



DELIVERABLE

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Grant Agreement number: 250485
Project Title: Digital Mechanism and Gear Library goes Europeana

D6.2 - Intermediate report on entered metadata sets

Revision: 1.1

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P	Public	x
C	Confidential, only for members of the consortium and the Commission Services	

Revision History

Revision	Date	Author	Organisation	Description
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1.0	18.06.2011	C. Schneider	RWTH	Final version
1.1	20.06.2012	S. Falke	IUT	Review

Statement of originality:

This deliverable contains original unpublished work except where clearly indicated otherwise. Acknowledgement of previously published material and of the work of others has been made through appropriate citation, quotation or both.

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1. Introduction and Workpackage objectives

This document provides information on the results of WP6 “Entering metadata for content” which have been achieved during the 2nd year of thinkMOTION project. The aim of the work package is to provide an adequate set of metadata for each content item. In general metadata are defined as follows:

“Metadata describes other data. It provides information about a certain item's content. For example, an image may include metadata that describes how large the picture is, the colour depth, the image resolution, when the image was created, and other data. A text document's metadata may contain information about how long the document is, who the author is, when the document was written, and a short summary of the document.”¹

Main tasks

The work in WP6 “Entering metadata for content” includes two tasks:

The objective of **Task 6.1** is to enter an appropriate set of metadata for each content item. The task involves the completion and (if necessary) the correction of the metadata entered as a result of the workflow in WP3. The metadata sets for the different types of content are defined in accordance with the standards of Dublin Core (DC) and Europeana Semantic Elements (ESE). Additionally the language of the entered metadata sets is marked in order to facilitate the translation work in WP8.

Task 6.1 also interacts with WP7 “Who-is-who”, where the rudimentary *metadata set for persons* which was defined in the beginning (see “Guidelines for entering metadata” in D6.1), has been refined for the final set of metadata for biographies/persons (see D7.1).

The aim of **Task 6.2** is the preparation and publication of guidelines for entering metadata. These guidelines cover the conversion of existing metadata and the entering of new metadata in line with the required metadata for Europeana. In addition, the guidelines are the basis for the staff training activities in WP10.

2. Resources, workflow and results

The following chapter describes shortly the resources for metadata and the applied workflow for entering metadata within the thinkMOTION project. A detailed description is given in Deliverable D6.1. The focus will be on the results achieved by the consortium during the 2nd year of the project.

¹ <http://www.techterms.com/definition/metadata>

2.1 Resources for metadata

In D6.1 resources for metadata were described, which the partners had identified during the 1st project year, such as university libraries, archives, bibliographic catalogues and patent databases for text based contents. These sources also delivered metadata for the 2nd project year.

2.2 Workflow

Within the thinkMOTION project all partners are working on the web-based database “ProDB”. This database supports an efficient workflow for the registration and maintenance of all metadata assigned to each content item by offering appropriate input masks (see D6.1).

As described in Deliverable D6.1, several tools and tutorials were developed during the first year of the project.

Another tutorial has been developed recently, which describes the entering of *metadata for patent documents* in detail. This was necessary, because the metadata for patent documents differ from those of other text documents and so the categories of the input masks had to be adapted. The result is shown in Figure 1; the tutorial is attached in ANNEX 1.

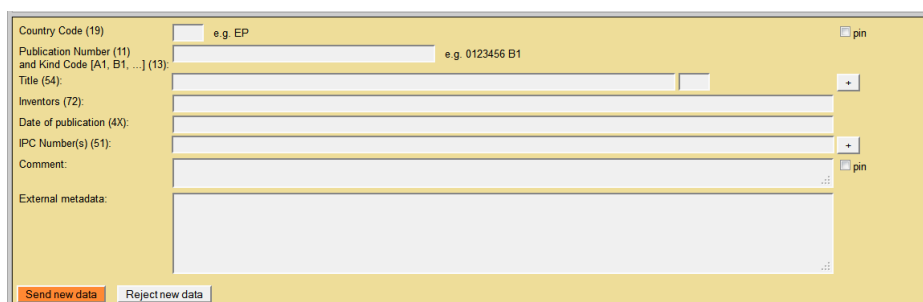
The image shows a web-based form titled "Simplified Metadata Editor for Patent Documents". The form has a yellow background and contains several input fields. At the top left, there is a "Country Code (19)" field with a dropdown menu showing "e.g. EP" and a "pin" button. Below it is a "Publication Number (11) and Kind Code [A1, B1, ...] (13)" field with a dropdown menu showing "e.g. 0123456 B1" and a "pin" button. The "Title (54)" field is a large text area with a "pin" button. Below that is the "Inventors (72)" field, followed by the "Date of publication (4X)" field. The "IPC Number(s) (51)" field has a dropdown menu and a "pin" button. The "Comment" field is a large text area with a "pin" button. At the bottom, there is an "External metadata" field. At the very bottom of the form, there are two buttons: "Send new data" and "Reject new data".

