

UNLOCKING THE POWER OF ESPACENET

ANDREE LAHAYE | PATENT KNOWLEDGE DIRECTORATE | 4 DECEMBER 2024

CONTENT

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2. Full EPO patent collection search
3. Search query visibility and refinement
4. Simultaneous result list and document detail's view
5. Access to the AI-based CPC Text Categoriser
6. Conclusion

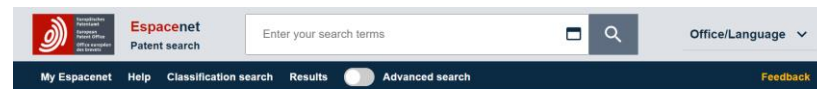
1. INTRODUCTION



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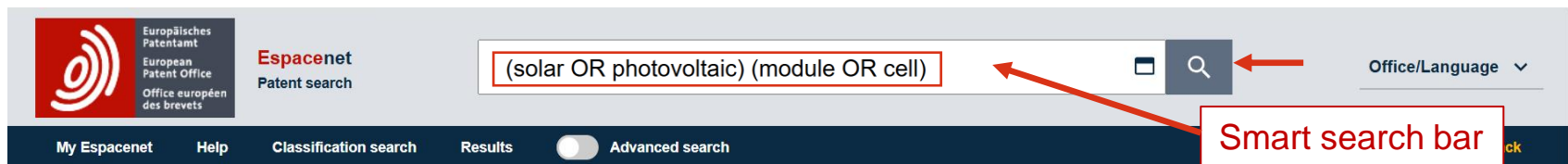
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(solar OR photovoltaic) (module OR cell)

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1 006 680 results found

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☐ 1. **SOLAR MODULE**
US2023223486A1 • 2023-07-13 • ZHEJIANG JINKO SO...
Earliest priority: 2022-01-13 • Earliest publication: 2022-...
...The present disclosure discloses a solar module, including solar cells, each solar cell includes a front surface and a rear surface arranged opposite to each other. The solar cell includes a

☐ 2. **PHOTOVOLTAIC SOLAR MODULE**
CA3205662A1 • 2022-07-28 • MORGAN SOLAR INC
Earliest priority: 2021-01-21 • Earliest publication: 2022-...
A photovoltaic solar module includes: an outer glass layer

3. SEARCH QUERY VISIBLE & REFINABLE AT ANY TIME



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Espacenet
Patent search

electric vehicle battery

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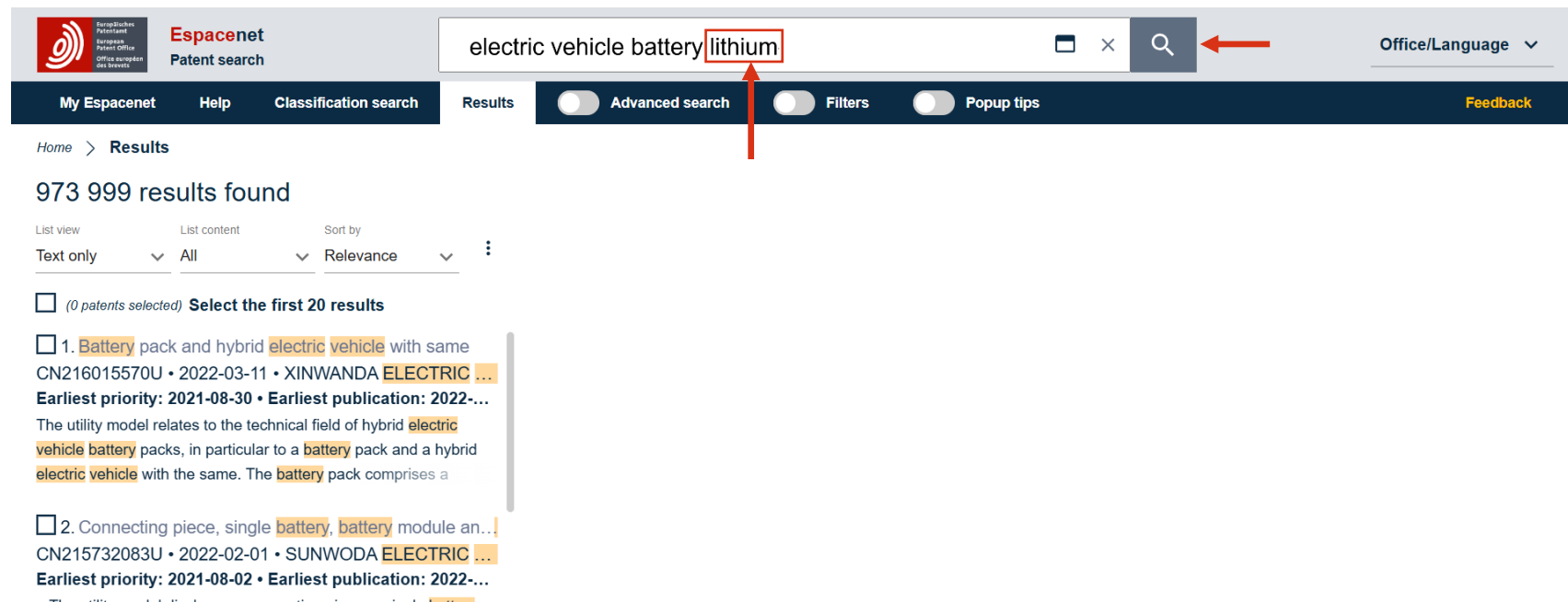
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☐ 1. Battery pack and hybrid electric vehicle with same
CN216015570U • 2022-03-11 • XINWANDA ELECTRIC ...
Earliest priority: 2021-08-30 • Earliest publication: 2022-...
The utility model relates to the technical field of hybrid electric
vehicle battery packs, in particular to a battery pack and a hybrid
electric vehicle with the same. The battery pack comprises a


