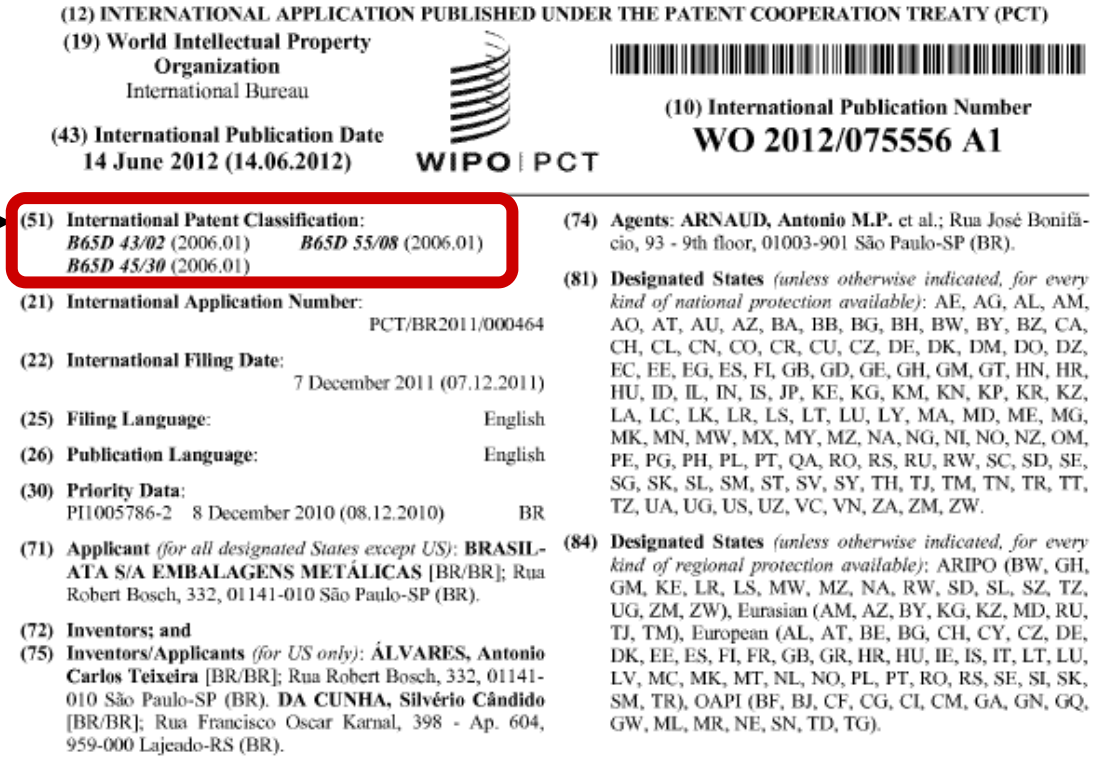

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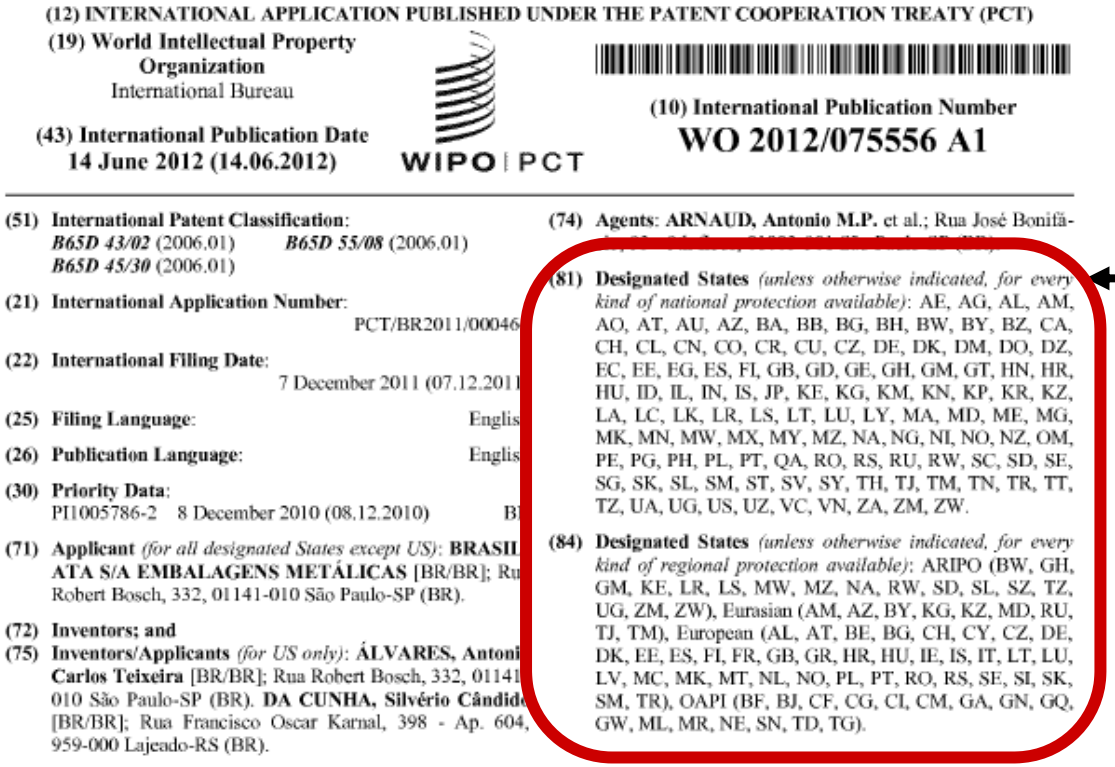

