

## F21L

### LIGHTING DEVICES OR SYSTEMS THEREOF, BEING PORTABLE OR SPECIALLY ADAPTED FOR TRANSPORTATION

#### Definition statement

*This place covers:*

- Lighting devices or systems of lighting devices which are specially adapted to be carried, e.g. by hand, or otherwise transported from place to place, e.g. on wheeled supports, in order to provide illumination where required. The light sources of the lighting devices may be either electrically powered (e.g. by electric batteries, electric cells, electric generators or cables for electric mains connection) or non-electrically powered (e.g. by combustion or daylight).
- Details and components specially adapted to be used for carrying or transporting lighting devices or systems of lighting devices.

#### Relationships with other classification places

The borderline between subclasses [F21L](#) and [F21S](#) is defined by the words "portable" and "fixed", not by "movable" and "non-movable". For example, lighting devices or systems used in the operation of vehicles, e.g. headlights, which are fixed on the vehicle and move together with the vehicle when it is travelling are considered to be non-portable, since they are components of the vehicle and fixed relative to the remainder of the vehicle at a permanent location. Such lighting devices are classified in subclass [F21S](#). Lighting devices transported by a vehicle between locations and used for lighting purposes not related to the operation of the vehicle are classified in [F21L](#).

Functional features or details of lighting devices or systems are classified in subclass [F21V](#).

Structural combinations of lighting devices with other articles are classified in [F21V 33/00](#), unless specifically provided for in this subclass or elsewhere in the CPC.

Light sources per se are covered in places indicated in the section "Informative references".

In this subclass, it is desirable to add the indexing codes of subclass [F21W](#) in order to indicate the uses or applications of lighting devices, and of [F21Y](#) in order to indicate the form of the light sources of lighting devices.

#### References

##### Application-oriented references

*Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:*

Light pointers	<a href="#">G02B 27/20</a>
Flash units for photography	<a href="#">G03B 15/03</a>
Transportable traffic lights	<a href="#">G08G 1/0955</a>

##### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Arrangement or adaptation of portable emergency signal devices on vehicles	<a href="#">B60Q 7/00</a>
Candles	<a href="#">C11C 5/00</a>
Incandescent bodies heated by combustion, e.g. mantles	<a href="#">F21H</a>

Non-electric light sources using luminescence	<a href="#">F21K 2/00</a>
Light sources using electrochemiluminescence	<a href="#">F21K 2/08</a>
Light sources using charges of combustible material, e.g. illuminating flash devices	<a href="#">F21K 5/00</a>
Light sources using semiconductor devices as light generating elements, e.g. using light-emitting diodes [LED] or lasers	<a href="#">F21K 9/00</a>
Light sources not otherwise provided for	<a href="#">F21K 99/00</a>
Non-portable lighting devices; Systems thereof; Vehicle lighting devices specially adapted for vehicle exteriors	<a href="#">F21S</a>
Lighting devices intended to be free standing	<a href="#">F21S 6/00</a>
Non-electric lighting devices intended to be free-standing, e.g. table lamp, floor lamp	<a href="#">F21S 13/12</a>
Functional features or details of lighting devices or systems thereof	<a href="#">F21V</a>
Structural combinations of lighting devices with other articles, not otherwise provided for	<a href="#">F21V 33/00</a>
Candle holders	<a href="#">F21V 35/00</a>
Burners	<a href="#">F23D</a>
Fireworks	<a href="#">F42B 4/00</a>
Electric discharge tubes or discharge lamps	<a href="#">H01J</a>
Electric incandescent lamps	<a href="#">H01K</a>
Fastening electric light sources solely by the coupling device	<a href="#">H01R 33/00</a>
Masers; Lasers	<a href="#">H01S</a>
Electric arc lamps	<a href="#">H05B 31/00</a>
Electroluminescent light sources	<a href="#">H05B 33/00</a>
Electric light sources using a combination of different types of light generation	<a href="#">H05B 35/00</a>
Semiconductor devices specially adapted for light emission	<a href="#">H10H 20/00</a>
Organic semiconductor devices specially adapted for light emission	<a href="#">H10K 50/00</a>

## Special rules of classification

Non-electric lighting devices are classified in groups [F21L 17/00](#) - [F21L 26/00](#) only if a special adaptation related to the use of a non-electric light source is of interest. If there is no such special adaptation, classification is made in a relevant general place.

In this subclass, it is desirable to add the Indexing Codes of subclasses [F21W](#) and [F21Y](#).