☐ 2. Connecting piece, single battery, battery module an...
CN215732083U • 2022-02-01 • SUNWODA ELECTRIC ...
Earliest priority: 2021-08-02 • Earliest publication: 2022-...

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Espacenet
Patent search

electric vehicle battery **lithium** 

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CN216015570U • 2022-03-11 • XINWANDA ELECTRIC ...
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The utility model relates to the technical field of hybrid electric
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CN215732083U • 2022-02-01 • SUNWODA ELECTRIC ...
Earliest priority: 2021-08-02 • Earliest publication: 2022-...

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electric vehicle battery lithium

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☐ 1. Hub type lithium battery structure of lithium battery ...
CN203921104U • 2014-11-05 • SUZHOU LONGYUE LIT...
Earliest priority: 2014-05-26 • Earliest publication: 2014-1...
...The utility model discloses a hub type lithium battery structure of
a lithium battery electric bicycle. The hub type lithium... honeycomb
support. A lithium battery is ingeniously placed in the hub, through


☐ 2. Lithium electric vehicle management platform base...
CN215182118U • 2021-12-14 • SUZHOU LONGYUE LI...
Earliest priority: 2021-06-28 • Earliest publication: 2021-...

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(ctxt=electric ctxt=vehicle) ((ctxt=battery ctxt=lithium) OR H01M





