



# Patent Classification

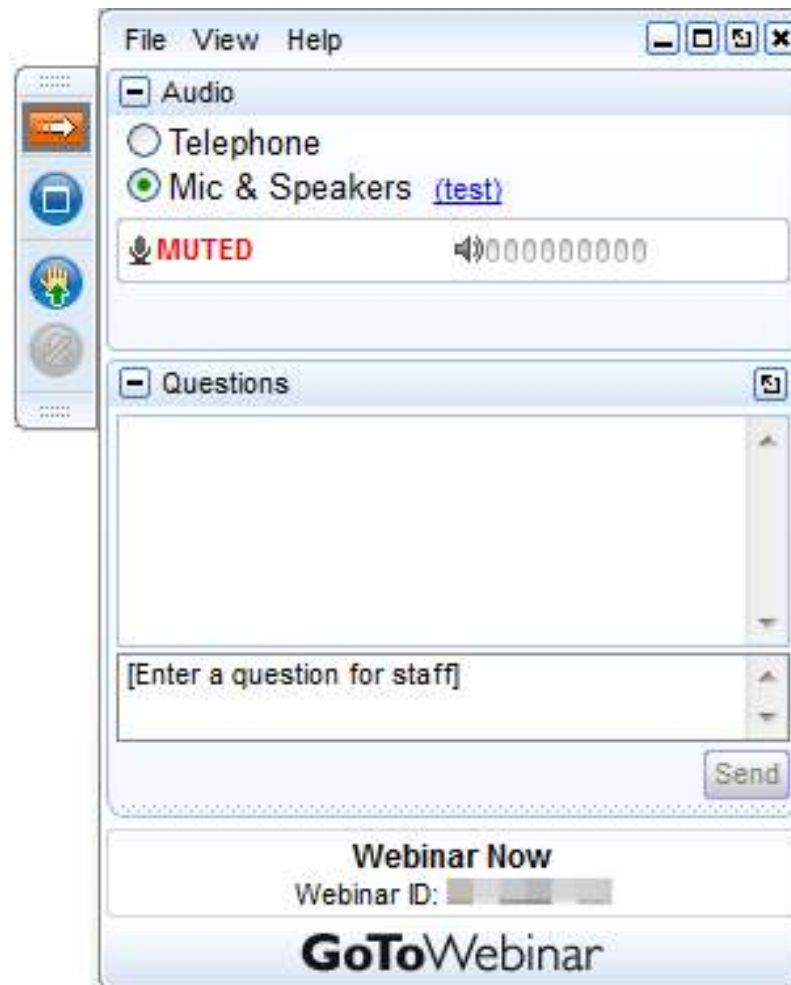
Structure and use

**Webinar**  
**12 September**  
**2013**

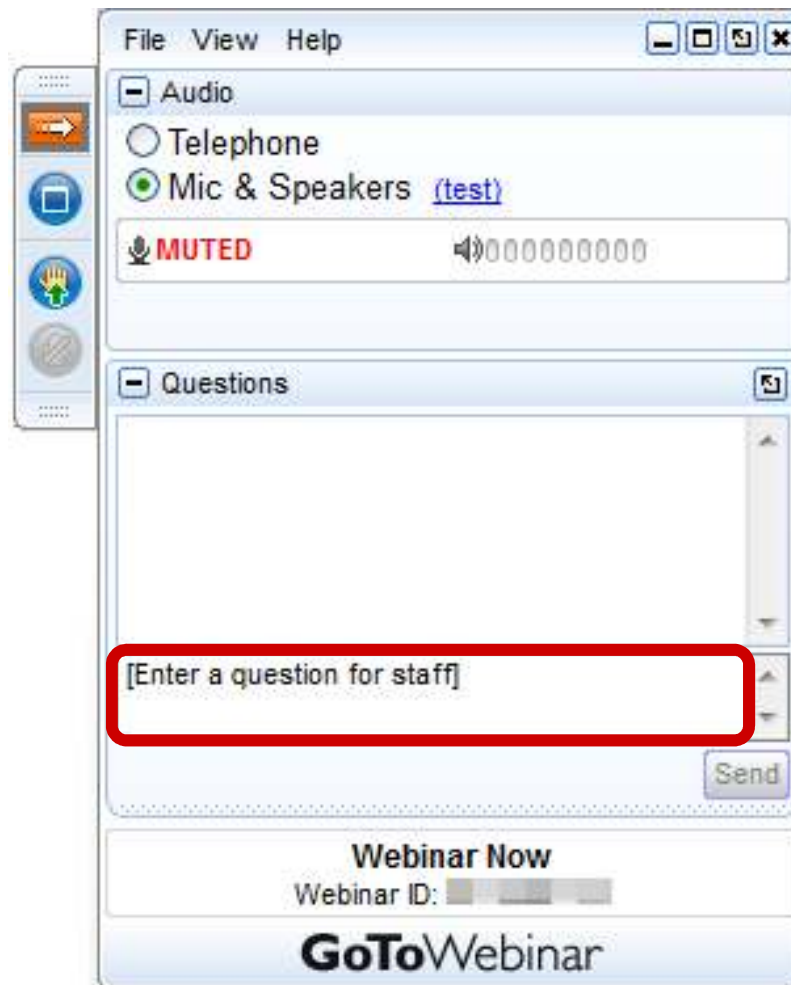
Andrew Czajkowski

Head, Innovation and Technology Support Section

# Webinar: Asking questions

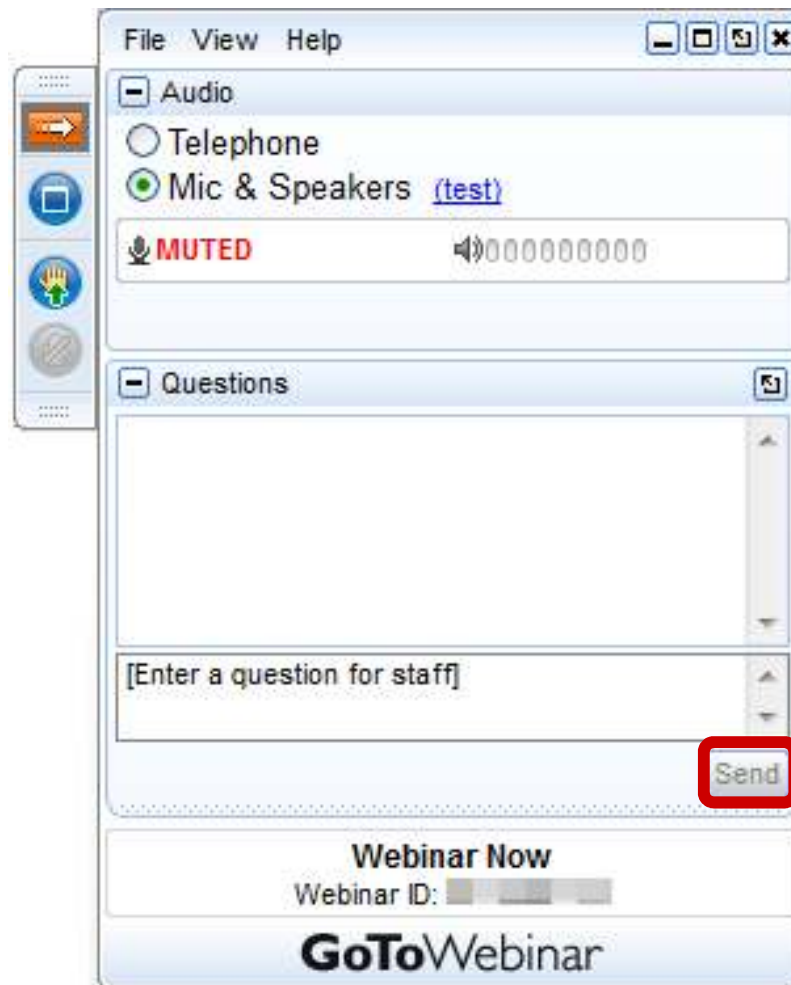


# Webinar: Asking questions



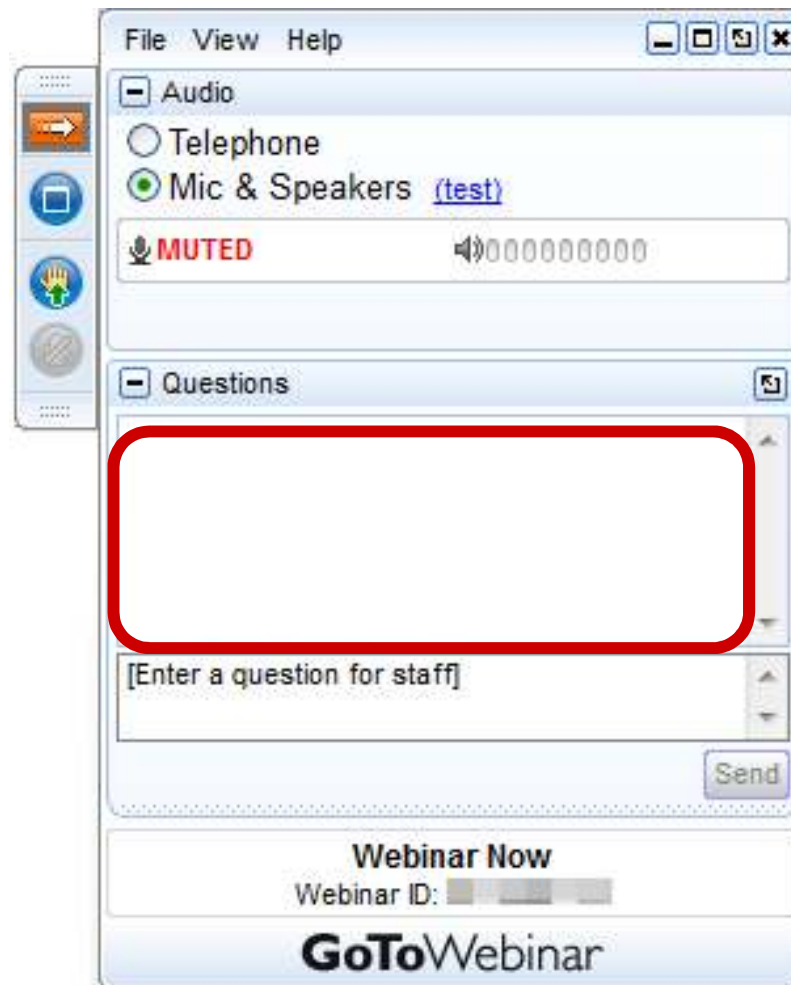
→ Enter your question

# Webinar: Asking questions



→ Press "Send"

# Webinar: Asking questions



→ See your questions and answers

# Overview

- Approaches for identifying appropriate patent classification
- Review of the structure of patent classification (IPC) and its publication

# Scenario



- A construction material company has asked you to identify technologies related to thermal insulation for houses.

Photo source: Andrew Dunn (top), Radomil (Wikipedia PL) (bottom)

# Scenario

- You decide to try using patent classification to identify relevant technologies.