## Glossary of terms

*In this place, the following terms or expressions are used with the meaning indicated:*

light source	the entity (e.g. light bulb, fluorescent tube, gas mantle, combustible charge, luminescent element or semiconductor light generating element) that generates light for a lighting device
pocket lamps	lamps primarily intended to be held in a hand, or to fit in a pocket

## F21L 2/00

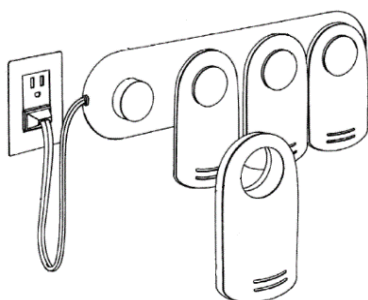
**Systems of electric lighting devices (systems employing both electric and non-electric light sources or exchangeable light sources [F21L 27/00](#))**

### Definition statement

*This place covers:*

Set of plurality of identical portable lighting devices.

The following image shows an example of an identical portable lighting system.



### References

#### Limiting references

*This place does not cover:*

Systems employing both electric and non-electric light sources or exchangeable light sources	<a href="#">F21L 27/00</a>
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#### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Systems employing lighting devices with a built-in power supply, the lighting devices not being "portable"	<a href="#">F21S 9/00</a>
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## F21L 4/00

**Electric lighting devices with self-contained electric batteries or cells**

### Definition statement

*This place covers:*

Electrical portable lighting devices being self-powered

## References

### Informative references

Attention is drawn to the following places, which may be of interest for search:

Systems employing lighting devices with a built-in power supply, the lighting devices not being "portable"	<a href="#">F21S 9/00</a>
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## F21L 4/005

{the device being a pocket lamp ([F21L 4/022](#), [F21L 4/045](#), [F21L 4/085](#) take precedence)}

### Definition statement

This place covers:

Illustrative examples of subject matter classified in this place:

1.

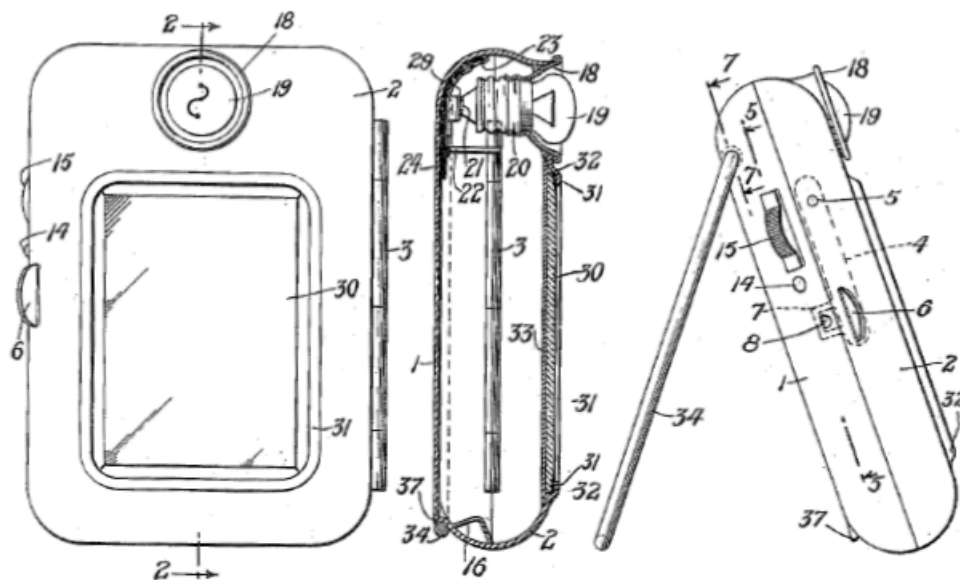


Figure 1 illustrates a flat type self-contained or battery-operated portable electric light.

2.

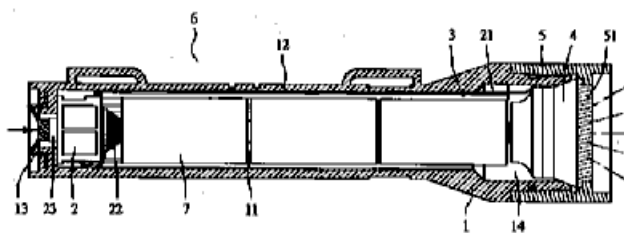


Figure 2 illustrates a torch.

3.