Figure 1: Simplified Metadata Editor for Patent Documents

Especially the tutorials have contributed to a fast adaption of all partners to the necessary steps and workflows. Therefore, the work during the 2nd year of thinkMOTION could proceed without or with only minor problems.

2.3 Entered metadata sets into thinkMOTION database

Compared to the results achieved in the first year of the project, the consortium has reached a significant progress in the amounts of metadata sets, which is shown in Table 1.

Especially the number of registered metadata for images has been increased successfully; the same applies for text documents. Almost 70% of these text documents are articles (from journals, proceedings, etc.) and other documents. The category “other” covers mainly teaching materials, such as lecture notes and examinations tasks.

The consortium has entered about 18.000 metadata sets for images, which were obtained from different sources like books, patents or articles but also from external content providers such as museums.

Beside this analogue content, the amount of multimedia items has been increased to almost 1.200 metadata sets for animations and movies.

Within the 2nd year of thinkMOTION project 72 new mechanism descriptions have been created. In D6.1 a detailed description of ProDB was given, especially regarding the special tool “mechanism description”. This function allows the creation of very valuable items mainly for expert users of DMG-Lib. The creation of these items is of course desirable, but at the same time very time-consuming and requires a lot of knowledge about mechanism science.

Table 1: Entered metadata sets during 1st and 2nd project year

Type of content	Amount of entered metadata sets	
	1 st year	2 nd year
Text documents	5.987	25.601
<i>Article</i>	2.276	8.175
<i>Book</i>	274	2.174
<i>PhD</i>	83	776
<i>Patent</i>	1.689	4.799
<i>Other</i>	300	9.677
Persons	4.972	8.138
Images	140	18.138
Movies	0	502
Animations	0	692
Mechanism descriptions	0	72
Total (without persons)	6.127	45.005

The numbers shown in Table 1 represent the status “metadata entered” and do not give information on the amount of items which are available online for DMG-Lib and Europeana users.

This is due to the applied workflow within the thinkMOTION project. The first step of item production is entering metadata, only then the process of scanning and processing starts. After that, the content is uploaded and finally prepared for online presentation. This process leads to the mentioned delay between the work steps. The actual amount and development of online available items is reported in the documents related to WP5. Also the numbers given for “persons” do not give a statement on the expected result of 1.500 biographies. The exact figures are given in the reports on WP7.

ANNEX 1: Simplified Metadata Editor for Patent Documents



TUTORIAL

Simplified Metadata Editor for Patent Documents

(19)

(11) **EP 1 792 694 B1**

(12) **EUROPEAN PATENT SPECIFICATION**

(45) Date of publication and mention of the grant of the patent: **02.06.2010** Bulletin 2010/22

(21) Application number: **05766262.9**

(22) Date of filing: ~~20.07.2005~~

(54) **ARM STRUCTURE FOR ROBOT**
ARMSTRUKTUR FÜR ROBOTER
STRUCTURE DE BRAS POUR ROBOT

(84) Designated Contracting States: **AT DE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR**

(30) Priority: **20.07.2004 JP 2004211921**
20.07.2004 JP 2004211923

(43) Date of publication of application: ~~06.06.2007~~ Bulletin 2007/23

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(51) Int. Cl.: **B25J 9/06 (2006.01)** **B23P 19/00 (2006.01)**
B23P 21/00 (2006.01) **B25J 17/00 (2006.01)**
B25J 19/00 (2006.01)

(86) International application number: **PCT/JP2005/013313**

(87) International publication number: **WO 2006/009170 (26.01.2006 Gazette 2006/04)**

(74) Representative: **Charlton, Elkington and Fife LLP**, Prospect House, 8 Pembroke Road, Sevenoaks, Kent TN3 1XR (GB)

