Novelty Search
Report

Patent examiner: Åsa Fohlin

Our ref: 178116
Date of search:
Your ref: Case Study

Your guide through the patents of the world.
Novelty Search – at fixed price

A Novelty Search is performed by one or several of PRV’s patent examiners. The search is performed in the most relevant databases for the topic, chosen by the patent examiner.

The aim with the search is to find hindrance questioning the novelty or the invented step, as found in the described invention. The report contains categorized citations (1, 2 or 3) together with comments on relevant documents. The cited documents are enclosed the report. Cited patents are attached, but due to the Copyright law the non patent literature documents (NPL), if any, will only be presented with bibliographic data in the electronic report. The complete references will be sent by mail.

Please note that we do not state an opinion regarding the patentability.
Scope of the search
The search has focused on the following:

The search has been directed towards finding a ball-point pen with the following technical characteristics:
1) The pen is a ball-point pen.
2) The pen has a lamp arranged on it, in order to enable writing in the dark.
3) The lamp is a light emitting diode (LED).

Search history
Used keywords and classes:

IPC classes:
* B43K7/00 – ball-point pens
* B43K29/10 – combinations of writing implements with illuminating devices

USPC classes:
* 362/118 – ILLUMINATION; Pen or pencil

Search words (truncations are not included, for the sake of clarity):
* ball-point pen
* light, lighting, lamp, illumination, illuminating, light emitting diode, LED, diode

Citing/Cited documents for all relevant documents were retrieved and evaluated.

Summary of the result
The patent examiner’s comments:

The search has revealed documents that disclose all the characteristics listed under “Scope of the search”, and these are labeled “1”. Two documents discloses two of the three listed characteristics, labeled “2”, and one document discloses only one of the characteristics, labeled “3”.

If there are any questions regarding the result, please do not hesitate to contact the examiner.
The following databases have been used:

Patent databases
EPODOC
World Patent Index
Full-text English

Result
The following documents are considered to be relevant. They are categorized according to the codes:

1 = Document of particular interest
2 = Document defining general state of the art
3 = Document referred to for other reasons

Patent Literature

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<th>Applicant</th>
<th>Class</th>
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Patent Literature

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Applicant
BERKOVITZ S TAMIR G TAMIR T

Title
Pen i.e. optical magnifying pen, has writing assembly, and optical magnifying assembly with two magnification levels, where magnifying assembly provided with double-prismatic lens

Comments
A pen comprising an illuminating element (claim 2), whereas said illuminating assembly is a light emitting diode (LED) (claim 4). The pen being a ball-point pen (paragraph [0002]).

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Applicant
XIONG K XIONG T T

Title
Ball point pen with light source mounted pocket clip - has mini flash light source with LED mounted in external pocket clip for emitting light towards front writing tip, when connected to battery

Comments
A writing implement having an attached pocket clip with a light source (claim 1), where said writing element is a ball point pen (claim 2), the light source has a light emitting diode (claim 3). See also column 1 line 56 - column 2 line 7 and figure 1.
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**Applicant**
BAYLES G

**Title**
Illuminated hand-held writing instrument - has housing containing writing portion and upper portion with reflector directing light through transparent window, with optical fibers transferring light to writing portion

**Comments**
An illuminating writing instrument (claim 1). The writing instrument may be a ball-point pen (refer to column 4, lines 7-9). !! Not mentioning the use of light emitting diodes (LED).

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**Applicant**
YEN M

**Title**
Telescopic tool pen for writing purpose, has lamp holder installed on mounting seat of telescopic pipe, and light emitting diode with two electrodes installed on holder, where light emitting diode illuminates location of accessory

**Comments**
A telescopic tool pen with an illumination device (a light emitting diode, LED) (claim 1). !! Not mentioning a ball-point, but assumed from the figures, (figure 1).

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**Applicant**
GEDDES CO INC RAYMOND

**Title**
Illuminating ball-point pen has reservoir tube inside holder, with upper end contacting metal stopper which in turn is fitted to bottom of battery mounting

**Comments**
An illuminating ball-point pen (claim 1). !! Not mentioning the use of light emitting diodes (LED).
Aspect  | Relevance | Patent number | Class
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new_ball-point pen | 3 | US6283662 | B05C17/00; B43K1/08; B43K5/18 (+4)

Applicant
SAKURA COLOR PROD CORP SAKURA KUREPASU KK

Title
Ink applicator having ink back-flow prevention mechanism

Comments
A ball-point pen with an ink applicator having ink back-flow prevention mechanism. The valve mechanism has an axially movable valve disc, a valve seat situated on the side of the ink container. When the ink applicator tip is disposed upward, the valve disc contacts the valve seat to prevent the back-flow of ink from the tip portion toward the ink container portion (claim 1). !! Not illuminated.

Non-Patent Literature (NPL)
The NPL documentation is protected by Copyright law. In the electronic report it is presented with bibliographic data only. Printed abstracts and references will be sent by postage. Read more here how we handle NPL according to the Copyright law

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Please note that PRV retains all material sent in, including models.