# Advantages of patent classification

- Applied in a standardized manner
- Available for all (almost) patent documents
- Available for old patent documents for which little or no searchable text is available

# Approaches

- Review individual documents
- Analyze document sets
- Refer to patent classification publication



# Individual documents

The screenshot shows a search interface with a table of results. Three arrows point from the table to three patent document thumbnails. The first two thumbnails are selected, while the third is marked with a red X.

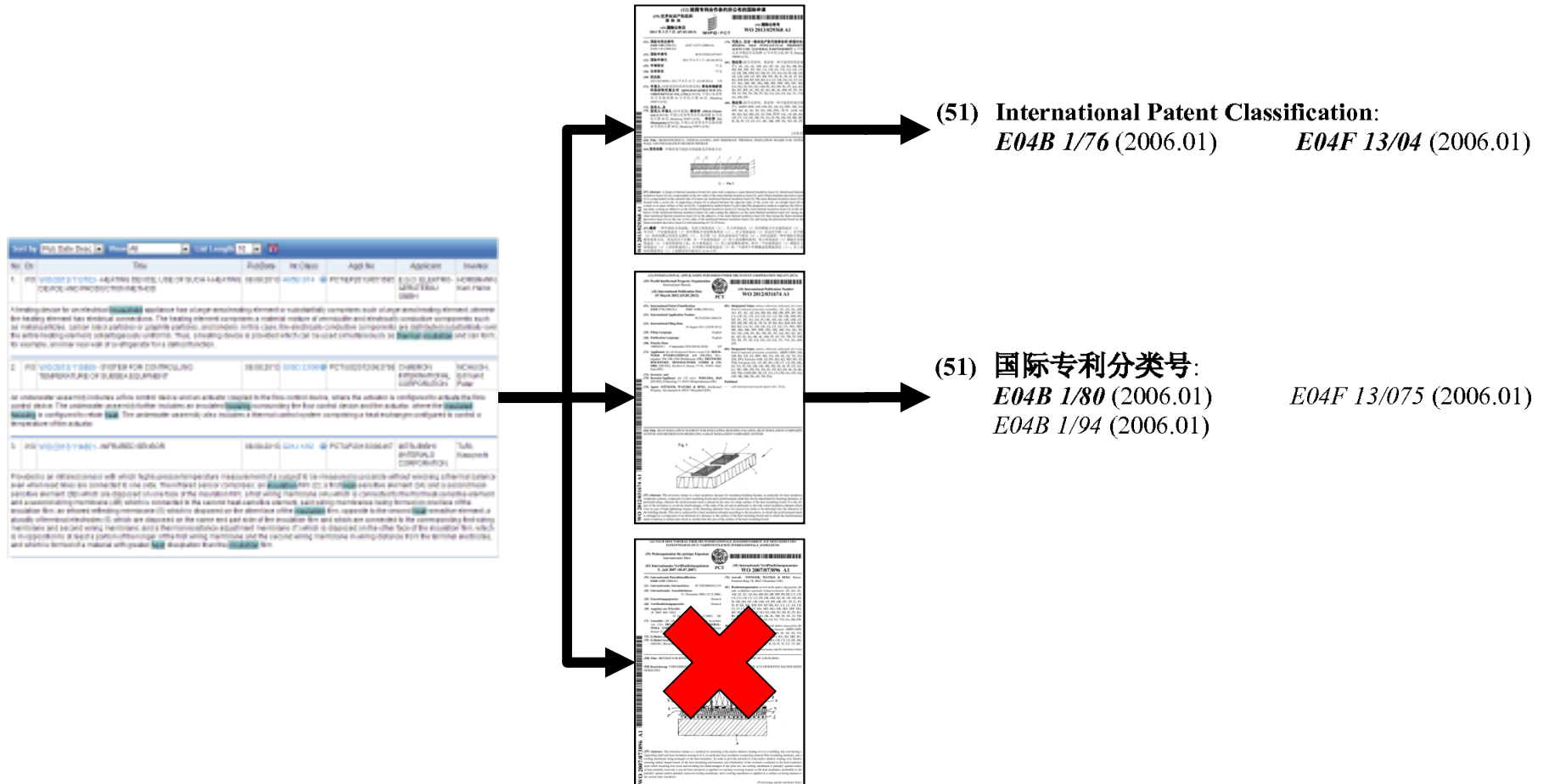
No.	Cl.	Title	PubDate	Re Class	App No	Applicant	Inventor
1.	IPC	WIGGERS SYSTEMS: METHOD, USE OF SUCH SYSTEMS, DEVICES AND PROGRAMS THEREFOR	20100221	WO/2010/01174	PCT/EP2008/05787	ELCO SYSTEMS, LOWENBURG, GERMANY	ELCO, GERMANY
2.	IPC	WIGGERS SYSTEMS: SYSTEM FOR CONTROLLING TEMPERATURE OF SURFACE EQUIPMENT	20100221	WO/2010/01174	PCT/EP2008/05787	ELCO SYSTEMS, LOWENBURG, GERMANY	ELCO, GERMANY
3.	IPC	WIGGERS SYSTEMS: SURFACE EQUIPMENT	20100221	WO/2010/01174	PCT/EP2008/05787	ELCO SYSTEMS, LOWENBURG, GERMANY	ELCO, GERMANY

The three patent document thumbnails shown are:

- Thumbnail 1: Patent document WO/2010/01174 A1, showing a schematic diagram of a system.
- Thumbnail 2: Patent document WO/2010/01174 A1, showing a schematic diagram of a control system.
- Thumbnail 3: Patent document WO/2010/01174 A1, showing a schematic diagram of surface equipment, marked with a red X.

→ Select relevant documents

# Individual documents



→ Note classification symbols of relevant documents









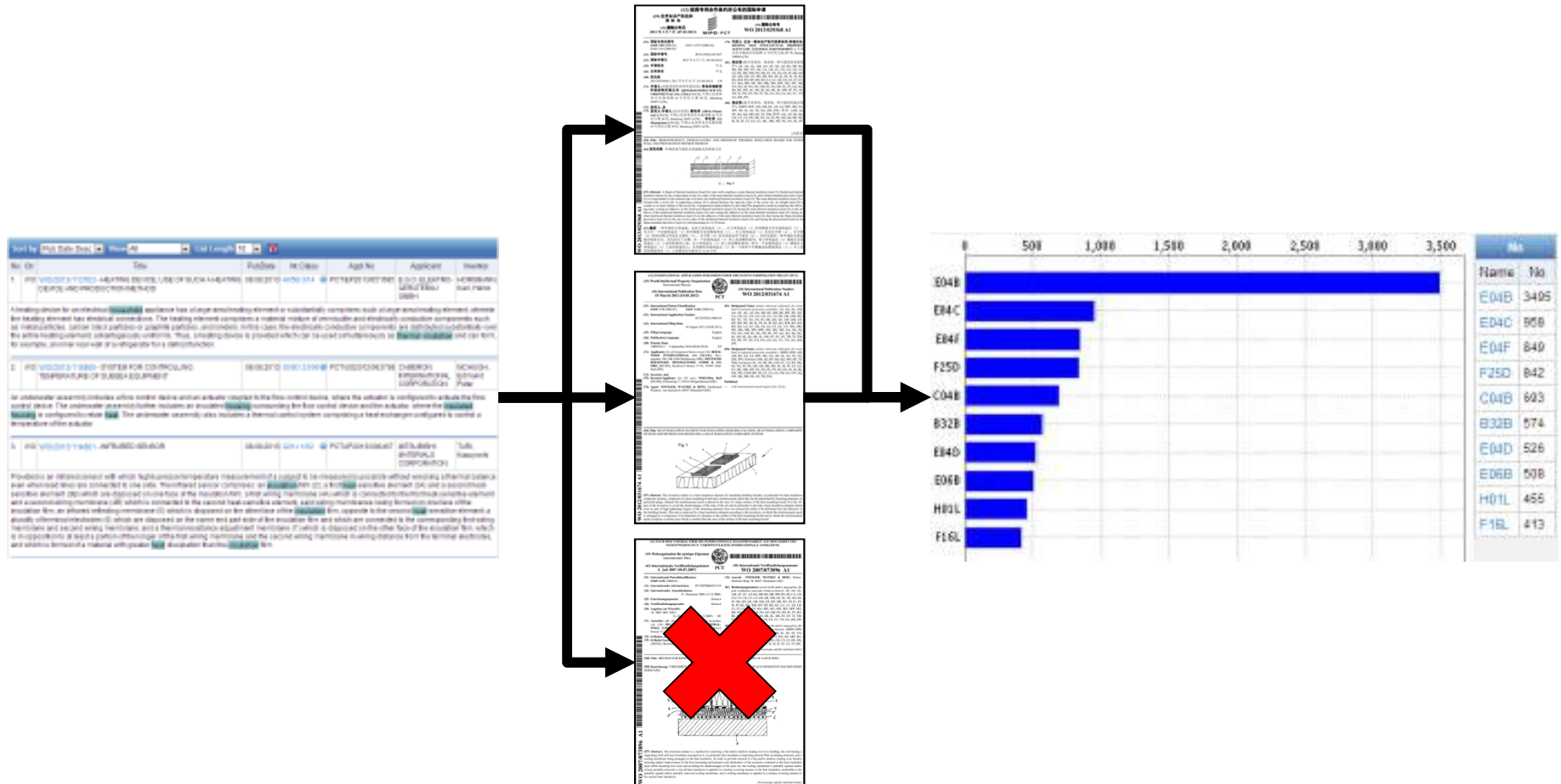
# Individual documents

The screenshot shows a search results page with a table of patent entries. Three arrows point from the table to three document thumbnails. The first two thumbnails show technical drawings and text, while the third is marked with a large red 'X'.