(56) References cited: **EP-A1- 0 158 722** EP
DE-A1- 10 305 399 JP
JP-A- 10 291 800 JP
JP-A- 2003 039 351 JP
JP-A- 2004 001 112 JP

(4X) Date of publication: **2010**

(51) IPC Number(s): **B25J 9/06**
B23P 21/00
B25J 19/00
B23P 19/00
B25J 17/00

Country code (19): **EP** e.g. EP
Publication Number (11): **1792694 B1** e.g. 0123456 B1
Publication Number (11) and Kind Code [A1, B1, ...]:
Title (54): **Arm Structure for Robot** en
The first title is the main title. Further titles are parallel titles (translations to other languages)
Armstruktur für Roboter de
Inventor (72): **Inada, Takahiro** - 10036004 pin
Maeguchi, Yui - 3413004 pin
Kato, Isao - 10037004 pin
Isomura, Tadashi - 10038004 pin
Date of publication (4X): **2010**
IPC Number(s) (51): **B25J 9/06**
B23P 21/00
B25J 19/00
B23P 19/00
B25J 17/00
Comment:
External metadata:

Version 1.0

Ilmenau, 2012-02-08

Author: Veit Henkel (IUT)

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1. Preamble

For entering metadata of documents into the *DMG-Lib* database *ProDB*, which is used in the *thinkMOTION* project, a set of input masks, called *Simplified Metadata Editor for Common Documents*, was developed.

Patent documents have some metadata which are different from common documents and so it was necessary to develop some special input masks for patent documents. This set of input masks is called *Simplified Metadata Editor for Patent Documents* and is based on the *Simplified Metadata Editor for Common Documents*.

In this tutorial only the *Simplified Metadata Editor for Patent Documents* is described. But for a better understanding, it is necessary to read the tutorial for the *Simplified Metadata Editor for Common Documents* first. Especially adding of new persons (inventors of the patent) is not described in this tutorial, because it is similar to the workflow for common documents. But this step is absolutely necessary if a patent should be entered into *DMG-Lib* database *ProDB* and the inventor is not yet stored in the database.

Please note: The important keywords of the step descriptions in this tutorial are in **bold** letters. The names of buttons or fields, which are visible in the English *ProDB* version, are in *italics*.

2. Short Explanation of Terms used in *ProDB* Masks and Tutorial

For newer patents, standards for the notation of the bibliographical data in the patent documents are used in most of the important industrial countries. Unfortunately these standards have changed over the years and the older patents have often their own numbering systems depending on time and country. That makes it not easy for the *thinkMOTION* project staff.

The main idea of collecting patents in the *DMG-Lib* is not to build a database, which can be used for an extensive and complete patent research similar to the databases of the patent offices! Our aim is it to collect interesting patents in the field of motion systems, without the claim to completeness over all patents and without all the research functionality of the established patent databases. That allows us in the *thinkMOTION* project to reduce the full bibliographical set of metadata of the patents to a minimum set of metadata for the *DMG-Lib*.

Important metadata are the **Title** of the invention (patent document), the **Inventor** and the **Date of Publication** of the current patent document. The process of the patent issuance has more than one step and that is the reason for more than one date (day, month, year) at the patent documents. Normally, the date of publication of the current document should be used for the *DMG-Lib*. Further metadata are the **Country Code**, which tell us the country in which the patent was published and the so called **Kind-of-Document Code (Kind-Code)**.

During the process of patent issuance, more than one document for the same patent will be produced. Among other things they differ usually from each other by the Kind-Code. A simplified example for German patents after the year 2004: The letter "A" in the Kind-Code means: this unexamined document was applied and was laid open for inspection in this current form and "B" means: this document is the patent specification which was granted in this current form.

The used characters for the Kind-Code can reach from “A” to “Z” and are normally followed by a number usually for the version. The content of these documents, which belongs to the same invention (patent), can be changed not or only a little and the title and the inventors are normally the same. So we should import only one of these documents. If available, please enter the patent specification document in the latest version. If not available, e.g. the patent was not granted, take the patent application document. In the *DMG-Lib*, the Kind-Code is only important to have a unique identifier for the patent documents.

The next metadata is the **International Patent Classification number (IPC)**. The IPC is a hierarchical system of terms, which indicates the subject to which the invention relates and give the user further details of the document’s content. In some cases, especially for older patents or for patents of some countries the IPC is not available. The information source for the IPC numbers can be the metadata set in the patent offices’ database or the patent document itself. Older patents are often post-classified, so that the IPC is only entered in the patent database and is not written in the patent document.