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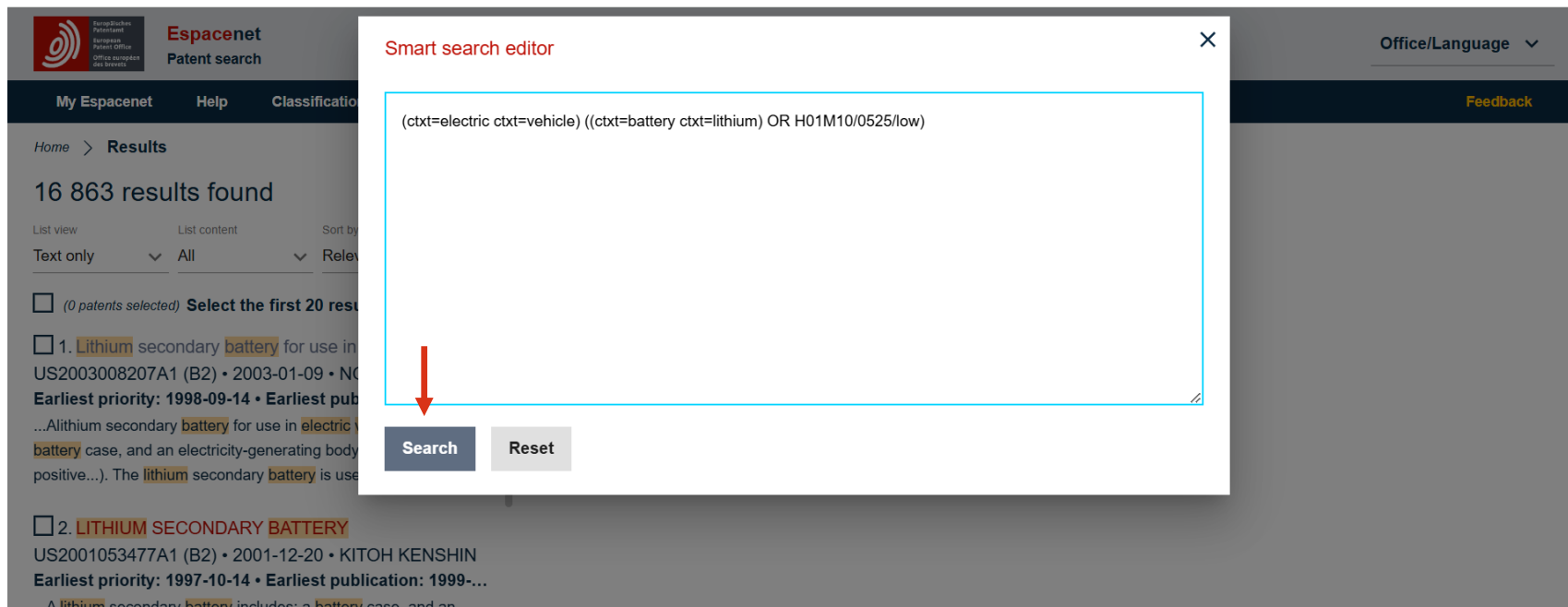
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☐ 1. **Lithium** secondary **battery** for use in **electric vehicle**
 US2003008207A1 (B2) • 2003-01-09 • NGK INSULATO...
Earliest priority: 1998-09-14 • Earliest publication: 2000-...
 ...Alithium secondary **battery** for use in **electric vehicle**, includes: a **battery** case, and an electricity-generating body including a positive...). The **lithium** secondary **battery** is used in an **electric**

☐ 2. **LITHIUM SECONDARY BATTERY**
 US2001053477A1 (B2) • 2001-12-20 • KITO H KENSHIN
Earliest priority: 1997-10-14 • Earliest publication: 1999-...
 A **lithium** secondary **battery** includes: a **battery** case, and an

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(cctx=electric cctx=vehicle) ((cctx=battery cctx=lithium) OR H01M10/0525/low)

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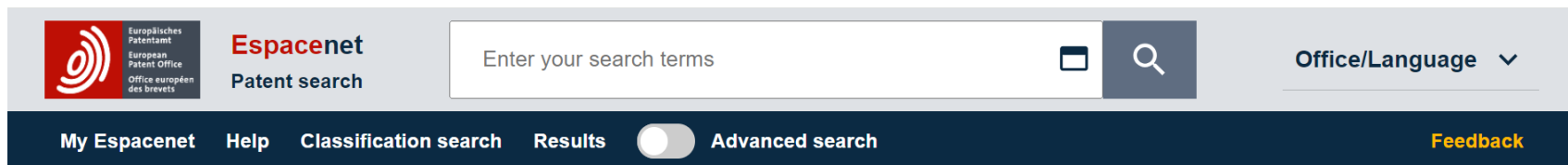
Text only [v] All [v] Relevancy [v]

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☐ 1. **Lithium** secondary **battery** for use in
US2003008207A1 (B2) • 2003-01-09 • NO
Earliest priority: 1998-09-14 • Earliest publication: 2000-01-06
...Alithium secondary **battery** for use in **electric** **battery** case, and an electricity-generating body
positive...). The **lithium** secondary **battery** is use

☐ 2. **LITHIUM SECONDARY BATTERY**
US2001053477A1 (B2) • 2001-12-20 • KITO H KENSHIN
Earliest priority: 1997-10-14 • Earliest publication: 1999-...
A **lithium** secondary **battery** includes: a battery case, and an


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Application number ▾ any ▾ -- Group
 X

Priority number ▾ any ▾ -- Group
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(cpc="C02F1/445" AND cpc="C02F2103/08" AND (ftxt="potab*" OR ftxt="drink*")) OR (cpc="B01D61/002/low" AND (cbxt="seawater" OR cbxt="seawater"))