No.	Cl.	Title	PubDate	Re Class	App No	Applicant	Inventor
1.	IPC	WIGGERS SYSTEMS: METHOD, USE OF SUCH SYSTEMS, DEVICES AND PROGRAMS THEREFOR	18/02/2010	4000/0174	PCT/EP2008/05787	ELCO SYSTEMS, LOWENBURG, GERMANY	WIGGERS, RALF
2.	IPC	WIGGERS SYSTEMS: SYSTEM FOR CONTROLLING TEMPERATURE OF SURFACE EQUIPMENT	18/02/2010	4000/0174	PCT/EP2008/05787	ELCO SYSTEMS, LOWENBURG, GERMANY	WIGGERS, RALF
3.	IPC	WIGGERS SYSTEMS: SURFACE DEVICE	18/02/2010	4000/0174	PCT/EP2008/05787	ELCO SYSTEMS, LOWENBURG, GERMANY	WIGGERS, RALF

→ Select relevant documents

# Document sets



→ Statistically analyze relevant documents

# Classification publication (IPC)

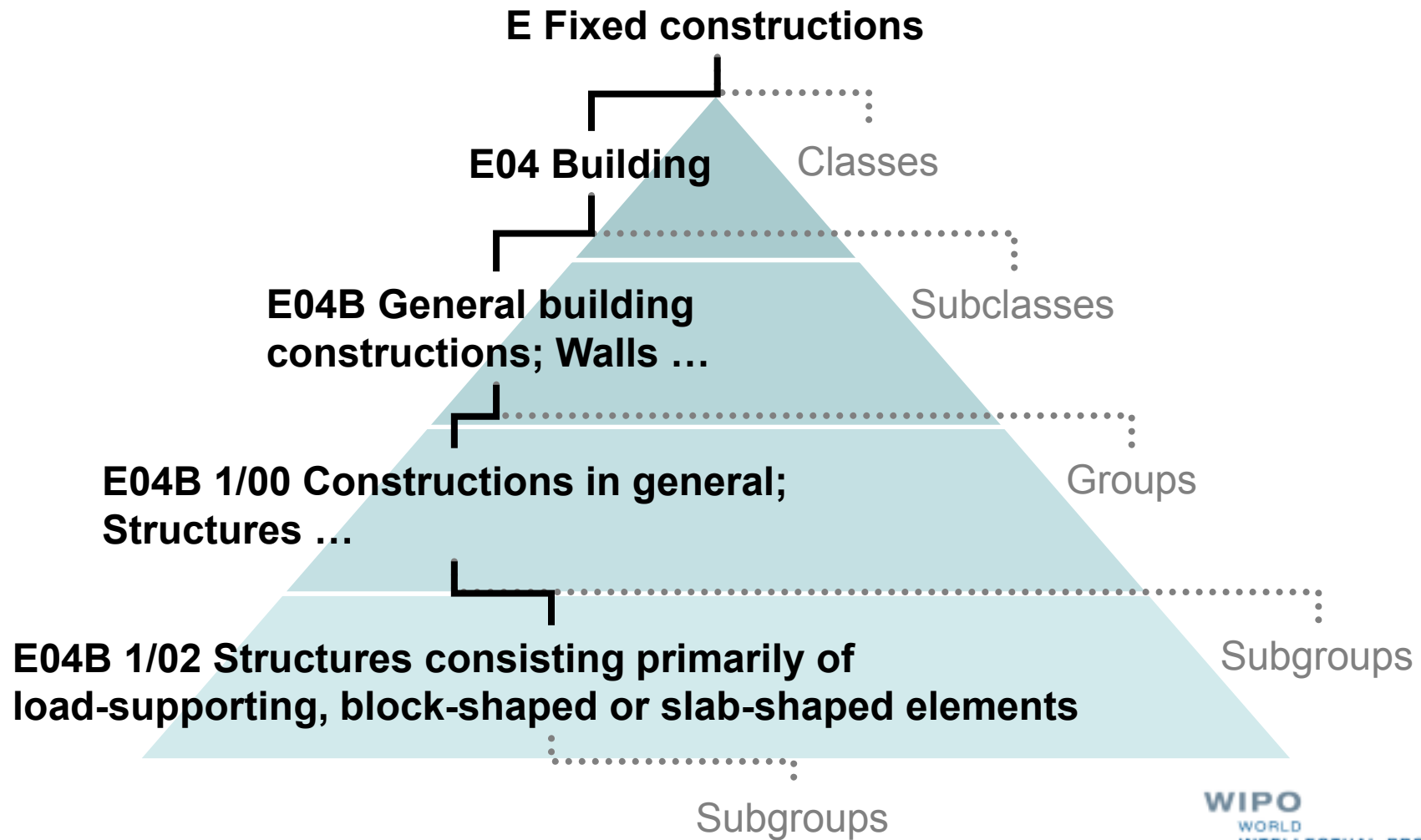
## Scheme

Scheme	RCL	Compilation	Catchwords	Corrigendum
E			<b>SECTION E — FIXED CONSTRUCTIONS</b>	
E04			<b>BUILDING</b>	
E04B			<b>GENERAL BUILDING CONSTRUCTIONS; WALLS, e.g. PARTITIONS; ROOFS; FLOORS; CEILINGS; INSULATION OR OTHER PROTECTION OF BUILDINGS</b> (border constructions of openings in walls, floors, or ceilings E06B 1/00)	
			Note(s)	
			1. This subclass <u>covers</u> working methods used in constructing new buildings and analogous working methods on existing buildings. Other working methods on existing buildings, except those for insulating, are classified in group E04G 23/00. [5]	
			2. In this subclass, the following term is used with the meaning indicated: <ul style="list-style-type: none"> <li>"ceiling" includes all the finishing <b>material</b> concealing the underside of the load-carrying ceiling structure or roof structure. [4]</li> </ul>	
E04B 1/00			Constructions in general; Structures which are not restricted either to walls, e.g. partitions, or floors or ceilings or roofs (scaffolds, shutterings E04G); structures specially adapted for buildings for special purposes, general layout of buildings, e.g. modular co-ordination, E04H; the particular parts of buildings, <u>see</u> the relevant groups for those parts)	
E04B 1/02			- Structures consisting primarily of load-supporting, block-shaped or slab-shaped elements (E04B 1/32-E04B 1/36 take precedence)	
E04B 1/04			-- the elements consisting of concrete, e.g. reinforced concrete, or other stone-like <b>material</b>	
E04B 1/06			--- the elements being prestressed	
E04B 1/08			-- the elements consisting of metal	
E04B 1/10			-- the elements consisting of wood	
E04B 1/12			-- the elements consisting of other <b>material</b>	
E04B 1/14			-- the elements being composed of two or more <b>materials</b> (of reinforced concrete E04B 1/04)	

## Catchwords

Scheme	RCL	Compilation	Catchwords	Corrigendum
			<b>A</b>	<b>M</b>
			ABACUSES - ADHESION	MACADAMISED, - MARBLE(S)
			ADHESIVE(S) - ALKALI METALS	MACADAMIZED
			ALKALINE EARTH - ANEMOMETERS	MARCHING - MEDICINE(S)
			METALS	MEERSCHAUM - MICROPHONES
			ANEROID - ANTI-TOXINS	MICROPROCESSORS - MONOLINE
			ANVILS - ASPIRATOR	MONO-RAILS(S) - MUSCLES
			ASSEMBLIES - AWNS	MUSEUMS - MYOGRAPHS
			AXES - AZOXY	
			<b>B</b>	<b>N</b>
			BABIES - BARIUM	NACELLES - NIPPERS
			BARK - BEAUTY	NIPPLES - NUTMEG
			BECKMANN - BISMUTH	
			BISULFITES - BOLT(S)	<b>O</b>
			BOMBS - BRASSIERES	OAKUM - ORNITHOPTERS
			BRAZERS - BUILDING(S)	ORRERIES - OXYGEN
			BULBS - BUZZERS	OXYKETONE - OZOTYPY
			<b>C</b>	<b>P</b>
			CABINET(S) - CANDIES	PACKAGES - PARCHMENT
			CANDLE(S) - CARCASES, CARCASSES	PARING - PEELING
			CARCINOGENS - CATARACT(S)	PEENING - PEWTER
			CATATHERMOMETERS - CHALK	PFBC [= pressurised fluidised bed combustion]
			CHALKERS - CHIPS	PICK-UP(S) - PLACARDS
			CHIROMANTIC - CIRCUMCISION	PLACKETS - POACHING
			CIRCUS(ES) - COASTS	POCKET(S) - POLYUREAS
			COAT(S) - COLOURING, COLORING	POLYURETHANE(S) - PRALINES
				PRASEODYMIUM - PROPELLERS
				PROPELLING - PURSES

# Classification: Scheme (IPC)



# Classification: Scheme (IPC)

SECTION A — HUMAN NECESSITIES

SECTION B — PERFORMING OPERATIONS; TRANSPORTING

SECTION C — CHEMISTRY; METALLURGY

SECTION D — TEXTILES; PAPER

SECTION E — FIXED CONSTRUCTIONS

SECTION F — MECHANICAL ENGINEERING; LIGHTING;  
HEATING; WEAPONS; BLASTING

SECTION G — PHYSICS

SECTION H — ELECTRICITY

→ Identify an appropriate section (or set of sections)

# Classification: Scheme (IPC)

SECTION A — HUMAN NECESSITIES

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SECTION G — PHYSICS

SECTION H — ELECTRICITY

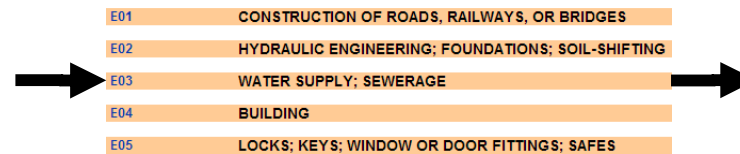
E01	CONSTRUCTION OF ROADS, RAILWAYS, OR BRIDGES
E02	HYDRAULIC ENGINEERING; FOUNDATIONS; SOIL-SHIFTING
E03	WATER SUPPLY; SEWERAGE
E04	BUILDING
E05	LOCKS; KEYS; WINDOW OR DOOR FITTINGS; SAFES



→ Identify an appropriate class (or set of classes)

# Classification: Scheme (IPC)

- SECTION A — HUMAN NECESSITIES
- SECTION B — PERFORMING OPERATIONS; TRANSPORTING
- SECTION C — CHEMISTRY; METALLURGY
- SECTION D — TEXTILES; PAPER
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- SECTION F — MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING
- SECTION G — PHYSICS
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**E04B** GENERAL BUILDING CONSTRUCTIONS; WALLS, e.g. PARTITIONS; ROOFS; FLOORS; CEILINGS; INSULATION OR OTHER PROTECTION OF BUILDINGS (border constructions of openings in walls, floors, or ceilings [E06B 1/00](#))

Note(s)

1. This subclass covers working methods used in constructing new buildings and analogous working methods on existing buildings. Other working methods on existing buildings, except those for insulating, are classified in group [E04G 23/00](#). [5]
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  - "ceiling" includes all the finishing material concealing the underside of the load-carrying ceiling structure or roof structure. [4]

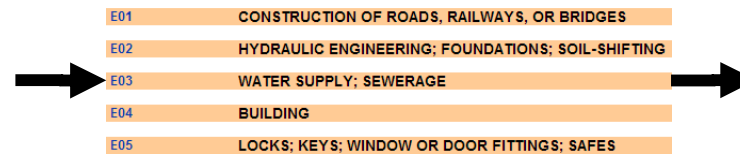
**E04C** STRUCTURAL ELEMENTS; BUILDING MATERIALS (for bridges [E01D](#); specially designed for insulation or other protection [E04B](#); elements used as building aids [E04G](#), for mining [E21](#); for tunnels [E21D](#); structural elements with broader range of application than for building engineering [F16](#), particularly [F16S](#))

**E04D** ROOF COVERINGS; SKY-LIGHTS; GUTTERS; ROOF-WORKING TOOLS (coverings of outer walls by plaster or other porous material [E04F 13/00](#))

→ Identify an appropriate subclass (or set of subclasses)

# Classification: Scheme (IPC)

- SECTION A — HUMAN NECESSITIES
- SECTION B — PERFORMING OPERATIONS; TRANSPORTING
- SECTION C — CHEMISTRY; METALLURGY
- SECTION D — TEXTILES; PAPER
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**E04D ROOF COVERINGS; SKY-LIGHTS; GUTTERS; ROOF-WORKING TOOLS** (coverings of outer walls by plaster or other porous material [E04F 13/00](#))



→ Continue as appropriate...