Why are the IPC numbers important for *DMG-Lib* respectively *thinkMOTION*?

In the patents, technical terms are often paraphrased with words which nobody is using and nobody knows. The IPC numbers gives the patent documents a kind of keywords in a common and understandable technical language. The patent offices provide IPC-lists in different languages. These lists contain an assignment between the IPC number and the classification keywords. (E.g. IPC = ‘B66F 3/04’: “Devices, e.g. jacks, adapted for uninterrupted lifting of loads with racks actuated by pinions with several racks”)

In the *thinkMOTION* project, we are going to use the IPC numbers to import the IPC-terms (“keywords”) from these lists automatically. This saves you the time for searching and entering the IPC terms manually. The advantage of these IPC-terms or keywords in the *DMG-Lib* is that the user gets the possibility to find the document with his or her common technical language even though these terms are not written in the full text of the patent document.

For newer patent documents, normally all bibliographical data are marked in the patent document with the so-called INID-Codes. INID stands for *Internationally agreed Numbers for the Identification of (bibliographic) Data*. These numbers are helpful to find the correct metadata in the patent documents and to avoid faults. The INID-Codes are printed in the patent document nearby the metadata normally in brackets or in a circle. Unfortunately, the INID-Codes are not used in any patents, especially older patents or patents from particular countries. So that it is not a help in any case. In the *Simplified Metadata Editor for Patent Documents* the fields of the input masks are marked with the INID-Codes to give a support for entering metadata.

It is not necessary to know all details about patent codes. More information, give the standards of the WIPO - *World Intellectual Property Organization* (www.wipo.int). But it is not necessary for the *thinkMOTION* project.

3. Fields of Input Mask for Patent Documents

In this chapter the fields for entering metadata for patent documents into *ProDB* are shortly described. The Workflow, or how these fields are to be filled in, is described in the next chapter.

Figure 1 shows the input mask for adding a new metadata set for a patent document, which is not yet in the *ProDB*. Table 1 gives a short description of the input fields, the related INID-Codes and the necessity for entering into *ProDB*.

Figure 1 - Empty input mask for adding a new metadata set for a patent document

Table 1 - Meaning of the metadata input fields in the *ProDB* (see Figure 1)

Metadata input field in <i>ProDB</i>	Description	INID-Code ¹⁾	Necessity
Country Code	Mostly 2 characters in front of the publication number which characterize the country in which the patent document was published (Examples: EP, US, ES, IT, FR, DE, RO, ...) <i>Hint: You can pin the Country Code if you entering many patents from the same country</i>	19	Must be filled if known
Publication Number and Kind Code	The number of the patent document without the country code and followed by the "Kind-of-document code" according WIPO-Standard ST.16; it indicates the type of the document (Examples: A1, B1, ...)	11 13	Must be filled if known Must be filled if known
Title	Title of the invention as written in the document. If translations are available, please add a further title fields by pressing the plus button	54	Mandatory (must be filled)
Language code of the title (no field name visible in mask)	The code must be entered according to ISO 639-1 language codes, which can be found in the online help for <i>ProDB</i> handling.		Mandatory (must be filled)
Inventors	Name(s) of inventor(s)	72	Must be filled if known
Date of publication	Date of making this document available to the public – not other mentioned dates such as the date of filing the application (INID code 22). Even though the invention was made before, the date of publication of the current document has to be typed into this field!	4x ²⁾	Mandatory (must be filled)
IPC Number(s)	International Patent Classification number(s), which helps to characterize the content of the patent document; type in only the numbers not the keywords (we intend to add the keywords later automatically)	51	Must be filled if known
Comment	If you have internal comments for yourself or other	-	

	<i>DMG-Lib</i> colleagues, you can enter your notes in the field Comment. Please write all comments in English.		
External metadata	External metadata are the original metadata which can be found for example in reference lists of papers, on websites of library databases, etc. Please always use copy & paste to fill in this field. <u>Hint:</u> You can enter the external metadata here first and then use it for copy and paste to the other fields above.	-	

¹⁾ INID - Internationally agreed Numbers for the Identification of (bibliographic) Data according to the WIPO-Standard ST.9 [http://www.wipo.int/standards/en/pdf/03-09-01.pdf]; WIPO - World Intellectual Property Organization; for newer patent documents, the INID-Codes are written at the document

²⁾ INID-category 40, depends on the document type and the history of the patent application process, "x" stands for one of the number 1-8 (e.g. 45 means: making a patent document available to the public by printing or similar process on which grant has taken place on or before the said date)

4. Workflow for Entering a Patent Document into *ProDB*

For entering patent documents into *ProDB*, please use the ***Simplified Metadata Editor for Patent Documents***, which is linked from our *ProDB* startup page (see Figure 2).