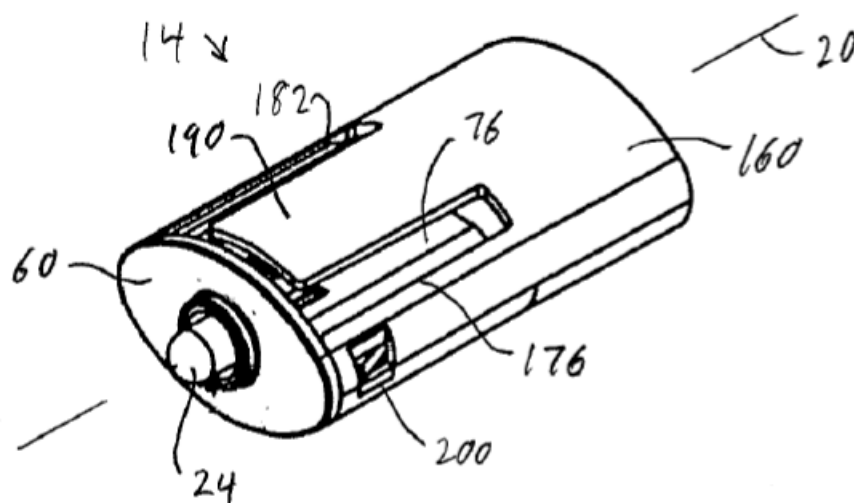


Figure 3 illustrates a squeeze-activated flashlight.

## References

### Limiting references

*This place does not cover:*

Pocket lamps characterised by the provision of two or more light sources	<a href="#">F21L 4/022</a>
Pocket lamps characterised by the provision of a light source housing portion adjustably fixed to the remainder of the device	<a href="#">F21L 4/045</a>
Pocket lamps characterised by means for in situ recharging of the batteries or cells	<a href="#">F21L 4/085</a>

## Glossary of terms

*In this place, the following terms or expressions are used with the meaning indicated:*

pocket lamps	lamps primarily intended to be held in a hand, or to fit in a pocket
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## Synonyms and Keywords

*In patent documents, the following words/expressions are often used as synonyms:*

- "flashlight", "pocket lamp" and "torch"

## F21L 4/025

**{the light sources being of different shape or type}**

## Special rules of classification

In this subclass, it is desirable to add the Indexing Codes of subclasses [F21Y 2113/20](#)

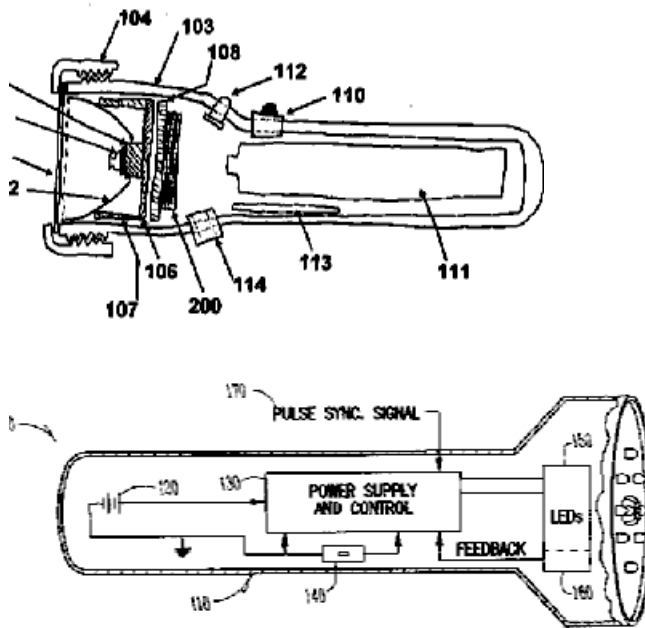
**F21L 4/027**

{the light sources being a LED}

**Definition statement**

*This place covers:*

Pocket lamp, the light emitter of which being one or more LED

**Special rules of classification**

In this subclass, it is desirable to add the Indexing Codes [F21Y 2101/00](#)

**F21L 4/04**

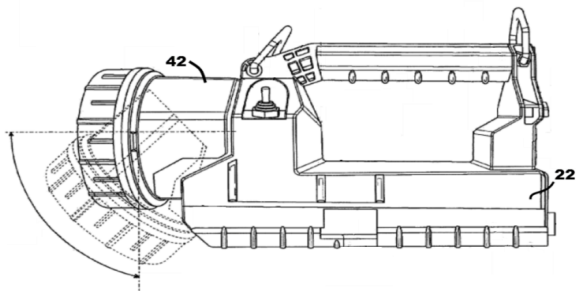
characterised by the provision of a light source housing portion adjustably fixed to the remainder of the device

**Definition statement**

*This place covers:*

Portable lighting device having a head portion mechanically attached to the body part and adjustably attached to it.