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Query language: en de fr

OR + Field

AND + Field X

CPC =

C02F1/445 X

CPC =

C02F2103/08 X

OR + Field X

All text fields =

potab* X

All text fields =

drink* X

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249 results found

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☐ 1. Apparatus for the production of **potable** liquid fr...
 EP0121099A2 (A3,B1) • 1984-10-10 • STACHE KNUT
 Earliest priority: 1983-03-03 • Earliest publication: 1984-10-10
 1. Apparatus for producing **potable** liquid from **sea water**, polluted water or the like by osmosis with a container which contains a **drinkable**, osmotically active substance, and the outer wall of

☐ 2. Apparatus for transforming **sea water**, brackish ...
 US4879030A • 1989-11-07 • DD DYNAMIC DEVICE...
 Earliest priority: 1978-11-25 • Earliest publication: 1980-06-11
 ... formed with a semipermeable membrane for passing through by osmosis pure water components out of **sea water**. The semipermeable membrane...

☐ 3. **PROCESS FOR MANUFACTURING POTABL...**
 US2014319056A1 • 2014-10-30 • JFE ENG CORP [...]
 Earliest priority: 2011-10-31 • Earliest publication: 2013-05-10
 ... It is to provide a process for manufacturing **potable** water from a liquid to be treated, such as **seawater** by... and apparatus are a process for manufacturing **potable** water which comprises, a

☐ 4. **SYSTEMS AND METHODS FOR FORWARD ...**
 US2010155329A1 (B2) • 2010-06-24 • QUANTUMS...

☆ EP0121099A2 Apparatus for the production of **potable** liquid from **sea water**, polluted water and the like.

Available in Patent Translate

Bibliographic data Description Claims Drawings Original document Citations Legal events Patent family

Register Global Dossier

Applicants STACHE KNUT +

Inventors STACHE KNUT +

Classifications

IPC B01D61/00; B01D63/00; B01D69/00; C02F1/00; C02F1/44; (IPC1-7): B01D13/00; C02F1/44;

CPC B01D61/0022 (EP,US); B01D63/00 (EP); B01D69/00 (EP); C02F1/002 (EP); C02F1/445 (EP); C02F1/42 (EP); C02F2103/08 (EP);

Priorities DE8306031U-1983-03-03

Application EP84102107A-1984-02-29

Publication EP0121099A2-1984-10-10

Published as EP0121099A2; EP0121099A3; EP0121099B1

DE EN FR

Apparatus for the production of **potable** liquid from **sea water**, polluted water and the like.

Front-page drawing from EP0121099A2

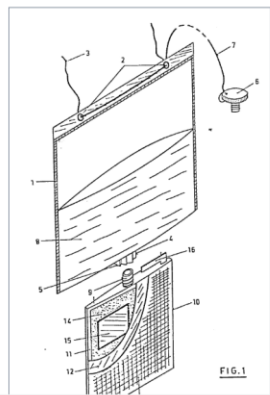



FIG. 1

4. SIMULTANEOUS VIEW OF RESULT LIST AND DOCUMENT DETAILS



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☐ 1. **BIODEGRADABLE PACKAGING** AND METHOD FOR MANUFACTURING
EP4434739A1 • 2024-09-25 • ALL4LABELS GRAFICA ...
Earliest priority: 2021-11-18 • Earliest publication: 2023-0...
...The present invention refers to a **biodegradable**, recyclable, compostable, sealable and thermoformed **packaging** to be used in the **packaging** of... problem: For that purpose, a **biodegradable**

☐ 2. **BIODEGRADABLE FILM FOR CIGARETTE PACK...**
US2024... & G CORP [KR]
Earliest... publication: 2023-...
...Provide... a **biodegradable** film for cigarette **packaging**, the film including a first film layer applied such that one surface..., and a second film layer positioned between the first film layer and the

☆ **EP4434739A1** **BIODEGRADABLE PACKAGING** AND METHOD FOR MANUFACTURING
SAME

Bibliographic data Description Claims Drawings Original document Citations Legal events Patent family