# Classification: Catchwords (IPC)

A	
ABACUSES	- ADHESION
ADHESIVE(S)	- ALKALI METALS
ALKALINE EARTH METALS	- ANEMOMETERS
ANEROID	- ANTI-TOXINS
ANVILS	- ASPIRATOR
ASSEMBLIES	- AWNS
AXES	- AZOXY

B	
BABIES	- BARIUM
BARK	- BEAUTY
BECKMANN	- BISMUTH
BISULFITES	- BOLT(S)
BOMBS	- BRASSIERES
BRAZIERS	- BUILDING(S)
BULBS	- BUZZERS

C	
CABINET(S)	- CANDIES
CANDLE(S)	- CARCASES, CARCASSES
CARCINOGENS	- CATARACT(S)
CATATHERMOMETERS	- CHALK
CHALKERS	- CHIPS
CHIROMANTIC	- CIRCUMCISION
CIRCUS(ES)	- COASTS
COAT(S)	- COLOURING, COLORING
COLTERS	- CONDIMENTS
CONDITIONING	- COPROSTANES
COPS	- COVERLETS
COVERS	- CRUETS
CRUMB TRAYS	- CVD [= chemical vapour deposition]
CYANAMIDE	- CYSTOSCOPES

→ Find the appropriate starting catchword

# Classification: Catchwords (IPC)

A	
ABACUSES	- ADHESION
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CRUMB TRAYS	- CVD [= chemical vapour deposition]
CYANAMIDE	- CYSTOSCOPES

Scheme	RCL	Compilation	Catchwords	Corrigendum
<b>BUILDING(S) E04</b>				
(1) kinds of BUILDING(S); features of BUILDING(S)				
air-conditioning or ventilation of BUILDING(S) F24F				
BUILDING(S) for particular purposes E04H				
devices for rescuing persons from BUILDING(S) A62B 1/00-A62B 5/00				
floating BUILDING(S) B63B 35/44				
foundations inserted underneath existing BUILDING(S) E02D 27/48				
inflatable tent or canopy-like BUILDING(S) E04H 15/20				
ladders attachable to BUILDING(S) E06C 1/34				
ladders fixed permanently to BUILDING(S) E06C 9/00				
lifts associated with BUILDING(S) B66B 9/00				
structures of BUILDING(S) E04B				
subaqueous BUILDING(S) E02D 29/00, E21D				
(2) construction of BUILDING(S)				
BUILDING(S) implements E04G				
cranes for erecting BUILDING(S) B66C				

→ Go to the relevant catchword

# Tip!

## ■ Pay attention to references and notes!

Constructions in general; Structures which are not restricted either to walls, e.g. partitions, or floors or ceilings or roofs (scaffolds, shutterings E04G; structures specially adapted for buildings for special purposes, general layout of buildings, e.g. modular co-ordination, E04H; the particular parts of buildings, see the relevant groups for those parts)

- Structures consisting primarily of load-supporting, block-shaped or slab-shaped elements (E04B 1/32-E04B 1/36 take precedence)
- the elements consisting of concrete, e.g. reinforced concrete, or other stone-like material

# Tip!

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- Structures consisting primarily of load-supporting, block-shaped or slab-shaped elements E04B 1/32-E04B 1/36 take precedence
- the elements consisting of concrete, e.g. reinforced concrete, or other stone-like material

# Scenario

- A construction material company has asked you to identify technologies related to thermal insulation for houses.

# Query

- **thermal**
- **insulation**
- **house**

# Query

- **thermal:** heat, temperature
- **insulation:** insulate
- **house:** building



# Query

- (thermal OR heat OR temperature)
- (insulat\*)
- (house\* OR housing\* OR building\*)

# Query

- (thermal OR heat OR temperature) NEAR (insulat\*)

# Query

- (thermal OR heat OR temperature) NEAR (insulat\*) **AND**  
**(house\* OR housing\* OR building\*)**

# Query

- ((thermal OR heat OR temperature) NEAR (insulat\*))  
AND (house\* OR housing\* OR building\*)

# Query

- ((thermal OR heat OR temperature) NEAR (insulat\*))  
AND (house\* OR housing\* OR building\*)

# Search (PATENTSCOPE)



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Front Page



(((thermal OR heat OR temperature) NEAR (insulat\*))) AND (house\* OR housi



Office: All

Search

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Results 1-10 of 13,109 for Criteria:FP:(((thermal OR heat OR temperature) NEAR (insulat\*)) AND (house\* OR housing\* OR building\*))  
Office(s):all Language:EN Stemming: true 🔍

prev
1 2 3 4 5 6 7 8 9 10
next

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Analysis »

Sort by: Pub Date Desc View All List Length 10 

No	Ctr	Title	PubDate	Int. Class	Appl. No	Applicant	Inventor
1.	WO	WO/2013/113703 - HEATING DEVICE, USE OF SUCH A HEATING DEVICE AND PRODUCTION METHOD	08.08.2013	H05B 3/14 	PCT/EP2013/051695	E.G.O. ELEKTRO-GERÄTEBAU GMBH	HORSMANN, Karl, Heinz

A heating device for an electrical **household** appliance has a large-area heating element or substantially comprises such a large-area heating element, wherein the heating element has electrical connections. The heating element comprises a material mixture of vermiculite and electrically conductive components such as metal particles, carbon black particles or graphite particles, and binders. In this case, the electrically conductive components are distributed substantially over the entire heating element, advantageously uniformly. Thus, a heating device is provided which can be used simultaneously as **thermal insulation** and can form, for example, an inner rear wall of a refrigerator for a defrost function.

# Results (PATENTSCOPE)

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Results 1-10 of 13,109 for Criteria:FP:(((thermal OR heat OR temperature) NEAR (insulat\*))) AND (house\* OR housing\* OR building\*))  
Office(s):all Language:EN Stemming: true

prev 1 2 3 4 5 6 7 8 9 10 next Page:1 / 1311 Go >

Refine Search  Search  

**Analysis**

Sort by: **Relevance** View: All List Length: 10

No	Ctr	Pub Date Desc	Title	PubDate	Int.Class	Appl.No	Applicant	Inventor
1.	WO	Pub Date Desc App Date Desc App Date Asc	HEATING DEVICE, USE OF SUCH A HEATING FUNCTION METHOD	08.08.2013	H05B 3/14	PCT/EP2013/051695	E.G.O. ELEKTRO- GERÄTEBAU GMBH	HORSMANN, Karl, Heinz

A heating device for an electrical **household** appliance has a large-area heating element or substantially comprises such a large-area heating element, wherein the heating element has electrical connections. The heating element comprises a material mixture of vermiculite and electrically conductive components such as metal particles, carbon black particles or graphite particles, and binders. In this case, the electrically conductive components are distributed substantially over the entire heating element, advantageously uniformly. Thus, a heating device is provided which can be used simultaneously as **thermal insulation** and can form, for example, an inner rear wall of a refrigerator for a defrost function.

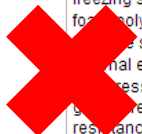
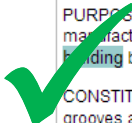


# Results (PATENTSCOPE)

Sort by: Relevance View All List Length 10							
No	Ctr	Title	PubDate	Int. Class	Appl.No	Applicant	Inventor
1.	KR	1020060100522 - HOLLOW THERMAL INSULATING PLYWOOD, A MOLD AND A MOLDING APPARATUS FOR MANUFACTURING THE HOLLOW THERMAL INSULATING PLYWOOD AND A MANUFACTURING METHOD THEREOF, FOR REDUCING WEIGHT AND INCREASING RIGIDITY	21.09.2006	E04B 1/80	1020050022082	DOOWON C&C CO., LTD.	LEE, KUY SEOP
<p>PURPOSE: A hollow thermal insulating plywood, a mold and a molding apparatus for manufacturing the hollow thermal insulating plywood, and a manufacturing method thereof are provided to decrease the weight of the plywood by forming holes, and to use the plywood as interior or exterior panels of a building by increasing rigidity, thermal insulation effect and fire resistance.</p> <p>CONSTITUTION: A hollow thermal insulating plywood(1) is made of thermal insulation material, and composed of two thermal insulation panels(2). Plural grooves are formed in the thermal insulation panel, and holes(3) are formed by facing the grooves of the thermal insulation panels in contacting the thermal insulation panels to each other. The hollow thermal insulating plywood is manufactured by contacting and fixing the thermal insulation panels. A mold for manufacturing the hollow thermal insulating plywood includes an upper mold with plural groove forming projections, a forming space containing thermal insulation powder, and a lower mold pressed by the upper mold to form the thermal insulation panel.</p> <p>© KIPO 2006</p>							
2.	RU	02357044 - HEAT INSULATED FOUNDATION	27.05.2009	E02D 27/35	2007104429/03		Лушников Владимир Вениаминович (RU)
<p>FIELD: construction. SUBSTANCE: invention is related to construction, namely to erection of buildings and structures on freezing heaving soils. Foundation on freezing soil includes rigid body comprising foot and wall, with gasket from the side of foot inverted to soil and made of heat insulation material, for instance from foam polystyrene, and also additional heat insulation material installed outside foundation limits. Upper edge of additional heat insulation material is pulled from the side of foundation external edge in the form of broken inserts via rigid body of foundation and is connected to additional heat insulator of opposite external edge of foundation. Pressure on soil in foundation foot is accepted as not higher than value of design resistance of heat insulation material to compression, and relative area of broken inserts (<math>\beta = A_{br.ins}/A_0</math>) is defined from ratio <math>\beta \leq 1 - \sigma_{max}/R</math>, where <math>A_{br.ins}</math> is area of broken inserts section, <math>m^2</math>, <math>A_0</math> is gross area of foundation section in place of inserts installation, <math>m^2</math>, <math>\sigma_{max}</math> is maximum tension in foundation material from external loads, MPa, <math>R</math> is design resistance of foundation material, MPa. Additional heat insulation material installed on external side of foundation foot is connected to heat insulation material of foundation external wall. Additional heat insulation material installed on internal side of foundation foot is connected to heat insulation material of foundation internal wall. Inserts of additional heat insulation material of foundation are connected to ceiling heat insulation material above foundation. Heat insulation material installed from external side of foundation wall is connected to heat insulation material of blind area. Heat insulation material installed on internal side of foundation wall is connected to heat insulation material of ceiling above foundation. EFFECT: provision of possibility to install foundation above design depth of heaving soil freezing, increased level of soil protection under foundation against freezing. 2 dwg</p>							