The following illustration shows light source housing (42) adjustably fixed to lantern body (22).



## References

### Informative references

Attention is drawn to the following places, which may be of interest for search:

Head portion attached to body part by means of flexible connecting sheath comprising electrical wires	<a href="#">F21L 4/06</a>
Head portion of a lighting device being adjustable	<a href="#">F21V 21/30</a>

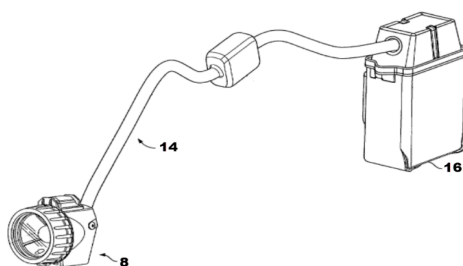
## F21L 4/06

**with the light source coupled to the remainder of the device solely by cable**

### Definition statement

*This place covers:*

For example, note the following figure showing head portion (8) attached to body part (16) by means of flexible connecting sheath comprising electrical wires (14).



## References

### Informative references

Attention is drawn to the following places, which may be of interest for search:

Portable lighting device with a light source housing portion adjustably fixed to the remainder of the device	<a href="#">F21L 4/04</a>
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**F21L 4/08**

**characterised by means for in situ recharging of the batteries or cells**

**Definition statement**

*This place covers:*

Portable lighting device provided with connectors to connect the device to external power supply in order to recharge the batteries, e.g. with built-in accumulators

Portable lighting device provided with accumulators (not shaped like conventional batteries) that can be dismantled in order to be recharged on an external recharging base

Portable lighting devices with solar cells integrated to the body of the lamp

**References****Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

Circuit arrangements for charging or depolarising batteries or for supplying loads from batteries	<a href="#">H02J 7/00</a>
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**F21L 13/00**

**Electric lighting devices with built-in electric generators (with solar cells  
[F21L 4/00](#))**

**References****Limiting references**

*This place does not cover:*

Electric lighting devices with solar cells	<a href="#">F21L 4/00</a>
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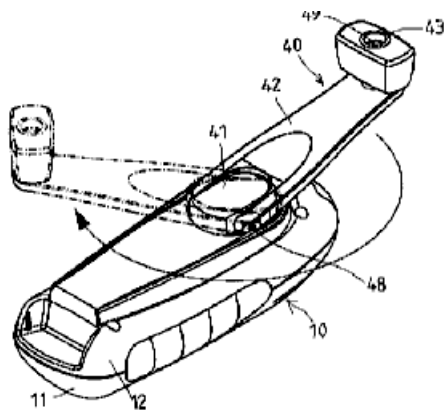
**F21L 13/06**