Register ↗ **Global Dossier** ↗

Applicants ALL4LABELS GRAFICA DO BRASIL LTDA [BR]; TECNOVEG IND E COMERCIO LTDA [BR] +

Inventors NEVES FERRI GABRIELA [BR]; DONIZETI CURCIO LUCIANO [BR] +

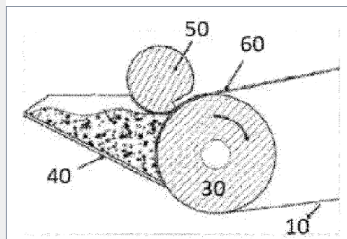
Classifications

IPC **B32B27/10; B32B27/40; B65D65/40; B65D81/34;**

CPC **B32B1/00 (EP); Y02W90/10 (EP)**

Priorities BR102021023134A-2021-11-18; BR102022010575A-2022-05-30


Front-page drawing from EP4434739A1



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☒ **1. BIODEGRADABLE PACKAGING AND METHOD FOR MANUFACTURING**
EP4434739A1 • 2024-09-25 • ALL4LABELS GRAFICA ...
Earliest priority: 2021-11-18 • Earliest publication: 2023-0...
...The present invention refers to a **biodegradable**, recyclable, compostable, sealable and thermoformed **packaging** to be used in the **packaging** of... problem: For that purpose, a **biodegradable**

☐ **2. BIODEGRADABLE FILM FOR CIGARETTE PACK...**
US2024286812A1 • 2024-08-29 • KT & G CORP [KR]
Earliest priority: 2021-12-16 • Earliest publication: 2023-...
...Provided is a **biodegradable** film for cigarette **packaging**, the film including a first film layer applied such that one surface..., and a second film layer positioned between the first film layer and the

☆ **EP4434739A1** **BIODEGRADABLE PACKAGING AND METHOD FOR MANUFACTURING**
SAME

Bibliographic data **Description** **Claims** **Drawings** **Original document** **Citations** **Legal events** **Patent family**

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Applicants ALL4LABELS GRAFICA DO BRASIL LTDA [BR]; TECNOVEG IND E COMERCIO LTDA [BR] +

Inventors NEVES FERRI GABRIELA [BR]; DONIZETI CURCIO LUCIANO [BR] +

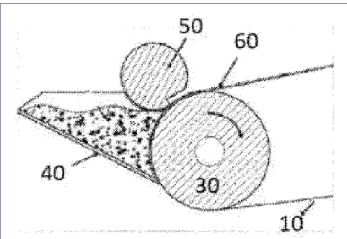
Classifications

IPC **B32B27/10**; **B32B27/40**; **B65D65/40**; **B65D81/34**;


CPC **B32B1/00 (EP)**; **B32B27/10 (EP)**; **B32B27/40 (EP)**; **B65D65/466 (EP)**; **Y02W90/10 (EP)**;

Priorities BR102021023134A-2021-11-18; BR102022010575A-2022-05-30;

Front-page drawing from EP4434739A1



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☐ 1. **BIODEGRADABLE PACKAGING** AND METHOD F...
 EP4434739A1 • 2024-09-25 • ALL4LABELS GRAFICA D...
Earliest priority: 2021-11-18 • Earliest publication: 2023-05-25
 ...The present invention refers to a **biodegradable**, recyclable, compostable, sealable and thermoformed **packaging** to be used in the **packaging** of... problem: For that purpose, a **biodegradable packaging**

☐ 2. **BIODEGRADABLE FILM FOR CIGARETTE PACKA...**
 US2024286812A1 • 2024-08-29 • KT & G CORP [KR]
Earliest priority: 2021-12-16 • Earliest publication: 2023-06-22
 ...Provided is a **biodegradable** film for cigarette **packaging**, the film including a first film layer applied such that one surface..., and a second film layer positioned between the first film layer and the third

☆ **EP4434739A1** **BIODEGRADABLE PACKAGING** AND METHOD FOR MANUFACTURING SAME

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Related applications

[0001] This application claims the priorities of the following earlier applications: BR10 20210231343 filed on 18/11/2021, BR1020220105758 filed on 30/05/2022 and certificate of addition no. BR1320220223890 filed on 03/11/2022. The content of the present PCT international application is a merger of applications BR 1020220105758 and BR 132022 0223890, duly harmonised into a single text.

Field of the Invention

[0002] The present invention refers to a biodegradable, recyclable, sealable, compostable, thermoformed packaging to be used, among other possible applications, in the packaging of foodstuffs for hot dishes, frozen foods, cold foods, meat cuts and vegetables in general, as well as for personal and household hygiene products, among others, and it also refers to its production method.