# Results (PATENTSCOPE)

Sort by: Relevance View All List Length 10							
No	Ctr	Title	PubDate	Int. Class	Appl.No	Applicant	Inventor
1.	KR	1020060100522 - HOLLOW THERMAL INSULATING PLYWOOD, A MOLD AND A MOLDING APPARATUS FOR MANUFACTURING THE HOLLOW THERMAL INSULATING PLYWOOD AND A MANUFACTURING METHOD THEREOF, FOR REDUCING WEIGHT AND INCREASING RIGIDITY	21.09.2006	E04B 1/80	1020050022082	DOOWON C&C CO., LTD.	LEE, KUY SEOP
<p>PURPOSE: A hollow thermal insulating plywood, a mold and a molding apparatus for manufacturing the hollow thermal insulating plywood, and a manufacturing method thereof are provided to decrease the weight of the plywood by forming holes, and to use the plywood as interior or exterior panels of a building by increasing rigidity, thermal insulation effect and fire resistance.</p> <p>CONSTITUTION: A hollow thermal insulating plywood(1) is made of thermal insulation material, and composed of two thermal insulation panels(2). Plural grooves are formed in the thermal insulation panel, and holes(3) are formed by facing the grooves of the thermal insulation panels in contacting the thermal insulation panels to each other. The hollow thermal insulating plywood is manufactured by contacting and fixing the thermal insulation panels. A mold for manufacturing the hollow thermal insulating plywood includes an upper mold with plural groove forming projections, a forming space containing thermal insulation powder, and a lower mold pressed by the upper mold to form the thermal insulation panel.</p> <p>© KIPO 2006</p>							
2.	RU	02357044 - HEAT INSULATED FOUNDATION	27.05.2009	E02D 27/35	2007104429/03		Лушников Владимир Вениаминович (RU)
<p>FIELD: construction. SUBSTANCE: invention is related to construction, namely to erection of buildings and structures on freezing heaving soils. Foundation on freezing soil includes rigid body comprising foot and wall, with gasket from the side of foot inverted to soil and made of heat insulation material, for instance from foamed polystyrene, and also additional heat insulation material installed outside foundation limits. Upper edge of additional heat insulation material is pulled to the side of foundation external edge in the form of broken inserts via rigid body of foundation and is connected to additional heat insulator of opposite internal edge of foundation. Pressure on soil in foundation foot is accepted as not higher than value of design resistance of heat insulation material to compression, and relative area of broken inserts (<math>\beta = A_{br.ins}/A_0</math>) is defined from ratio <math>\beta \leq 1 - \sigma_{max}/R</math>, where <math>A_{br.ins}</math> is area of broken inserts section, <math>m^2</math>, <math>A_0</math> is design area of foundation section in place of inserts installation, <math>m^2</math>, <math>\sigma_{max}</math> is maximum tension in foundation material from external loads, MPa, <math>R</math> is design resistance of foundation material, MPa. Additional heat insulation material installed on external side of foundation foot is connected to heat insulation material of foundation external wall. Additional heat insulation material installed on internal side of foundation foot is connected to heat insulation material of foundation internal wall. Inserts of additional heat insulation material of foundation are connected to ceiling heat insulation material above foundation. Heat insulation material installed from external side of foundation wall is connected to heat insulation material of blind area. Heat insulation material installed on internal side of foundation wall is connected to heat insulation material of ceiling above foundation. EFFECT: provision of possibility to install foundation above design depth of heaving soil freezing, increased level of soil protection under foundation against freezing. 2 dwg</p>							




# Record (PATENTSCOPE)

National Biblio. Data

Permanent Link/ Bookmark: 

**Application Number:** 1020050022082 **Application Date:** 17.03.2005  
**Publication Number:** 1020060100522 **Publication Date:** 21.09.2006  
**Publication Kind :** AKOREAN PATENT ABSTRACTS

**IPC:** E04B 1/80 

**Applicants:** DOOWON C&C CO., LTD.  
**Inventors:** LEE, KUY SEOP  
**Priority Data:**

**Title:** (EN) HOLLOW THERMAL INSULATING PLYWOOD, A MOLD AND A MOLDING APPARATUS FOR MANUFACTURING THE HOLLOW THERMAL INSULATING PLYWOOD AND A MANUFACTURING METHOD THEREOF, FOR REDUCING WEIGHT AND INCREASING RIGIDITY



**Abstract:** (EN)

PURPOSE: A hollow thermal insulating plywood, a mold and a molding apparatus for manufacturing the hollow thermal insulating plywood, and a manufacturing method thereof are provided to decrease the weight of the plywood by forming holes, and to use the plywood as interior or exterior panels of a building by increasing rigidity, thermal insulation effect and fire resistance.

CONSTITUTION: A hollow thermal insulating plywood(1) is made of thermal insulation material, and composed of two thermal insulation panels(2). Plural grooves are formed in the thermal insulation panel, and holes(3) are formed by facing the grooves of the thermal insulation panels in contacting the thermal insulation panels to each other. The hollow thermal insulating plywood is manufactured by contacting and fixing the thermal insulation panels. A mold for manufacturing the hollow thermal insulating plywood includes an upper mold with plural groove forming projections, a forming space containing thermal insulation powder, and a lower mold pressed by the upper mold to form the thermal insulation panel.


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# Record (PATENTSCOPE)


National Biblio. Data	
Permanent Link/ Bookmark: 	
<b>Application Number:</b> 1020050022082 <b>Application Date:</b> 17.03.2005	
<b>Publication Number:</b> 1020060100522 <b>Publication Date:</b> 21.09.2006	
<b>Publication Kind :</b> AKOREAN PATENT ABSTRACTS	
<b>IPC:</b>	E04B 1/80 
<b>Applicants:</b>	DOOWON C&C CO., LTD.
<b>Inventors:</b>	LEE, KUY SEOP
<b>Priority Data:</b>	
<b>Title:</b>	(EN) HOLLOW THERMAL INSULATING PLYWOOD, A MOLD AND A MOLDING APPARATUS FOR MANUFACTURING THE HOLLOW THERMAL INSULATING PLYWOOD AND A MANUFACTURING METHOD THEREOF, FOR REDUCING WEIGHT AND INCREASING RIGIDITY
<b>Abstract:</b>	(EN)  PURPOSE: A hollow thermal insulating plywood, a mold and a molding apparatus for manufacturing the hollow thermal insulating plywood, and a manufacturing method thereof are provided to decrease the weight of the plywood by forming holes, and to use the plywood as interior or exterior panels of a building by increasing rigidity, thermal insulation effect and fire resistance.  CONSTITUTION: A hollow thermal insulating plywood(1) is made of thermal insulation material, and composed of two thermal insulation panels(2). Plural grooves are formed in the thermal insulation panel, and holes(3) are formed by facing the grooves of the thermal insulation panels in contacting the thermal insulation panels to each other. The hollow thermal insulating plywood is manufactured by contacting and fixing the thermal insulation panels. A mold for manufacturing the hollow thermal insulating plywood includes an upper mold with plural groove forming projections, a forming space containing thermal insulation powder, and a lower mold pressed by the upper mold to form the thermal insulation panel.  © KIPO 2006

# Record (PATENTSCOPE)

National Biblio. Data

Permanent Link/ Bookmark: 

**Application Number:** 1020050022082 **Application Date:** 17.03.2005  
**Publication Number:** 1020060100522 **Publication Date:** 21.09.2006  
**Publication Kind :** AKOREAN PATENT ABSTRACTS

**IPC:** E04B 1/80 

**Applicants:** DOOWON C&S

**Inventors:** LEE, KUY SE

**Priority Data:**

**Title:** (EN) HOLLOW  
HOLLOW THE  
INCREASING

**Abstract:** (EN)  
PURPOSE: A  
plywood, and  
plywood as in


E	FIXED CONSTRUCTIONS
04	BUILDING
B	GENERAL BUILDING CONSTRUCTIONS; WALLS, e.g. PARTITIONS; ROOFS; FLOORS; CEILINGS; INSULATION OR OTHER PROTECTION OF BUILDINGS
1	Constructions in general; Structures which are not restricted either to walls, e.g. partitions, or floors or ceilings or roofs
62	Insulation or other protection; Elements or use of specified material therefor
74	Heat, sound or noise insulation, absorption, or reflection; Other building methods affording favourable thermal or acoustical conditions, e.g. accumulating of heat within walls
76	specifically with respect to heat only
78	Heat insulating elements
80	slab-shaped

CONSTITUTION: A hollow thermal insulating plywood(1) is made of thermal insulation material, and composed of two thermal insulation panels(2). Plural grooves are formed in the thermal insulation panel, and holes(3) are formed by facing the grooves of the thermal insulation panels in contacting the thermal insulation panels to each other. The hollow thermal insulating plywood is manufactured by contacting and fixing the thermal insulation panels. A mold for manufacturing the hollow thermal insulating plywood includes an upper mold with plural groove forming projections, a forming space containing thermal insulation powder, and a lower mold pressed by the upper mold to form the thermal insulation panel.


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# Record (PATENTSCOPE)

National Biblio. Data

Permanent Link/ Bookmark: 

**Application Number:** 1020050042193 **Application Date:** 19.05.2005  
**Publication Number:** 1020050054901 **Publication Date:** 10.06.2005  
**Publication Kind :** A KOREAN PATENT ABSTRACTS

**IPC:** E04B 1/78 

**Applicants:** KIM, GI TAE  
**Inventors:** KIM, GI TAE  
**Priority Data:**

**Title:** (EN) EXTERNAL HEAT INSULATION CONSTRUCTION METHOD USING A THERMAL INSULATION BOARD FORMED BY COMBINING AN EXTERIOR MATERIAL WITH A THERMAL INSULATION MATERIAL

**Abstract:** (EN)


PURPOSE: An external heat insulation construction method using a thermal insulation board is provided to efficiently insulate heat in a building, and to improve the appearance and the durability by fastening the thermal insulation board to a structure firmly with an L-shaped supporting piece and an adhesive and restricting deformation or dewing.

CONSTITUTION: A structure is cleaned in an external heat insulation construction method(S1). Plural L-shaped supporting pieces are fastened to the structure, and a thermal insulation board is attached and fixed to the structure(S2). A joint remaining bar is installed and mounted to an upper part of the thermal insulation board attached to the structure, and the L-shaped supporting piece is contacted and fastened to the upper part of the joint remaining bar and the structure(S3). The thermal insulation board is mounted to the structure repeatedly(S4), and a coating layer is formed in the front of the thermal insulation board mounted to the structure(S5). A joint is formed by charging caulking materials between the thermal insulation boards(S6).