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PCT/BR2011/00046

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

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Designated states

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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 groóve 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")

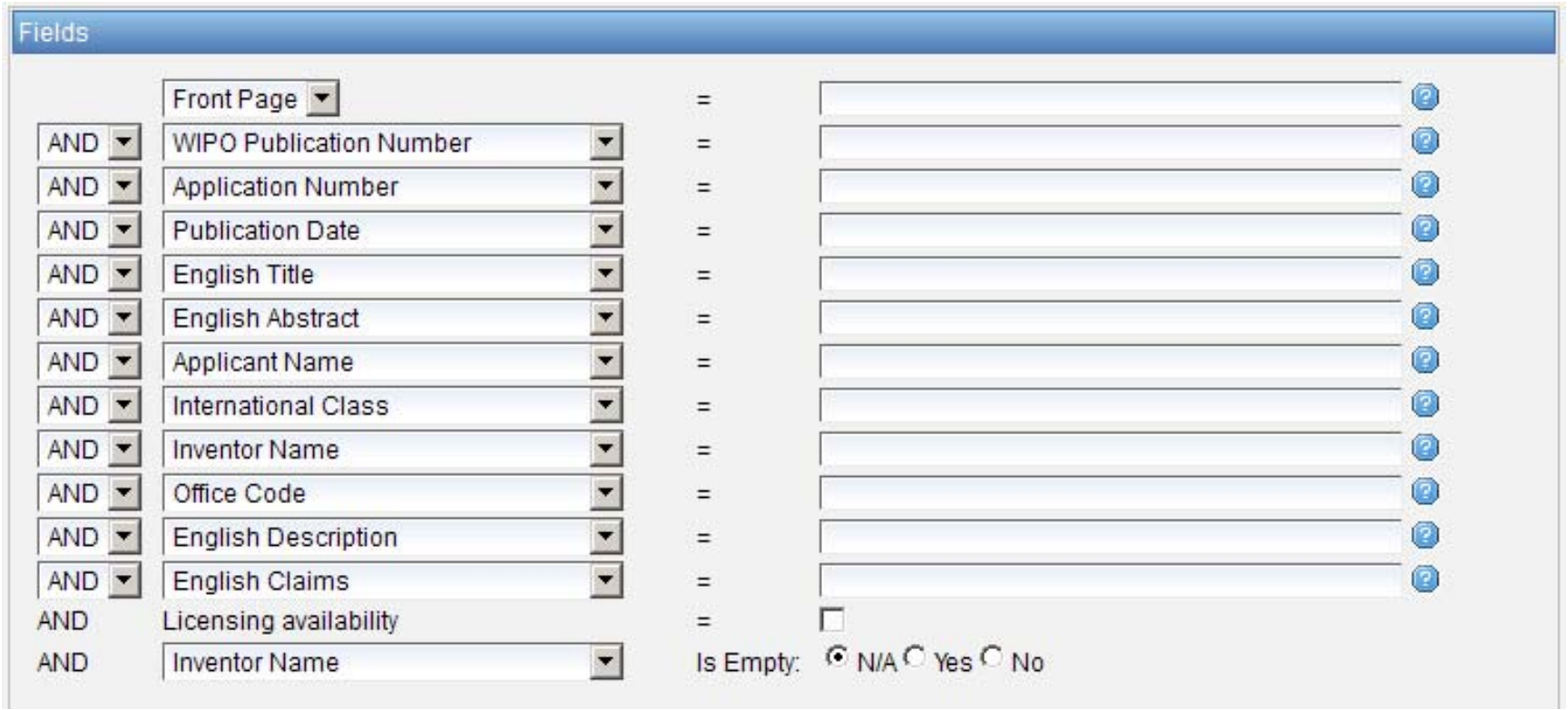
Claims

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


Fields
Front Page
=
AND
WIPO Publication Number
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AND