with mechanical drive, e.g. spring

**Definition statement**

*This place covers:*

Flashlight having manual charging device

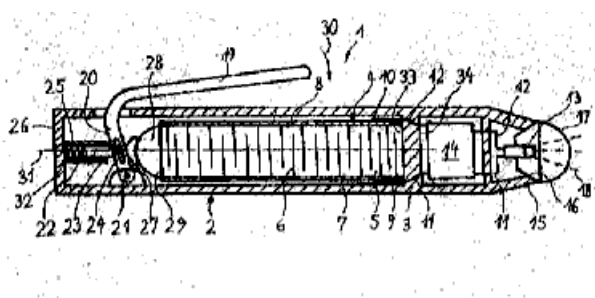
**F21L 13/08**

by reciprocating pusher actuated by hand

**Definition statement**

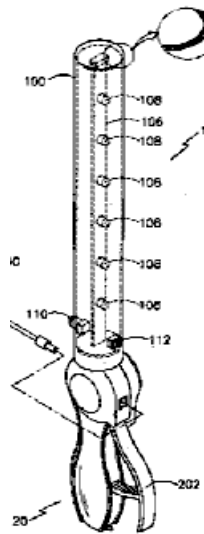
*This place covers:*

Electric power device for portable device with a piezo-converter



## Definition statement

Portable signal light with a self-generator

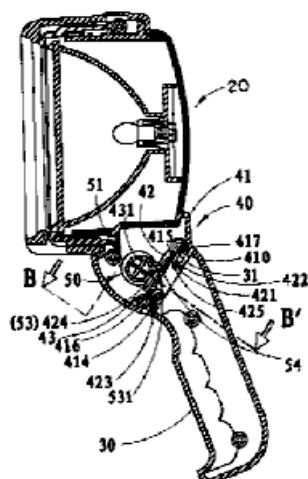
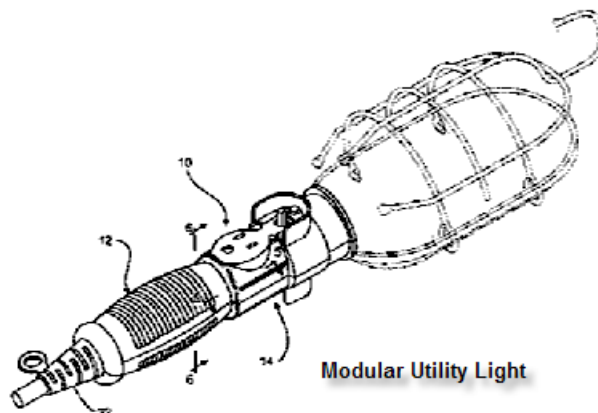


## F21L 14/02

capable of hand-held use, e.g. inspection lamps

## Definition statement

*This place covers:*



**F21L 14/023**

{having two or more, or different light sources}

**Special rules of classification**

In this subclass, it is desirable to add the appropriate Indexing Codes of subclasses [F21Y 2113/00](#)

**F21L 14/026**

{having a linear light source}

**Special rules of classification**

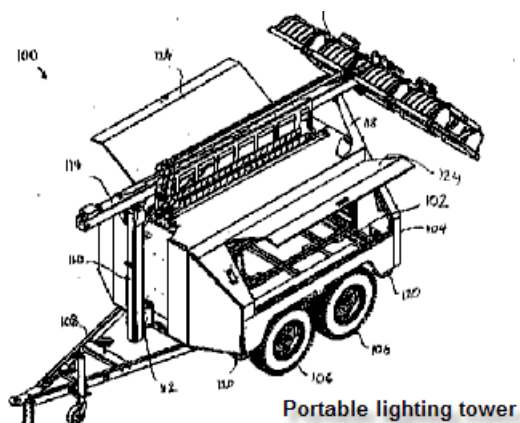
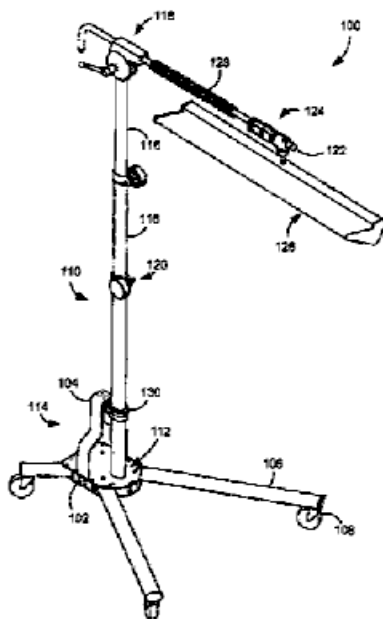
In this subclass, it is desirable to add the appropriate Indexing Codes of subclasses [F21Y 2103/00](#)

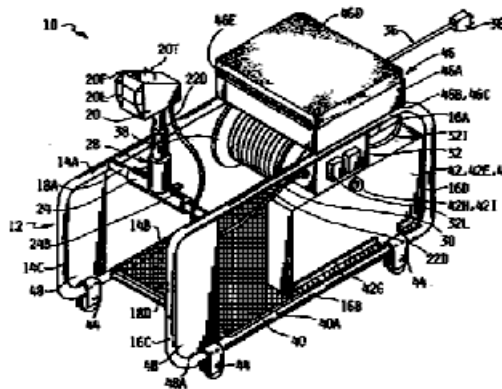
**F21L 14/04**

carried on wheeled supports

**Definition statement**

*This place covers:*





## References

### Informative references

Attention is drawn to the following places, which may be of interest for search:

Projector or searchlight on land vehicles	<a href="#">B60P 3/18</a>
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## F21L 19/00

Lanterns, e.g. hurricane lamps or candle lamps

## References

### Informative references

Attention is drawn to the following places, which may be of interest for search:

Candle holders	<a href="#">F21V 35/00</a>
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## F21L 19/003

{Fastening or lifting of the lamp glass (fastening of component parts of lighting devices [F21V 17/00](#))}

## References

### Limiting references

This place does not cover:

Fastening of component parts of the lighting devices	<a href="#">F21V 17/00</a>
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**F21L 19/006**

{Special adaptation for protection against draughts (in lighting devices employing combustion other than lanterns [F21V 37/02](#))}

**References**

***Limiting references***

*This place does not cover:*

In lighting devices employing combustion other than lanterns	<a href="#">F21V 37/02</a>
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