



M04 Introduction to patent search and analysis

TEST

Question 1: Why to conduct a patent search?

Question 2: What are the main sources of non-patent information?

Question 3: What is the role of intellectual property in technology transfer?

<Pick one correct answer>

- A. Intellectual property is not one of the elements of technology transfer and is not important in the technology transfer process.
- B. Intellectual property is category of intellectual assets that can be protected by law and as such can be owned and sold/assigned. The use and exploitation of intellectual property by third parties can be controlled.
- C. Intellectual property in technology transfer only plays a role in the field of litigation, where the value is sought primarily through settlements and court awarded damages in patent infringement suits.



Question 4: What are the main databases for patent search which of them are free of charge?

Question 5: What are the main parts of the content of the patent record?

Question 6: Explain the IPC classification.

Question 7: What sections are at the highest hierarchical level of classification?

Question 8: Mention logical operators in patent search and their usage.

Question 9: Work with Espacenet and try to find valid patent for heating and cooling device for buses.

Question 10: Write the number of patents of the Nobel Prize-winning invention of the "polymerase chain reaction" used to amplify DNA which is often cited in more recent patents that utilize and modify this technology?

Testing Set - Evaluation/Grading Criteria

Participant's successful completion of the module shall be evaluated by test consisting of 10 questions. Each question shall be provided with three readily available options, whereby participant shall pick one correct answer.

Participant needs to successfully answer at least 6 out of 10 questions.



Correct Answers

Question 1, 2, 4, 5, 6, 7

See text in study materials.

Question 3

Correct answer: B.

Question 8

Logical operators are: AND, OR, ANDNOT, XOR

- Neighboring or approximation operators (NEAR).
- Truncation: the primary root using an operator called a wildcard, usually an asterisk (*), question mark (?), dollar sign (\$), or percent sign (%).
- Nesting: using parentheses () to organize a search.
- Phrase: the use of quotation marks «» to surround a single search.



Question 9

The screenshot shows the Espacenet Patent search interface. At the top, there are logos for Espacenet, European Patent Office, and language options (English, Deutsch, Français, Contact, Change country). Below the navigation bar, there are search options: Search, Result list, My patents list (0), Query history, Settings, and Help.

The main section is titled "Search the European classification". It contains two search boxes: "Find classification(s) for keywords" and "Find description for a symbol". The search results are displayed in a table with columns for classification codes and descriptions. The following table represents the visible results:

Classification Code	Description
B06F11	Control or safety systems or apparatus for controlling or recording for 2007/1181 control valves per se
B06H1	Heating, cooling or ventilating devices (heating, cooling or ventilating devices providing other air treatment, the other treatment being irrelevant, ...)
H04L12	Data switching apparatus (computer networks, signalling or data transfer systems, signal processing, memories, ...)
G05D13	Systems controlled by a computer (G05D13/00, G05D13/00 take precedence, automatic)
G05D23	Control of temperature (automatic switching arrangements for electric heating apparatus H05B1/02; controlling industrial heating)
H04L21	Arrangements, apparatus, circuits or systems, not covered by a single one of groups H04L1/00 to ...
H05B19	Programme-control systems (specific applications see the relevant places, e.g. A47L15/40; clocks with attached or built-in means control)
F04B21	Piston pumps characterised by the driving means to their working members, or by combination with, or adaptation to, specific driving engines or motors, not otherwise provided for (predominate)
F04B29	Component parts, details, or accessories, of pumps or pumping systems, not otherwise provided for in, or of interest apart from, groups F04B20/...
H02K3	Casings; Enclosures; Supports (casings for electric apparatus in general H02K3/00)

At the bottom of the screenshot, there is a search bar with the text "Find classification(s) for keywords" and a search box containing the query "air condition* (bus* OR co:". A "Search" button is located to the right of the search box.



Bibliographic data: EP 2147812 (A1)

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Air conditioning device for a transport vehicle and a corresponding transport vehicle

Page bookmark [EP 2147812 \(A1\) - Air conditioning device for a transport vehicle and a corresponding transport vehicle](#)

Publication date: 2010-01-27

Inventor(s): BELKOUCHE YAZID YANISS [FR] ±

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Classification: - international: **B60H1/32**
- European: [B60H1/00H2](#); [B60H1/32A](#)

Application number: EP20080161089 20080724

Priority number(s): EP20080161089 20080724

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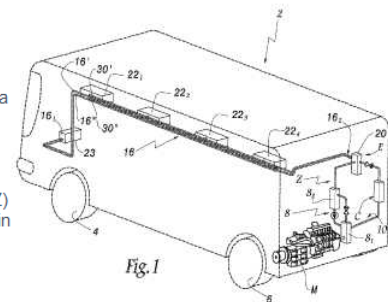
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Cited documents: → [WO9834807 \(A1\)](#) → [DE3501738 \(A1\)](#) → [EP1331113 \(A1\)](#) → [DE202006010428U \(U1\)](#) → [View all](#)

Abstract of EP 2147812 (A1)

[Translate this text](#)

This device comprises a main zone (Z) for the production of cold which comprises a compressor (8), a main loop (10) carrying a main refrigerant, and a condensation stage (C) traversed by this main loop (10), at least one diffuser (22 1 -22 4) and an auxiliary loop (16) carrying an auxiliary refrigerant. This auxiliary loop (16) is in heat exchange with the main loop (10), in a first exchanger (20) placed in the vicinity of the main zone (Z), this auxiliary loop (16) also being in heat exchange with the air of the passenger compartment of the vehicle to be air conditioned, while the compressor of the main zone (Z) is a chemical compressor (8) that is capable of drawing its operating energy from: the heat contained in the exhaust gases of the engine (M) of the vehicle; - the heat contained in the cooling water of the engine of the vehicle; and - a source of top-up energy (15).



Question 10

Correct answer: EP0200362