Application Number
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AND
Publication Date
=
AND
English Title
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AND
English Abstract
=
AND
Applicant Name
=
AND
International Class
=
AND
Inventor Name
=
AND
Office Code
=
AND
English Description
=
AND
English Claims
=
AND
Licensing availability
=
AND
Inventor Name
Is Empty:
N/A
Yes
No

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

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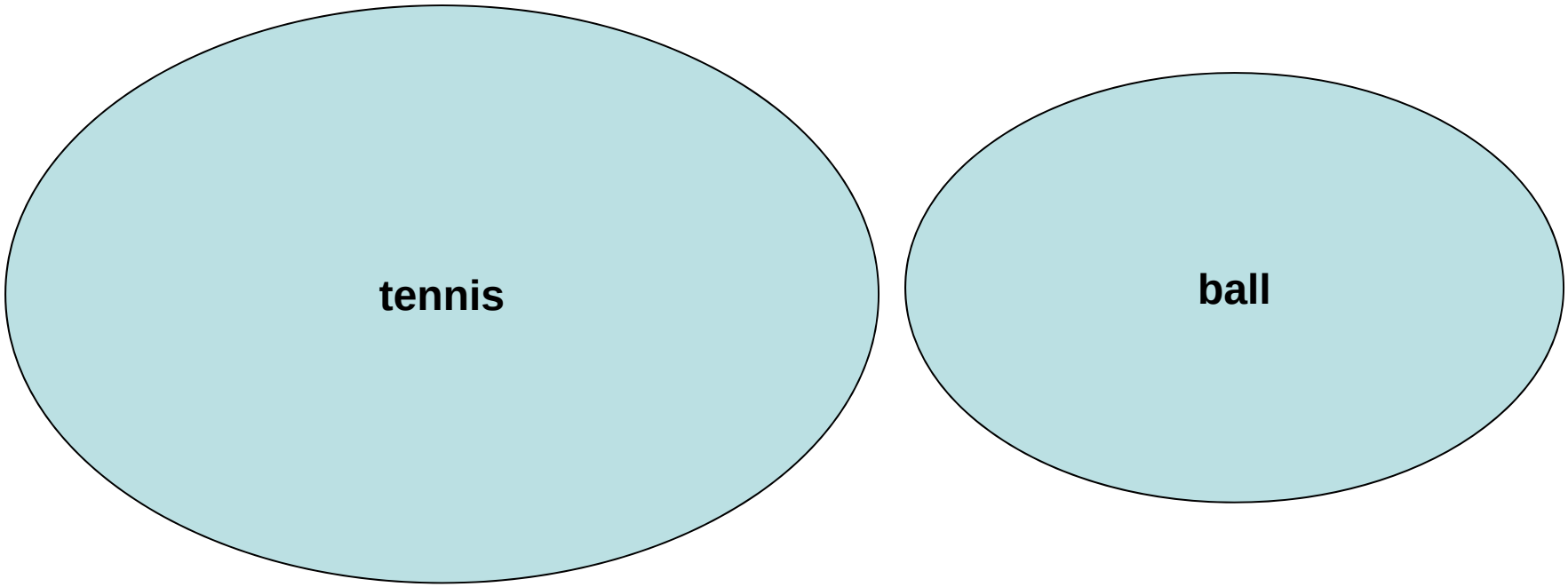
Boolean operators