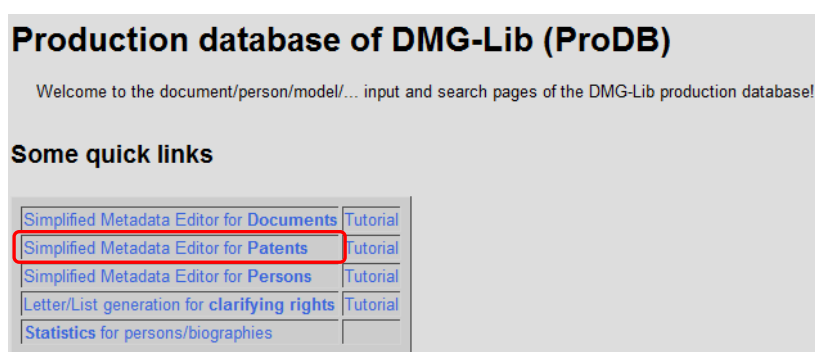


Figure 2 - Startup page in the *proDB* with the linked ***Simplified Metadata Editor for Patent Documents***

To avoid entering the same patent document several times, you have to check whether the patent is already in the *ProDB* or not. This is the same step as for common documents.

For this step you have two search fields, the ***Search for the publication number*** and the ***Search for a title*** of the patent document (see Figure 3).

The publication number search uses different information, the Country Code, the Document Number and the Kind-Code. (These terms are described above). This type of search is only successful if the fields for these metadata are filled for the already entered patent document.

But in a lot of cases, the publication number is only entered in a *ProDB*'s field for a parallel title of the patent document. (That is a mistake, which should be fixed.) In order to avoid double documents, it is more safety to use the search for the patent title instead of the search for the publication number!

The screenshot shows the 'Simplified Metadata Editor for Patent Documents' interface. On the left is a sidebar with menu items: Hints, Doc. input, Per. input, List gener., List manag., Free works, Statistics, All files, and All lists. The main content area has a title 'Simplified Metadata Editor for Patent Documents' and a 'Tutorial' button. Below this is a search field for a title (54) with a red box and a circled '1.' around it. Below the search field is an 'Add new dataset' button with a red box and a circled '2.' around it. At the bottom, there is a 'Handled docs' section with a dropdown for 'Show the last 10 processed documents.' and a table with columns: ID, Short Title, Authors, Year, Edit here, and Edit on expert pages.

Figure 3 - Search mask of the Simplified Metadata Editor for Patent Documents – Workflow steps numbered

While typing in the patent title, the *ProDB* automatically suggests similar titles which are already stored in the database. By moving the mouse cursor over the titles, additional metadata are overlaid in a yellow tool tip to support the decision if the current document already exists in the *ProDB* or not. For more details about this auto completion function, please read the tutorial of the “*Simplified Metadata Editor for Common Documents*”.

If the patent is not already in the *ProDB*, a new data set must be generated and an input mask (see Figure 4) appears by pressing the **Add new dataset** button.

The title from the search field will be taken automatically into the **Title** field of the input mask to save time. But please make sure that the title is correct. Then type in the abbreviation for the language of the title. If there are written titles in different languages in the patent document or in the patent office’s database, please add parallel titles by pressing the + button and type in these titles also. (Adding parallel titles is detailed described in the tutorial for the *Simplified Metadata Editor for Common Documents*.)

Country Code (19): EP e.g. EP pin

Publication Number (11) and Kind Code [A1, B1, ...] (13): 1792694 B1 e.g. 0123456 B1

Title (54): Arm Structure for Robot en

Inventors (72):

Inada, Takahiro	-	10036004	<input type="checkbox"/> pin
Maeguchi, Yuji	-	3413004	<input type="checkbox"/> pin
Kato, Isao	-	10037004	<input type="checkbox"/> pin
Isomura, Tadashi	-	10038004	<input type="checkbox"/> pin

Date of publication (4X): 2010

IPC Number(s) (51):

B25J 9/06	
B23P 21/00	-
B25J 19/00	-
B23P 19/00	-
B25J 17/00	-

Comment: pin

External metadata: pin

3.