Background of the Invention

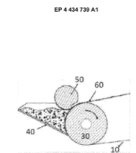



FIG. 1.1

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EP4434739A1 • 2024-09-25 • ALL4LABELS GRAFICA D...
Earliest priority: 2021-11-18 • Earliest publication: 2023-05-25
...The present invention refers to a biodegradable, recyclable, compostable, sealable and thermoformed packaging to be used in the packaging of... problem: For that purpose, a biodegradable packaging

☐ 2. BIODEGRADABLE FILM FOR CIGARETTE PACKA...
US2024286812A1 • 2024-08-29 • KT & G CORP [KR]
Earliest priority: 2021-12-16 • Earliest publication: 2023-06-22
...Provided is a biodegradable film for cigarette packaging, the film including a first film layer applied such that one surface..., and a second film layer positioned between the first film layer and the third

☆ US2024286812A1 BIODEGRADABLE FILM FOR CIGARETTE PACKAGING

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TECHNICAL FIELD

[0001] The present invention relates to a biodegradable film for cigarette packaging.

[0002] The present application claims priority based on Korean Patent Application Nos. 10-2021-0180288 filed on Dec. 16, 2021, and 10-2022-0175881 filed on Dec. 15, 2022, the entire contents of which are incorporated as a part of the present specification by reference.

BACKGROUND ART


[0003] Synthetic plastics are widely used as a packaging material requiring inexpensive and lightweight properties and the like along with excellent properties. Examples of such synthetic plastics include polyvinyl chloride (PVC), polyethylene (PE), polypropylene (PP), polyethylene terephthalate (PET) and the



EN

Patent Application Publication Aug. 29, 2024 US 2024286812 A1



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☐ 1. BIODEGRADABLE PACKAGING AND METHOD FOR MANUFACTURING SAME
 EP4434739A1 • 2024-09-25 • ALL4LABELS GRAFICA DO BRASIL LTDA [BR]
 Earliest priority: 2021-11-18 • Earliest publication: 2023-05-25
 ...The present invention refers to a biodegradable, recyclable, compostable, sealable and thermoformed packaging to be used in the packaging of... problem: For that purpose, a biodegradable packaging is proposed, said packaging being composed of layers, being a substrate (10) made of paper, and a coating (20), coating

☐ 2. BIODEGRADABLE FILM FOR CIGARETTE PACKAGING
 US2024286812A1 • 2024-08-29 • KT & G CORP [KR]
 Earliest priority: 2021-12-16 • Earliest publication: 2023-06-22
 ...Provided is a biodegradable film for cigarette packaging, the film including a first film layer applied such that one surface..., and a second film layer positioned between the first film layer and the third film layer. In the biodegradable film... at least one of the first film layer, the second film layer and the third film layer includes a

☆ US2024286812A1 BIODEGRADABLE FILM FOR CIGARETTE PACKAGING

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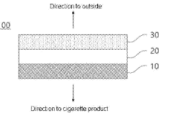
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[0002] The present application claims priority based on Korean Patent Application Nos. 10-2021-0180288 filed on Dec. 16, 2021, and 10-2022-0175881 filed on Dec. 15, 2022, the entire contents of which are incorporated as a part of the present specification by reference.

BACKGROUND ART

[0003] Synthetic plastics are widely used as a packaging material requiring inexpensive and lightweight properties and the like along with excellent properties. Examples of such synthetic plastics include polyvinyl chloride (PVC), polyethylene (PE), polypropylene (PP), polyethylene terephthalate (PET) and the like. Despite their excellent properties, the synthetic plastics generate many harmful substances during manufacture or incineration, or accumulate without being hardly decomposed due to their chemical and biological stability causing environmental pollution problems. As environmental issues have

Patent Application Publication Aug. 29, 2024 US 2024/0286812 A1

FIG. 1

Direction to outside

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drugs parkinson

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« A61P23/00 A61P27/00 »