- Also known as "logical operators"

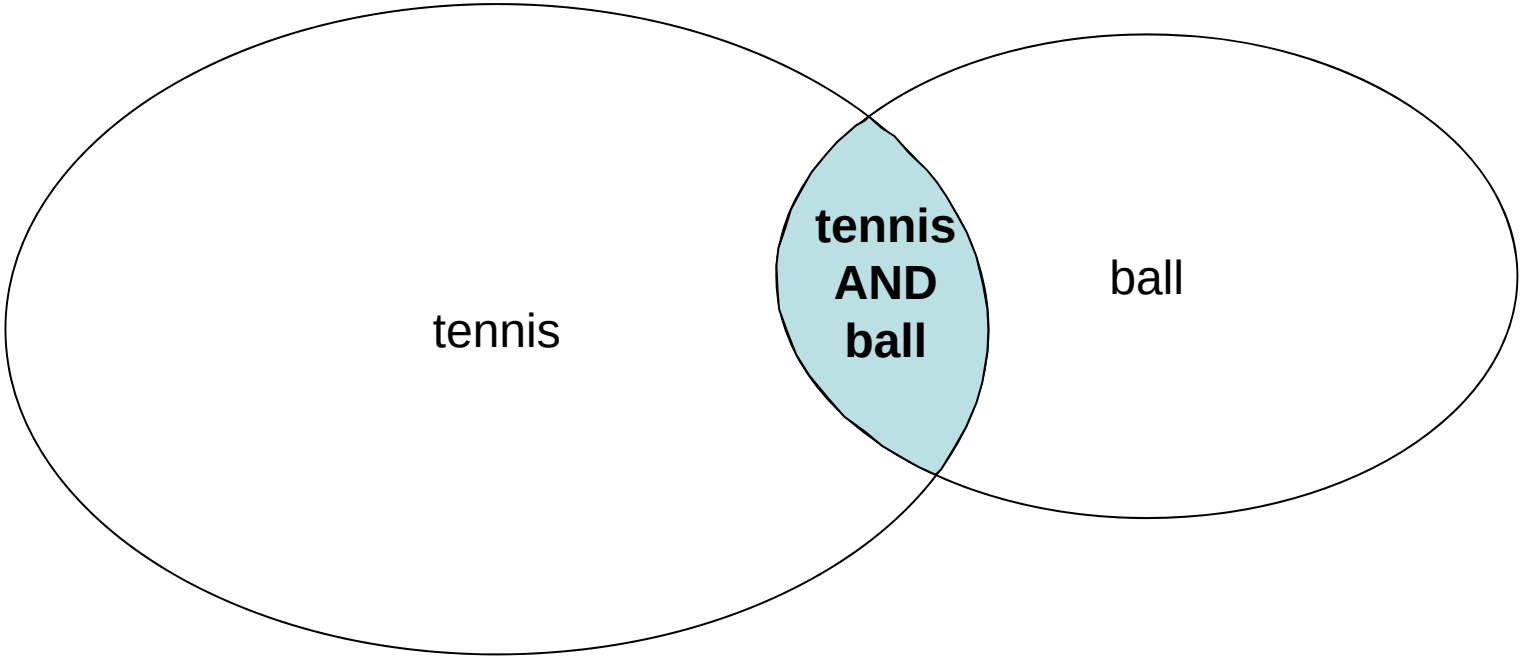
- AND (or +)
- OR
- NOT (or ANDNOT or -)