4.

Figure 4 - Input mask for adding a new metadata set for a European patent for example

The next field is for the **Inventors**. Please type in the name of each inventor in a separate field and check separately whether the person is already stored in the *ProDB*. For more details, see the tutorial of the *Simplified Metadata Editor for Common Documents*. Please observe that in a patent document usually more persons are mentioned. **Please type in only the names of the inventors not of the applicant(s), the grantee(s), holder(s), assignee(s) or owner(s), attorney(s) or agent(s) or any other persons!**

The next field is the **Date of publication**. Normally, there is more than one date written in a patent. Please use the date of the publication of the current document, which you hold in your hand or you see at your screen. Do not use publication dates of other documents, which are related to the current document. Please work carefully to find the correct publication date of the current patent document.


The **IPC Number(s)** are the next fields in the input mask of the *Simplified Metadata Editor for Patent Documents*. Please find the IPC number at the patent document or in the patent offices' database.

Internal comments for yourself or for other *thinkMOTION* staff can be entered in the field **Comment**. Write your comments in English please to make it readable for others.

External metadata means the original text of the metadata how you have found it in literature, lists of authors, etc. Please fill in this field by Copy&Paste. External metadata usually include additional information and can be used to solve errors. Never write any own comments in this field.

After checking all your data input, please press the **Send new data** button. After this, a new metadata set for a patent document was generated. Changes can be made on this data set by using the search and *editSimple* function in the *ProDB*.

5. Some Examples for Entering Patents into ProDB

(19) 

(12) **EUROPEAN PATENT SPECIFICATION**

(45) Date of publication and mention of the grant of the patent:
02.06.2010 Bulletin 2010/22

(21) Application number: **05766262.9**

(22) Date of filing: ~~20.07.2005~~ (**)

(54) **ARM STRUCTURE FOR ROBOT**
ARMSTRUKTUR FÜR ROBOTER
STRUCTURE DE BRAS POUR ROBOT


(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LJ LT LU LV MC NL PL PT RO SE SI SK TR

(30) Priority: **20.07.2004 JP 2004211921**
20.07.2004 JP 2004211923

(43) Date of publication of application:
~~06.06.2007~~ Bulletin 2007/23

(73) Proprietor: **KAWASAKI JUKOGYO KABUSHIKI KAISHA**
Kobe shi, Hyogo 650-8670 (JP)

(72) Inventors:
• **INADA, Takahiro**
6750101 (JP)
• **MAEGUCHI, Yuji**
6512274 (JP)

(11) 
EP 1 792 694 B1

(51) Int. Cl.:
B25J 9/06 (2006.01) **B23P 19/00** (2006.01)
B23P 21/00 (2006.01) **B25J 17/00** (2006.01)
B25J 19/00 (2006.01)

(86) International application number:
PCT/JP2005/013313

(87) International publication number:
WO 2006/009170 (26.01.2006 Gazette 2006/04)

(74) Representative: **Charlton, Elkington and Fife LLP, Prospect House 8 Pembroke Road Sevenoaks, Kent TN13 1XR (GB)**

(56) References cited:
EP-A1- 0 158 722 EP-
DE-A1- 10 305 399 JP-
JP-A- 10 291 800 JP-
JP-A- 2003 039 351 JP-
JP-A- 2004 001 112 JP-

Footnotes:
*) Type in the language codes of the titles
**) Don't use this date! It isn't the publication date of the patent.

Country Code (19)	EP e.g. EP
Publication Number (11) and Kind Code [A1, B1, ...] (13):	1792694 B1 e.g. 0123456 B1
Title (54):	Arm Structure for Robot en * The first title is the main title. Further titles are parallel titles (translations to other languages). Armstruktur für Roboter de -
Inventors (72):	Inada, Takahiro - 10036004 <input type="checkbox"/> pin Maeguchi, Yuji - 3413004 <input type="checkbox"/> pin Kato, Isao - 10037004 <input type="checkbox"/> pin Isomura, Tadashi - 10038004 <input type="checkbox"/> pin
Date of publication (4X):	2010
IPC Number(s) (51):	B25J 9/06 - B23P 21/00 - B25J 19/00 - B23P 19/00 - B25J 17/00 -
Comment:	
External metadata:	

Europäisches Patentamt
European Patent Office
Office européen des brevets

Publication number: **0 141 457 B1**

EUROPEAN PATENT SPECIFICATION

Date of publication of patent specification: **10.02.88**

Application number: **84201472.2**

~~Date of filing: 11.10.84 ***~~

Int. Cl.⁴: **G 01 K 5/38, G 01 K 5/32
G 01 D 5/04**

A method of making a gas pressure thermometer.