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# Record (PATENTSCOPE)

National Biblio. Data

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**Application Number:** 1020050042193 **Application Date:** 19.05.2005  
**Publication Number:** 1020050054901 **Publication Date:** 10.06.2005  
**Publication Kind :** A KOREAN PATENT ABSTRACTS

**IPC:** E04B 1/78 

**Applicants:** KIM, GI TAE  
**Inventors:** KIM, GI TAE  
**Priority Data:**

**Title:** (EN) EXTERNAL HEAT INSULATION CONSTRUCTION METHOD USING A THERMAL INSULATION BOARD FORMED BY COMBINING AN EXTERIOR MATERIAL WITH A THERMAL INSULATION MATERIAL

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National Biblio. Data

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**Application Number:** 1020050042193 **Application Date:** 19.05.2005  
**Publication Number:** 1020050054901 **Publication Date:** 10.06.2005  
**Publication Kind :** A KOREAN PATENT ABSTRACTS

**IPC:** E04B 1/78 

**Applicants:** KIM, GI TAE  
**Inventors:** KIM, GI TAE  
**Priority Data:**  
**Title:** (EN) EXTERNA COMBINING AI  
**Abstract:** (EN)  
PURPOSE: An in a building, an L-shaped support

<b>E</b>	FIXED CONSTRUCTIONS
<b>04</b>	BUILDING
<b>B</b>	GENERAL BUILDING CONSTRUCTIONS; WALLS, e.g. PARTITIONS; ROOFS; FLOORS; CEILINGS; INSULATION OR OTHER PROTECTION OF BUILDINGS
<b>1</b>	Constructions in general; Structures which are not restricted either to walls, e.g. partitions, or floors or ceilings or roofs
<b>62</b>	Insulation or other protection; Elements or use of specified material therefor
<b>74</b>	Heat, sound or noise insulation, absorption, or reflection; Other building methods affording favourable thermal or acoustical conditions, e.g. accumulating of heat within walls
<b>76</b>	specifically with respect to heat only
<b>78</b>	Heat insulating elements

CONSTITUTION: A structure is cleaned in an external heat insulation construction method(S1). Plural L-shaped supporting pieces are fastened to the structure, and a thermal insulation board is attached and fixed to the structure(S2). A joint remaining bar is installed and mounted to an upper part of the thermal insulation board attached to the structure, and the L-shaped supporting piece is contacted and fastened to the upper part of the joint remaining bar and the structure(S3). The thermal insulation board is mounted to the structure repeatedly(S4), and a coating layer is formed in the front of the thermal insulation board mounted to the structure(S5). A joint is formed by charging caulking materials between the thermal insulation boards(S6).

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Analysis »

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

No	Ctr	Title	PubDate	Int. Class	Appl.No	Applicant	Inventor
1.	WO	WO/2013/113703 - HEATING DEVICE, USE OF SUCH A HEATING DEVICE AND PRODUCTION METHOD	08.08.2013	H05B 3/14	PCT/EP2013/051695	E.G.O. ELEKTRO-GERÄTEBAU GMBH	HORSMANN, Karl, Heinz

A heating device for an electrical **household** appliance has a large-area heating element or substantially comprises such a large-area heating element, wherein the heating element has electrical connections. The heating element comprises a material mixture of vermiculite and electrically conductive components such as metal particles, carbon black particles or graphite particles, and binders. In this case, the electrically conductive components are distributed substantially over the entire heating element, advantageously uniformly. Thus, a heating device is provided which can be used simultaneously as **thermal insulation** and can form, for example, an inner rear wall of a refrigerator for a defrost function.

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Results 1-10 of 13,109 for Criteria:FP:(((thermal OR heat OR temperature) NEAR (insulat\*)) AND (house\* OR housing\* OR building\*))  
 Office(s):all Language:EN Stemming: true

1 2 3 4 5 6 7 8 9 10  Page: 1 / 1311

Refine Search

**Analysis** »

Sort by:  View  List Length

No	Ctr	Title	PubDate	Int. Class	Appl. No	Applicant	Inventor
1.	WO	WO/2013/113703 - HEATING DEVICE, USE OF SUCH A HEATING DEVICE AND PRODUCTION METHOD	08.08.2013	H05B 3/14	PCT/EP2013/051695	E.G.O. ELEKTRO-GERÄTEBAU GMBH	HORSMANN, Karl, Heinz

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# Results analysis (PATENTSCOPE)

Analysis

Options  Table  Graph Options  bar  pie

Countries		Main IPC		Main Applicant		Main Inventor		Pub Date	
Name ↕	No ↕	Name ↕	No ↕	Name ↕	No ↕	Name	No ↕	Date ↕	No ↕
Japan	5426	E04B	3495	SEKISUI HOUSE LTD	181	TAN SEIKICHI	43	2003	736
PCT	1868	E04C	958	MATSUSHITA ELECTRIC IND CO LTD	171	KOTANI MIKI	35	2004	742
United States	1847	E04F	849	SANYO ELECTRIC CO LTD	128	WADA HIROTAKA	33	2005	739
Russian Federation	1542	F25D	842	SEKISUI CHEM CO LTD	109	IMANISHI KOJI	30	2006	814
European Patent Office	1272	C04B	693	DAIWA HOUSE IND CO LTD	109	MATSUMOTO SETSUYA	18	2007	836
Republic of Korea	1036	B32B	574	BSH BOSCH UND SIEMENS HAUSGERÄTE GMBH	92	Энтони Коста (RU)	17	2008	736
Mexico	56	E04D	526	KANEGAFUCHI CHEM IND CO LTD	83	ISHIKAWA TAKASHI	15	2009	690
Spain	19	E06B	508	BSH BOSCH SIEMENS HAUSGERÄTE	76	TAZAKI KOJIRO	15	2010	720
South Africa	17	H01L	455	PANASONIC CORP	75	YOSHIDA SHIGEO	15	2011	627
Russian Federation (USSR data)	16	F16L	413	IG TECH RES INC	62	YOSHIDA SHIGEO	15	2012	478
Israel	5					ELIMAKI	14	2013	218
ARIPCO	2								

# Results analysis (PATENTSCOPE)

Analysis

Options  Table  Graph Options  bar  pie

Countries		Main IPC		Main Applicant		Main Inventor		Pub Date	
Name	No	Name	No	Name	No	Name	No	Date	No
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Russian Federation (USSR data)	16	F16L	413	IG TECH RES INC	62	ELIMAKI	14	2012	478
Israel	5							2013	218
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# Classification publication (IPC)

**WIPO** IP SERVICES International Patent Classification (IPC) Official Publication

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View mode:  path,  full,  hierarchic

Standardized sequence,  Deleted entries,  Subclass indexes,  Guidance Headings,  Notes

Search:

Assistance:

Scheme RCL Compilation Catchwords Corrigendum

<a href="#">A</a>	<b>SECTION A — HUMAN NECESSITIES</b>
<a href="#">B</a>	<b>SECTION B — PERFORMING OPERATIONS; TRANSPORTING</b>
<a href="#">C</a>	<b>SECTION C — CHEMISTRY; METALLURGY</b>
<a href="#">D</a>	<b>SECTION D — TEXTILES; PAPER</b>
<a href="#">E</a>	<b>SECTION E — FIXED CONSTRUCTIONS</b>
<a href="#">F</a>	<b>SECTION F — MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING</b>
<a href="#">G</a>	<b>SECTION G — PHYSICS</b>
<a href="#">H</a>	<b>SECTION H — ELECTRICITY</b>

# Classification publication (IPC)

**WIPO** IP SERVICES International Patent Classification (IPC) Official Publication

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Version: 2013.01

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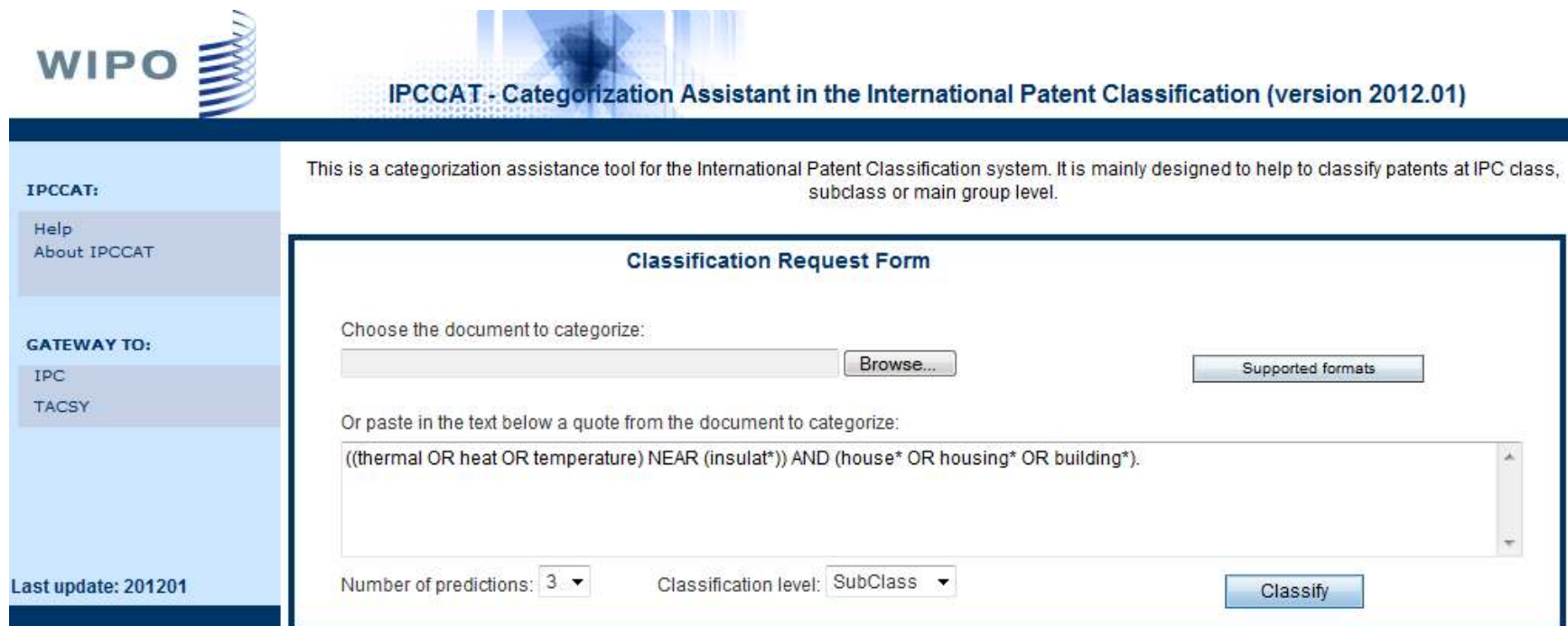
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 Deleted entries  
 Subclass indexes  
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 Notes

Search: [Terms button], [Cross-references button]

**Assistance**  
[Text categorization (IPCCAT) button]

Scheme	RCL	Compilation	Catchwords	Corrigendum	
A					<b>SECTION A — HUMAN NECESSITIES</b>
B					<b>SECTION B — PERFORMING OPERATIONS; TRANSPORTING</b>
C					<b>SECTION C — CHEMISTRY; METALLURGY</b>
D					<b>SECTION D — TEXTILES; PAPER</b>
E					<b>SECTION E — FIXED CONSTRUCTIONS</b>
F					<b>SECTION F — MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING</b>
G					<b>SECTION G — PHYSICS</b>
H					<b>SECTION H — ELECTRICITY</b>

# Statistical analysis (IPCCAT)



**WIPO**

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# Statistical analysis (IPCCAT)



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→ Remember to put a period (full stop) at the end of short queries!