Symbol	Classification and description
★ ★ ★ ★ ★ <input type="checkbox"/> A61P 35/00	Antineoplastic agents
★ ★ ★ ★ ★ <input type="checkbox"/> A61P 43/00	Drugs for specific purposes, not provided for in groups A61P 1/00-A61P 41/00
★ ★ ★ <input type="checkbox"/> A61P 25/00	Drugs for disorders of the nervous system
<input type="checkbox"/> A61P 25/02	• for peripheral neuropathies
<input type="checkbox"/> A61P 25/04	• Centrally acting analgesics, e.g. opioids
<input type="checkbox"/> A61P 25/06	• Antimigraine agents
<input type="checkbox"/> A61P 25/08	• Antiepileptics; Anticonvulsants
<input type="checkbox"/> A61P 25/10	• for petit-mal
<input type="checkbox"/> A61P 25/12	• for grand-mal
<input type="checkbox"/> A61P 25/14	• for treating abnormal movements, e.g. chorea, dyskinesia
<input type="checkbox"/> A61P 25/16	• Anti-Parkinson drugs

Selected classifications

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CPC Text Categoriser

The CPC text categoriser is a CPC symbol predictor which suggests CPC symbols based on the text entered in the window below.

Technology description (English detected)

Write a plain description in English, French or German.

☐ Maingroup ☒ Subgroup



I am human

FriendlyCaptcha

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Classify



Advanced settings

How to use it?



Write between **7 and 1024 words** in English, French or German. The longer the text, the better the AI model will work in identifying the best CPC symbols.



You may adapt the confidence level or the number of displayed symbols in the **advanced settings**.

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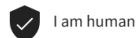
CPC Text Categoriser

The CPC text categoriser is a CPC symbol predictor which suggests CPC symbols based on the text entered in the window below.

Technology description (English detected)

Apparatus specially adapted for manufacture or treatment of cocoa or cocoa products, in particular for chocolate refining

☐ Maingroup ☒ Subgroup



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Classify

Clear



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How to use it?



Write between **7 and 1024 words** in English, French or German. The longer the text, the better the AI model will work in identifying the best CPC symbols.





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Top 5 results at Subgroup level

1

A	HUMAN NECESSITIES	
	FOODSTUFFS; TOBACCO	
A23	FOODS OR FOODSTUFFS; TREATMENT THEREOF, NOT COVERED BY OTHER CLASSES	
A23G	COCOA; COCOA PRODUCTS, e.g. CHOCOLATE; SUBSTITUTES FOR COCOA OR COCOA PRODUCTS; CONFECTIONERY; CHEWING GUM; ICE-CREAM; PREPARATION THEREOF	
A23G 1/00	Cocoa; Cocoa products, e.g. chocolate; Substitutes therefor	
A23G 1/0003	Processes of manufacture not relating to composition or compounding ingredients	
A23G 1/0026	Mixing; Roller milling for preparing chocolate	
A23G 1/0033	Chocolate refining, i.e. roll or mill refining	

2

A	HUMAN NECESSITIES	
	FOODSTUFFS; TOBACCO	

ACCESS TO THE AI-BASED CPC TEXT CATEGORISER


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Classification search

Use this page to find CPC symbol meanings or search relevant symbols by keywords in the worldwide bibliographic database. Espacenet will list the most frequent ones at main group level.

Index **A** B C D E F G H Y

Symbol	Classification and description
<input type="checkbox"/> A	HUMAN NECESSITIES
<input type="checkbox"/> A23	FOODSTUFFS; TOBACCO
<input type="checkbox"/> A23G	FOODS OR FOODSTUFFS; TREATMENT THEREOF, NOT COVERED BY OTHER CLASSES
<input type="checkbox"/> A23G 1/00	COCOA; COCOA PRODUCTS, e.g. CHOCOLATE; SUBSTITUTES FOR COCOA OR COCOA PRODUCTS; CONFECTIONERY; CHEWING GUM; ICE-CREAM; PREPARATION THEREOF
<input type="checkbox"/> A23G 1/003	Cocoa; Cocoa products, e.g. chocolate; Substitutes therefor
<input type="checkbox"/> A23G 1/0003	•Processes of manufacture not relating to composition or compounding ingredients
<input type="checkbox"/> A23G 1/0026	••[Mixing; Roller milling for preparing chocolate]
<input type="checkbox"/> A23G 1/0033	•••[Chocolate refining, i.e. roll or mill refining]

Selected classifications

Find patents

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7. CONCLUSION



CONCLUSION

- Time-saving features for worldwide searches and patent comparisons
- Efficient and flexible navigation
- AI-powered classification assistance

THANK YOU FOR YOUR ATTENTION!

Andrée Lahaye

alahaye@epo.org

Patent Knowledge Directorate
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