Boolean operators



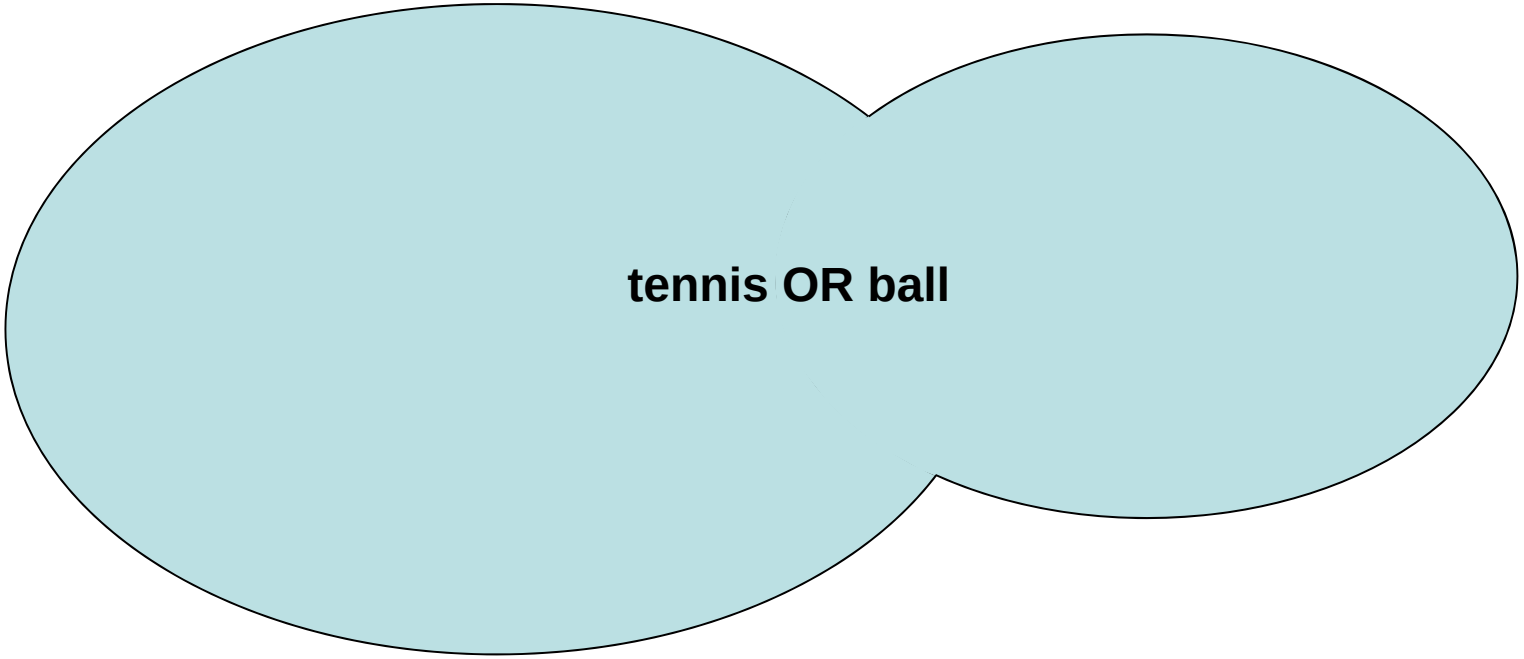
- Results in PCT collection (English titles):
  - **219** (tennis)
  - **2'829** (ball)
  - **3'048 total**