# Statistical analysis (IPCCAT)



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**IPCCAT - Categorization Assistant in the International Patent Classification (version 2012.01)**

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# Statistical analysis (IPCCAT)



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Number of predictions:  Classification level:

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## Suggested IPC Categories

Confidence <small>↑↓</small>	IPC <small>↑↓</small>	Description	Refine
★★★★★	E04B	💡	▶▶
★★★★	G08B	💡	▶▶
★★★★	A63H	💡	▶▶

# Results (IPCCAT)

## Suggested IPC Categories

Confidence <small>↑↓</small>	IPC <small>↑↓</small>	Description	Refine
	E04B		▶▶
	G08B		▶▶
	A63H		▶▶

# Results (IPCCAT)

## Suggested IPC Categories

Confidence <small>↑↓</small>	IPC <small>↑↓</small>	Description	Refine
★★★★★	E04B	💡	▶▶
★★★★	G08B	💡	▶▶
★★★★	A63H	💡	▶▶

# Results (IPCCAT)

## Suggested IPC Categories






Confidence <small>↑↓</small>	IPC <small>↑↓</small>	Description	Refine
★★★★★	E04B	💡	◀◀
★★★★★	E04B 1/00	💡	
★	E04B 2/00	💡	
—	E04B 7/00	💡	
★★★★★	G08B	💡	▶▶
★★★★★	A63H	💡	▶▶

# Results (IPCCAT)

## Suggested IPC Categories

Confidence <small>↑↓</small>	IPC <small>↑↓</small>	Description	Refine
★★★★★	E04B	💡	◀◀
★★★★★	E04B 1/00	💡	
★	E04B 2/00	💡	
—	E04B 7/00	💡	
★★★★★	G08B	💡	▶▶
★★★★★	A63H	💡	▶▶

# Classification: Scheme (IPC)

Scheme	RCL	Compilation	Catchwords
 E04B 1/00			Constructions in general; Structures which are not restricted either to walls, e.g. partitions, or floors or ceilings or roofs (scaffolds, shutterings E04G; structures specially adapted for buildings for special purposes, general layout of buildings, e.g. modular co-ordination, E04H; the particular parts of buildings, <u>see</u> the relevant groups for those parts)
 E04B 1/02			• Structures consisting primarily of load-supporting, block-shaped or slab-shaped elements (E04B 1/32-E04B 1/36 take precedence)
 E04B 1/04			• • the elements consisting of concrete, e.g. reinforced concrete, or other stone-like material
 E04B 1/06			• • • the elements being prestressed
 E04B 1/08			• • the elements consisting of metal



# Classification publication (IPC)

**WIPO** IP SERVICES International Patent Classification (IPC) Official Publication

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IPC Home Page - Help

Version: 2013.01

Current symbol:

Go to:

Language:  English,  French,  English/French

View mode:  path,  full,  hierarchic

Standardized sequence,  Deleted entries,  Subclass indexes,  Guidance Headings,  Notes

Search:

Assistance:

Scheme RCL Compilation Catchwords Corrigendum

<a href="#">A</a>	<b>SECTION A — HUMAN NECESSITIES</b>
<a href="#">B</a>	<b>SECTION B — PERFORMING OPERATIONS; TRANSPORTING</b>
<a href="#">C</a>	<b>SECTION C — CHEMISTRY; METALLURGY</b>
<a href="#">D</a>	<b>SECTION D — TEXTILES; PAPER</b>
<a href="#">E</a>	<b>SECTION E — FIXED CONSTRUCTIONS</b>
<a href="#">F</a>	<b>SECTION F — MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING</b>
<a href="#">G</a>	<b>SECTION G — PHYSICS</b>
<a href="#">H</a>	<b>SECTION H — ELECTRICITY</b>

# Classification publication (IPC)

**WIPO** IP SERVICES International Patent Classification (IPC) Official Publication

WORLD INTELLECTUAL PROPERTY ORGANIZATION

IPC Home Page - Help

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Language:  English,  French,  English/French

View mode:  path,  full,  hierarchic

Standardized sequence,  Deleted entries,  Subclass indexes,  Guidance Headings,  Notes

Search:

Assistance:

Scheme RCL Compilation Catchwords Corrigendum

A	SECTION A — HUMAN NECESSITIES
B	SECTION B — PERFORMING OPERATIONS; TRANSPORTING
C	SECTION C — CHEMISTRY; METALLURGY
D	SECTION D — TEXTILES; PAPER
E	SECTION E — FIXED CONSTRUCTIONS
F	SECTION F — MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING
G	SECTION G — PHYSICS
H	SECTION H — ELECTRICITY

# Classification: Terms (IPC)

Version 2013.01 - English

Word(s)

Limit to

Exclude

Scheme  Path  Definition  Catchwords

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# Classification: Terms (IPC)

Version 2013.01 - English

Word(s)

Limit to

Exclude

Scheme  Path  Definition  Catchwords

→ "Path" includes all definitions along the path to a given symbol

# Classification: Terms (IPC)

Version 2013.01 - English

Word(s)

Limit to

Exclude

Scheme  Path  Definition  Catchwords

<div style="height: 200px;"></div>	<div style="height: 200px;"></div>	<div style="height: 200px;"></div>
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# Classification: Terms (IPC)

Version 2013.01 - English

Word(s)

Limit to

Exclude

<input checked="" type="checkbox"/> Scheme	<input checked="" type="checkbox"/> Path	<input type="checkbox"/> Definition	<input checked="" type="checkbox"/> Catchwords
<ul style="list-style-type: none"><li>E04B 1/74</li><li>E04B 1/76</li><li>E04B 1/78</li><li>E04B 1/88</li><li>F16B</li><li>F16J</li><li>F16J 15/00</li><li>F16L</li><li>F16L 3/00</li><li>F16L 25/02</li><li>F16L 58/02</li><li>F16L 59/00</li><li>F16L 59/02</li></ul>			<p>HEAT INSULATION</p>
24			2

Display results

# Classification: Terms (IPC)

Version 2013.01 - English

Word(s)

Limit to

Exclude

<input checked="" type="checkbox"/> Scheme	<input checked="" type="checkbox"/> Path	<input type="checkbox"/> Definition	<input checked="" type="checkbox"/> Catchwords
<b>E04B 1/74</b>			HEAT INSULATION
E04B 1/76			
E04B 1/78			
E04B 1/88			
F16B			
F16J			
F16J 15/00			
F16L			
F16L 3/00			
F16L 25/02			
F16L 58/02			
F16L 59/00			
F16L 59/02			
24			2

Display results

# Classification: Scheme (IPC)

Scheme	RCL	Compilation	Catchwords	Corrigendum
E		<b>SECTION E — FIXED CONSTRUCTIONS</b>		
E04		<b>BUILDING</b>		
D PDF E04B		<b>GENERAL BUILDING CONSTRUCTIONS; WALLS, e.g. PARTITIONS; ROOFS; FLOORS; CEILINGS; INSULATION OR OTHER PROTECTION OF BUILDINGS</b> (border constructions of openings in walls, floors, or ceilings E06B 1/00)		
		<p>Note(s)</p> <ol style="list-style-type: none"> <li>This subclass <u>covers</u> working methods used in constructing new <b>buildings</b> and analogous working methods on existing <b>buildings</b>. Other working methods on existing <b>buildings</b>, except those for <b>insulating</b>, are classified in group E04G 23/00. [5]</li> <li>In this subclass, the following term is used with the meaning indicated: <ul style="list-style-type: none"> <li>"ceiling" includes all the finishing <b>material</b> concealing the underside of the load-carrying ceiling structure or roof structure. [4]</li> </ul> </li> </ol>		
E04B 1/00		<b>Constructions in general; Structures which are not restricted either to walls, e.g. partitions, or floors or ceilings or roofs</b> (scaffolds, shutterings E04G; structures specially adapted for <b>buildings</b> for special purposes, general layout of <b>buildings</b> , e.g. modular co-ordination, E04H; the particular parts of <b>buildings</b> , <u>see</u> the relevant groups for those parts)		
E04B 1/62		<b>Insulation</b> or other protection; Elements or <b>use</b> of specified <b>material</b> therefor ( <b>chemical compositions</b> C01-C11; implements for applying <b>insulation</b> or sealings E04F 21/00; <b>buildings</b> to withstand, or to provide protection against, external undesired influences E04H 9/00; sealing pipes in walls or partitions F16L 5/02; shielding against dangerous radiation G21F; constructions of particular parts of <b>buildings</b> , <u>see</u> the relevant groups for those parts)		
E04B 1/74		<b>Heat, sound or noise insulation, absorption, or reflection</b> (forms of, or arrangements in, rooms for influencing or directing sound E04B 1/99); Other <b>building</b> methods affording favourable <b>thermal</b> or acoustical conditions, e.g. accumulating of heat within walls (fire protection E04B 1/94; elements chiefly adapted for structural purposes E04C 1/00-E04C 3/00; chiefly adapted for surface coverings E04F 13/00; as underlayers for floor coverings E04F 15/18; closures for wall or like openings E06B)		
E04B 1/76		... specifically with respect to heat only (heat <b>insulation</b> in general F16L 59/00)		
E04B 1/82		... specifically with respect to sound only (noise damping in ducts or channels E04F 17/00; noise damping in general G10K 11/16)		
E04B 1/88		... <b>insulating</b> elements for both heat and sound		



# Classification: Terms (IPC)

Version 2013.01 - English

Word(s)

Limit to

Exclude

<input checked="" type="checkbox"/> Scheme	<input checked="" type="checkbox"/> Path	<input type="checkbox"/> Definition	<input checked="" type="checkbox"/> Catchwords
E04B 1/74			HEAT
E04B 1/76			INSULATION
E04B 1/78			
E04B 1/88			
F16B			
F16J			
F16J 15/00			
F16L			
F16L 3/00			
F16L 25/02			
F16L 58/02			
F16L 59/00			
F16L 59/02			
24			2