Priority: **12.10.83 NL 8303509**

~~Date of publication of application: 15.05.85 Bulletin 85/20 ***~~

Publication of the grant of the patent: **10.02.88 Bulletin 88/06 *****

Designated Contracting States: **AT BE CH DE FR GB IT LI LU NL SE**

References cited:
 CH-A- 273 997
 DE-A-3 143 061
 FR-A-2 309 847
 US-A-2 732 716

Country Code (19): **EP** e.g. EP

Publication Number (11) and Kind Code [A1, B1, ...] (13): **0141457 B1** e.g. 0123456 B1

Title (54): **A method of making a gas pressure thermometer** en
The first title is the main title. Further titles are parallel titles (translations to other languages).

Inventors (72): **Stiller, Johannes Gerardus** - 3814004 pin

Date of publication (4X): **1988**

IPC Number(s) (51): **G01K5/38
G01K5/32
G01D5/04**

Comment:

External metadata:

Stiller, Johannes Gerardus

Footnotes:

*) In some cases the country code is not explicit written in the patent document and the document code is to take from the WIPO-Standard ST.3 In the example, the headline „EUROPEAN PATENT SPECIFICATION“ says that this document is an European patent. And that means, that the country code is „EP“.

***) Select the language of the title

***) Don't use this date! It isn't the publication date of the patent.

Patented June 19, 1923.

1,459,655

UNITED STATES PATENT OFFICE

FRED G. CLINE, OF NEOSHO, MISSOURI.

LIFTING DEVICE.

Application filed ~~December 21, 1921.~~ Serial No. ~~523,954.~~

To all whom it may concern:

Be it known that I, FRED G. CLINE, a citizen of the United States, and a resident of Neosho, in the county of Newton and State of Missouri, have invented a new and

return bent over the upper end of the other 55 and a pivot pin 13 passed therethrough and through a shackle or hanger clip 12. The arms 10 may be distended or contracted by

Improved Lifting Device
 My invention which
 poses is more particu
 10 ing device for applic
 tomobile.

The general object
 provide a lifting de
 character so construc
 15 be adapted for eng
 member of the frame
 ing gear, wheels, spri
 the side frame bars
 moving or installing
 20 ber; or for lifting th
 tomobile without te
 parts of the car body
 placing of the differe

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- *) In some cases the country code is not explicit written in the patent document and the document code is to take from the WIPO-Standard ST.3 In the example, the headline „United States Patent Office“ says that this document is an European patent. And that means, that the country code is „US“.
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- ****) Don't use this number! It is the application serial number of the patent not the patent publication number!

Country Code (19)	US	e.g. EP	<input type="checkbox"/> pin
Publication Number (11) and Kind Code [A1, B1, ...] (13):	1459655	e.g. 0123456 B1	
Title (54):	Lifting device		en **) +
Inventors (72):	Cline, Fred G.	- 6642004	<input type="checkbox"/> pin
Date of publication (4X):	1923		
IPC Number(s) (51):			+ <input type="checkbox"/> pin
Comment:			
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(19) OFICIUL DE STAT PENTRU INVENȚII ȘI MARCI București

ROMÂNIA

(12) BREVET DE INVENȚIE

(21) Nr. cerere: **a 2006 00589** (***)

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(56) Documente din stadiul tehnicii:
 US 5913860;
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(54) **EXTRACTOR CHIRURGICAL**

(57) Rezumat:
 Invenția se referă la un extractor chirurgical, destinat

Country Code (19): RO e.g. EP

Publication Number (11) and Kind Code [A1, B1, ...] (13): 121762 B1 e.g. 0123456 B1

Title (54): Extractor chirurgical ro (**)

Inventors (72):
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(51) Int.Cl. A61B 17/88 (2006.01)

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