Boolean operators: AND



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

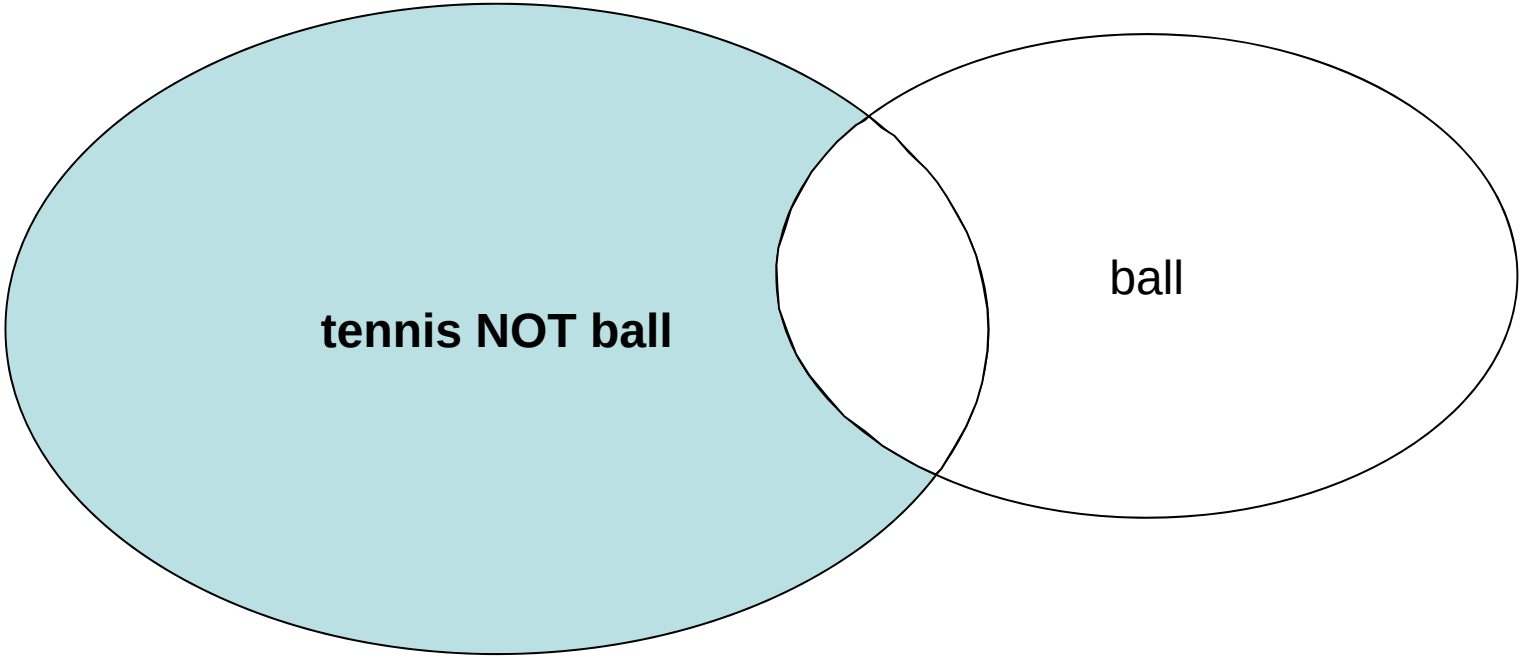
Boolean operators: OR



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

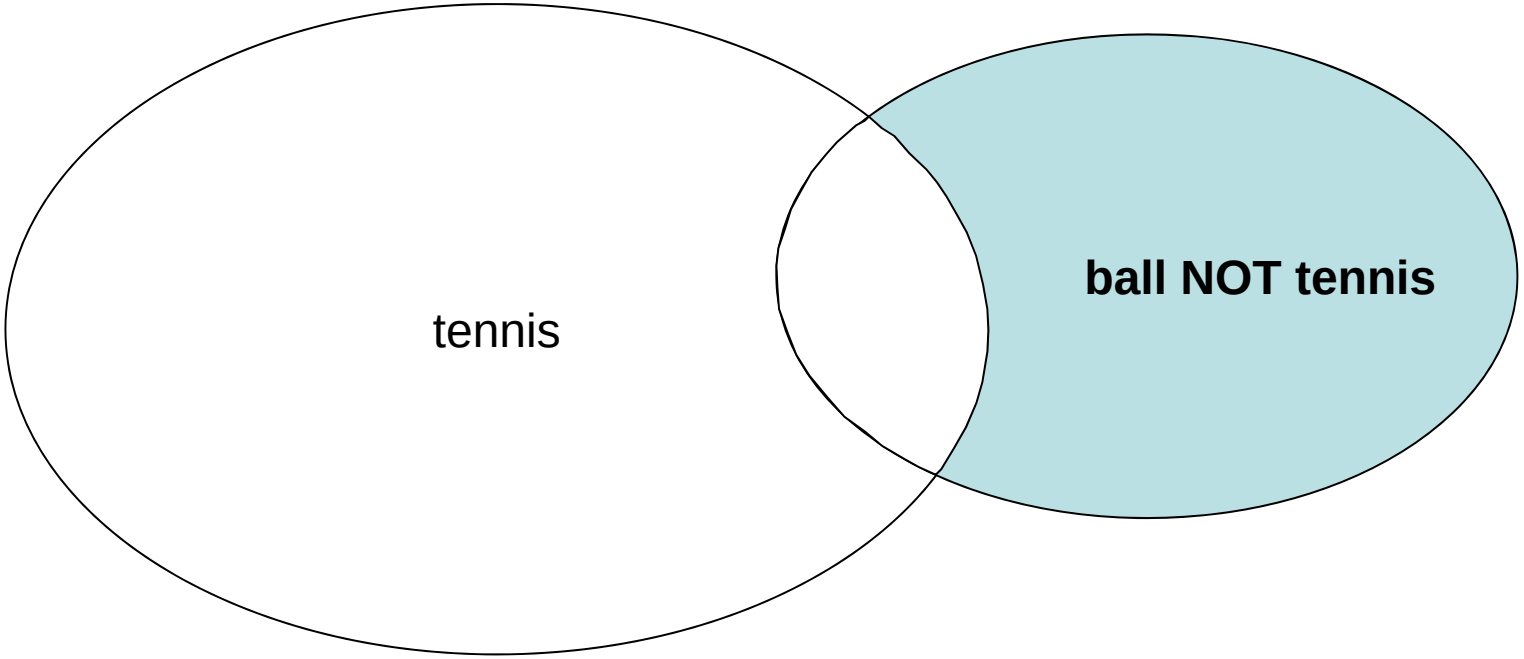
→ Avoids double counting tennis AND ball