Display results

# Classification: Catchwords (IPC)

Scheme	RCL	Compilation	Catchwords	Corrigendum
<b>INSULATION</b>				
(1) electric <b>INSULATION</b>				
<b>INSULATION</b> of cables <a href="#">H01B</a>				
<b>INSULATION</b> of wire by covering with plastics or substances in a plastic state <a href="#">B29C</a>				
paper for electric <b>INSULATION</b> <a href="#">D21H 27/12</a>				
slotting out <b>INSULATION</b> between commutator segments <a href="#">H01R 43/06</a>				
(2) thermal <a href="#">F16L 59/00</a>				
see also <a href="#">THERMAL</a>				
domestic heat-insulated vessels <a href="#">A47J 41/00</a> , <a href="#">B65D</a>				
<b>INSULATION</b> for roof coverings <a href="#">E04D 13/16</a>				
<b>INSULATION</b> in <a href="#">building</a> wall construction <a href="#">E04B 2/00</a>				
<b>INSULATION</b> in <a href="#">buildings</a> in general <a href="#">E04B 1/62</a>				
<b>INSULATION</b> measures in the flooring of <a href="#">buildings</a> <a href="#">E04F 15/18</a>				
<b>INSULATION</b> of tunnels <a href="#">E02D 29/00</a> , <a href="#">E21D 9/00</a> , <a href="#">E21D 11/00</a>				
<b>INSULATION</b> of windows or doors <a href="#">E06B 3/263</a> , <a href="#">E06B 3/66</a>				
laboratory heat- <b>INSULATION</b> devices <a href="#">B01L 7/04</a>				
(3) <b>INSULATION</b> against sound waves <a href="#">G10K 11/00</a>				
<b>INSULATION</b> of ceilings or floors <a href="#">E04B 5/00</a> , <a href="#">E04F 15/20</a>				
<b>INSULATION</b> in <a href="#">building</a> structures <a href="#">E04B 1/62</a>				
<b>INSULATION</b> of tunnels <a href="#">E21D 11/00</a>				
<b>INSULATION</b> of walls <a href="#">E04B 2/00</a>				
materials for <b>INSULATION</b> <a href="#">C04B</a>				

# Classification: Catchwords (IPC)

Scheme RCL Compilation **Catchwords** Corrigendum

**INSULATION**





(1) electric **INSULATION**  
**INSULATION** of cables H01B  
**INSULATION** of wire by covering with plastics or substances in a plastic state B29C  
paper for electric **INSULATION** D21H 27/12  
slitting out **INSULATION** between commutator segments H01R 43/06

(2) **thermal** F16L 59/00  
see also **THERMAL**





domestic heat-**insulated** vessels A47J 41/00, B65D  
**INSULATION** for roof coverings E04D 13/16  
**INSULATION** in **building** wall construction E04B 2/00  
**INSULATION** in **buildings** in general E04B 1/62  
**INSULATION** measures in the flooring of **buildings** E04F 15/18  
**INSULATION** of tunnels E02D 29/00, E21D 9/00, E21D 11/00  
**INSULATION** of windows or doors E06B 3/263, E06B 3/66  
laboratory heat- **INSULATION** devices B01L 7/04

(3) **INSULATION** against sound waves G10K 11/00  
**INSULATION** of ceilings or floors E04B 5/00, E04F 15/20  
**INSULATION** in **building** structures E04B 1/62  
**INSULATION** of tunnels E21D 11/00  
**INSULATION** of walls E04B 2/00  
materials for **INSULATION** C04B

# Classification: Scheme (IPC)

	<b>F16L 57/00</b>	<b>Protection of pipes or objects of similar shape against external or internal damage or wear</b> (supporting of pipes inside other pipes or sleeves <a href="#">F16L 7/00</a> ; used in connection with end fittings of hoses <a href="#">F16L 35/00</a> ; protection of pipes or pipe fittings against corrosion or incrustation <a href="#">F16L 58/00</a> ; protection thereof during transport <a href="#">B65D</a> , e.g. <a href="#">B65D 59/00</a> )
	<b>F16L 58/00</b>	<b>Protection of pipes or pipe fittings against corrosion or incrustation</b> (supporting of pipes inside other pipes or sleeves <a href="#">F16L 7/00</a> ; compound tubes <a href="#">F16L 9/14</a> ; cleaning pipes or tubes <a href="#">B08B 9/02</a> )
	<b>F16L 59/00</b>	<b>Thermal insulation in general</b> (heat, sound <b>insulation</b> in <b>buildings</b> <a href="#">E04B</a> ; heat <b>insulation</b> of steam <b>engines</b> <a href="#">F01B 31/08</a> ; heat <b>insulation</b> in rotary piston machines or <b>engines</b> <a href="#">F01C 21/06</a> ; heat <b>insulation</b> of pumps <a href="#">F04C 29/04</a> ; <b>thermal insulation</b> of pressure vessels <a href="#">F17C 1/12</a> ; vessels not under pressure, with provision for <b>insulation</b> <a href="#">F17C 3/02</a> )
		<u><a href="#">Indexing scheme associated with groups F16L 55/26-F16L 55/48, relating to uses and applications of pigs or moles.</a></u> [6]
	<b>F16L 101/00</b>	<b>Uses or applications of pigs or moles</b> [6]

# Classification: Scheme (IPC)

	<b>F16L 57/00</b>	<b>Protection of pipes or objects of similar shape against external or internal damage or wear</b> (supporting of pipes inside other pipes or sleeves <a href="#">F16L 7/00</a> ; used in connection with end fittings of hoses <a href="#">F16L 35/00</a> ; protection of pipes or pipe fittings against corrosion or incrustation <a href="#">F16L 58/00</a> ; protection thereof during transport <a href="#">B65D</a> , e.g. <a href="#">B65D 59/00</a> )
	<b>F16L 58/00</b>	<b>Protection of pipes or pipe fittings against corrosion or incrustation</b> (supporting of pipes inside other pipes or sleeves <a href="#">F16L 7/00</a> ; compound tubes <a href="#">F16L 9/14</a> ; cleaning pipes or tubes <a href="#">B08B 9/02</a> )
	<b>F16L 59/00</b>	<b>Thermal insulation in general</b> (heat, sound <b>insulation in buildings E04B</b> ; heat <b>insulation</b> of steam engines <a href="#">F01B 31/08</a> ; heat <b>insulation</b> in rotary piston machines or engines <a href="#">F01C 21/06</a> ; heat <b>insulation</b> of pumps <a href="#">F04C 29/04</a> ; <b>thermal insulation</b> of pressure vessels <a href="#">F17C 1/12</a> ; vessels not under pressure, with provision for <b>insulation F17C 3/02</b> )
		<u>Indexing scheme associated with groups <a href="#">F16L 55/26-F16L 55/48</a>, relating to uses and applications of pigs or moles. [6]</u>
	<b>F16L 101/00</b>	<b>Uses or applications of pigs or moles [6]</b>

# Search (PATENTSCOPE)



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Int. Classification(IPC) ▾ E04B 1/76  Office: All

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Results **1-10** of **6,200** for Criteria: IC:"E04B 1/76" Office(s): all Language: EN Stemming: true 🔗

1
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Page:  / 621

Refine Search

**Analysis** »

Sort by:  View  List Length   Machine translation

No	Ctr	Title	PubDate	Int.Class	Appl.No	Applicant	Inventor
1.	WO	WO/2013/113455 - THERMAL INSULATION MATERIAL WITH IMPROVED FIRE RESISTANCE	08.08.2013	B32B 7/12 <input checked="" type="checkbox"/>	PCT/EP2012/076490	VALSEM INDUSTRIES SAS	DAVIET, Jean-François

A thermal insulation material (10) comprises an inner and outer layers (11, 12) of reflective material with a reflectivity over than 90%. The thermal insulation material (10) further comprises a non-combustible material (15) located between said inner and outer layers (11, 12) and bonded to said inner and outer layers (11, 12) by a polymeric primary bonding agent (16) containing a load of fire-retardant.



# Results (PATENTSCOPE)

Sort by: <input type="button" value="Pub Date Desc"/> View <input type="button" value="All"/> List Length <input type="button" value="10"/> Machine translation							
No	Ctr	Title	PubDate	Int. Class	Appl.No	Applicant	Inventor
1.	WO	<a href="#">WO/2013/113455</a> - THERMAL INSULATION MATERIAL WITH IMPROVED FIRE RESISTANCE	08.08.2013	B32B 7/12	PCT/EP2012/076490	VALSEM INDUSTRIES SAS	DAVIET, Jean-François
<p>A thermal insulation material (10) comprises an inner and outer layers (11, 12) of reflective material with a reflectivity over than 90%. The thermal insulation material (10) further comprises a non-combustible material (15) located between said inner and outer layers (11, 12) and bonded to said inner and outer layers (11, 12) by a polymeric primary bonding agent (16) containing a load of fire-retardant.</p>							
2.	EP	<a href="#">2619377</a> - SELF-SUPPORTING MODULE FOR THE FACADE OF A BUILDING	31.07.2013	E04B 1/76	11797347	PRO ENERGY SYSTEMS S R L	FICCADENTI MARCO
<p>A self-supporting module (1) for the facade (2) of a building provided with its own load-bearing structure (4); the module (1) is provided with: an external finishing assembly (5), which has a shaped structure and is suited to frontally close the module (1); a frame (18), which can be coupled with the load-bearing structure (4) and with further self-supporting modules (1) and functions as support for the external finishing assembly (5), there being defined within the frame (18) a gap (21) designed to enable passage of a flow of air for aerating the external finishing assembly (5); and an insulation packet (6), which is coupled to the frame (3) and, has a plurality of layers (33), which are set in contact with one another and are made of at least one first insulating material, each layer (33) being set staggered with respect to the adjacent layers (33) in a first direction.</p>							
3.	EP	<a href="#">2620567</a> - Composite heat insulation system with a fire barrier, heat insulation element and use of the heat insulation element as a fire barrier	31.07.2013	E04B 1/76	13152566	STO AG	HITZLER MARTIN
<p>Die Erfindung betrifft ein Wärmedämmverbundsystem mit einer auf einer Außenseite einer Gebäudeaußenwand angebrachten ein- oder mehrlagigen Wärmedämmschicht und einer hierauf aufgebrachten ein- oder mehrlagigen Putzschicht, wobei die Wärmedämmschicht wenigstens eine Wärmedämmplatte aus einem Hartschaum, insbesondere aus einem Polystyrol-Hartschaum, sowie wenigstens ein platten- oder profilförmiges Wärmedämmelement zur Ausbildung einer Brandbarriere umfasst. Erfindungsgemäß umfasst das die Brandbarriere ausbildende, platten- oder profilförmige Wärmedämmelement einen Wärmedämmstoff, welcher Aerogel-Partikel und wenigstens ein wasserbasiertes organisches und/oder anorganisches Bindemittel enthält und eine Wärmeleitfähigkeit <math>\lambda_{\text{eff}}</math> 0,028 W/(mK), vorzugsweise <math>\lambda_{\text{eff}}</math> 0,025 W/(mK), weiterhin vorzugsweise <math>\lambda_{\text{eff}}</math> 0,022 W/(mK), besitzt. Ferner betrifft die Erfindung ein als Brandbarriere in einem Wärmedämmverbundsystem einsetzbares, platten- oder profilförmiges Wärmedämmelement sowie die Verwendung eines solchen platten- oder profilförmigen Wärmedämmelementes als Brandbarriere.</p>							



# Review

- Review individual documents
- Analyze document sets
- Refer to patent classification publication
  - Scheme
  - Catchwords

# Thank you for your attention!

Any questions?

For more information, please contact:

[tisc@wipo.int](mailto:tisc@wipo.int)