L'INTELLIGENCE ARTIFICIELLE (IA)
AU SERVICES DES SPÉCIALISTES BREVETS

ASPI ASSOCIATION FRANÇAISE DES SPÉCIALISTES EN PROPRIÉTÉ INDUSTRIELLE DE L'INDUSTRIE

Café du mardi 18 mai 2021

09:00 - 10:00

INTRODUCTION

FROM PARSERS …

… TO BERT AND GPT-3 …

- 2013: <u>Word2vec</u>, "word embeddings", ou « plongement lexical » in French), bad parallelization

- 2017: "<u>Transformers</u>" by Google, good parallelization !

- 2018: <u>BERT</u> (*Bidirectional Encoder Representations from Transformers)* is a Transformer-based machine learning technique for natural language processing (NLP) pre-training developed by Google. Models are pre-trained from un-labeled data extracted from BooksCorpus with 800M words and English Wikipedia with 2,500M words.

- 2020: <u>GPT-3</u> par Open AI, *Generative Pre-trained Transformer* 3 is a language model that uses deep learning to produce human-like text. GPT-3's full version has a capacity of 175 billion machine learning parameters.

- 2021: Google <u>T5</u> ("Text-To-Text Transfer Transformer")

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MARCHÉ

PANORAMA DES ACTEURS

SOLUTIONS LEXISNEXIS IP

- Analyse du contenu d'une demande de brevets

- Orientation vers une unité de recherche spécifique (USPTO)

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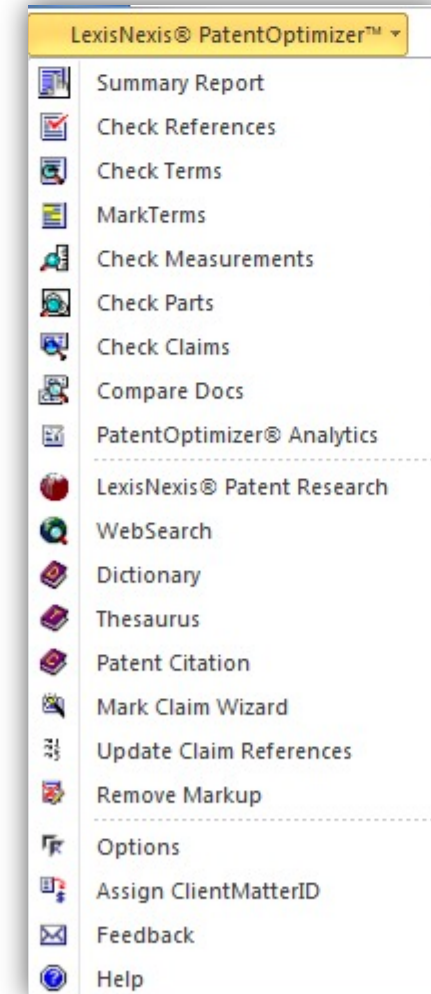
LEXISNEXIS IP - PATENTOPTIMIZER

Making & Breaking Patents

Drafting

- ✓ Create stronger more defensible patents
- ✓ Save time while improving quality and accuracy
- ✓ Speed drafting and shorten prosecution
- ✓ QA - Law Firms/Agents

Litigation/Opposition

- ✓ Identify weaknesses within written description of published documents

LexisNexis® PatentOptimizer™ ▾

- Summary Report
- Check References
- Check Terms
- MarkTerms
- Check Measurements
- Check Parts
- Check Claims
- Compare Docs
- PatentOptimizer® Analytics
- LexisNexis® Patent Research
- WebSearch
- Dictionary
- Thesaurus
- Patent Citation
- Mark Claim Wizard
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- Assign ClientMatterID
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- Help

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LEXISNEXIS IP - PATHWAYS

Targeted drafting for USPTO prosecution

1. A ~~system~~ <u>method of treating a patient</u>, comprising:
<u>Implanting</u> an orthopedic hardware component attachable to a portion of a body; and
<u>Dispensing medication to the patient via</u> a sustained release device associated with the orthopedic hardware component~~, the sustained release device configured to release a compound having a therapeutic effect~~ over an extended period of time.
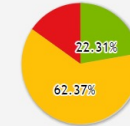
55.0%

Tech Center Group 37D : Medical & Surgical Instruments, Treatment Devices, Surgery and Surgical Supplies
Tech Center: 3700

Allowance Rate: **63.2%**

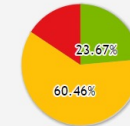Probability of examiner assignment.
Target
Avoid
22.31%
62.37%

13.0%

Tech Center Group 37F : Body Treatment, Kinestherapy, and Exercising
Tech Center: 3700

Allowance Rate: **63.9%**

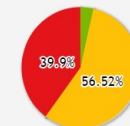Probability of examiner assignment.
Target
Avoid
23.67%
60.46%

7.0%

Tech Center Group 1610 : Organic Compounds: Bio-affecting, Body Treating, Drug Delivery, Steroids, Herbicides, Pesticides, Cosmetics, and Drugs
Tech Center: 1600

Allowance Rate: **41.8%**

Probability of examiner assignment.
Target
Avoid
39.9%
56.52%

SOLUTIONS QATENT

- Éditeur de revendications

- Générateur de description

- Validation de demandes de brevets (vérifications formelles)

- Autres (par exemple, réponse à lettre officielle ?)

QATENT

qatent propose aux Conseils en Propriété Industrielle, exerçant en cabinet ou dans l'industrie, des outils logiciels pour rédiger mieux et plus vite des demandes de brevets

qatent   Products   Pricing   Team   Roadmap   Contact   Intranet   **Get Started**

✓ **1. Claim drafting dashboard: Claim wider!**

- Heard of BERTs or GPT-3 ? Draft your claims leveraging computer horsepower in a unique dashboard.
- Drafting claims is an art, adjusting compromises between legal, technical and business factors.
- Draft support, with autocomplete, renumbering and vocabulary suggestion features.
- Optimize your scope of protection: make sure you check computer-generated suggestions before you file.

✓ **2. Patent description generator: File more and faster.**

- From your patent claims, in one click, generate a description ready to be filed. Options let you control this generation.
- If needed, you can draft overnight and generate as many pages needed from a simple claim tree.
- If needed, you can focus on post-editing, leverage powerful options and perfect your text. Make sure you use our super-templates embodying industry best practices, combined with cutting-edge machine learning.