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: Rationale

- corn AND fertilizer

WO 2008/040445 also describes that 4-{[(6-chloropyrid-3-yl)methyl](methyl)amino}furan-2(5*H*)-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, nematicides, fungicides, growth-regulating substances, herbicides, safeners, fertilizers or semiochemicals.

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■ ■ ■

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.

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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 Lützau

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 Lützau

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 Lützau

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

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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

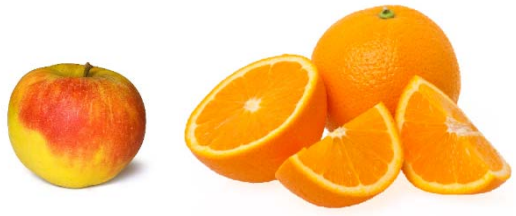
or

?

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

Nesting: Rationale

- apples AND oranges OR bananas



or

?

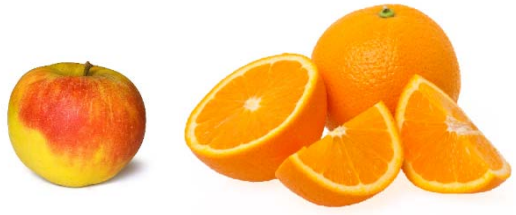
Photo source: Evan Amos, Zoofari, Amada44 (Wikimedia)

Nesting: Rationale

- apples AND oranges OR bananas

or

?



or

?

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

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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

- **electr**icity
- **electr**ical
- **electr**ic
- **electr**onic
- **electr**omagnetic
- …

Wildcard operators

- **electr**icity
- **electr**ical
- **electr**ic
- **electr**onic
- **electr**omagnetic
- …

→ 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

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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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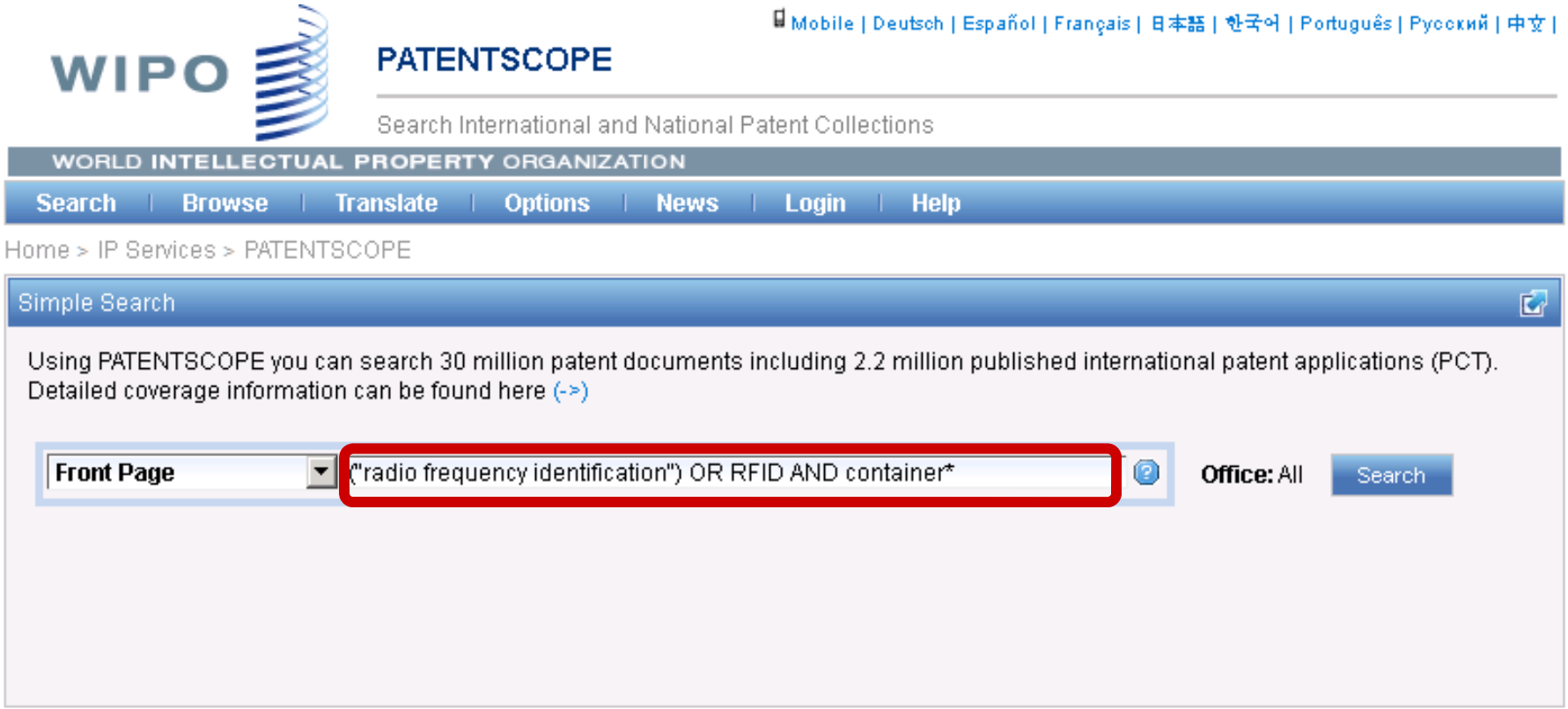
Search



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Search

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Search: Results

Sort by: Pub Date Desc | View: All | List Length: 10

No	Ctr	Title	PubDate	Int.Class	Appl.No	Applicant	Inventor
1.	WO	WO/2013/063415 - AVOIDING THE MISAPPLICATION OF CONTENTS IN ONE OR MORE CONTAINERS	02.05.2013	A01M 7/00	PCT/US2012/062154	PETERSON, John	PETERSON, John
I A method for avoiding the misapplication of contents in one or more containers, the method comprising: providing a first smart label (e.g. RFID tag), the first smart label comprising first information corresponding to a first recipe for a first composition to be applied by a machine to crops in a first portion of a field, the first recipe based on geofence information for the first portion of the field; and assigning by a processor the first smart label to a first container that stores the first composition and color coding said container.							
2.	US	20130099901 - Systems and Methods for Secure Supply Chain Management and Inventory Control	25.04.2013	G06K 7/01	13710267	Mojix, Inc.	Jones Christopher R.
Systems for encoding and reading RFID tags on a collection of items are shown. One embodiment of the invention includes a plurality of items, where each item possesses an item identifier string, and a plurality of RFID tags, where an RFID tag is affixed to each of the items and each RFID tag is encoded with a code word element generated using at least all of the item identifier strings. In many embodiments, the collection is a plurality of goods contained within a case, pallet, container or storage area.							
3.	WO	WO/2013/059839 - CONTAINER SEAL SECURITY DEVICE	25.04.2013	G08B 13/14	PCT/ZA2012/000064	JOLLIFFE, Harry	JOLLIFFE, Harry
ABSTRACT A tamper indicating device 10 for a seal for a container includes a locking unit comprising a holder 12 which spans a conventional locking bolt 22 and receives an insert 14 for securing the tag 20 of the locking bolt in position. The device has an RFID facility electronically linked with at least one identity code associated with the locking bolt 22 and/or the container number. The device 10 is for single - use and once locked in place is required to be broken to be removed.							

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Thank you for your attention!

Any questions?

For more information, please contact:

tisc@wipo.int

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