

1. Patent Document **Assistance and Error Detection System**

Assist applicants in reducing textual errors in their applications

Reduce the workload on examiners, improving the quality of examination...



In 2021, Automated Patent Examination System for Utility Models In 2022, Automated Patent Examination System for Invention Patents In 2023, Patent Document Assistance and Error Detection System

Available on September 28, 2023 https://www.youtube.com/watch?v=-04NsJgdLv4

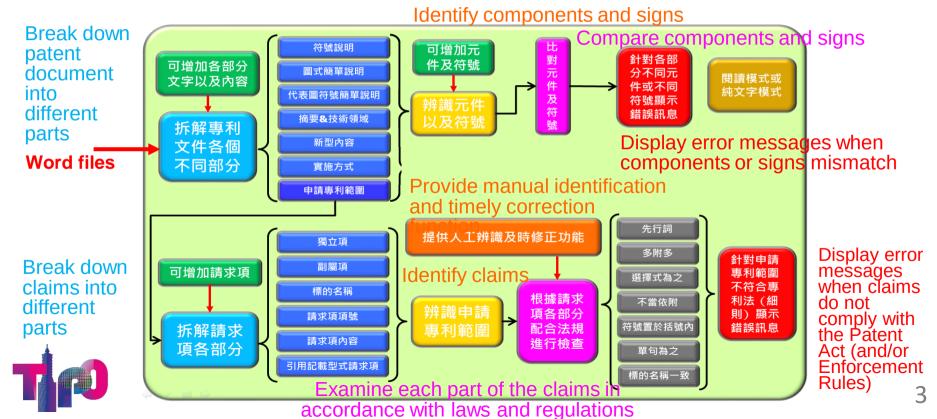


Patent





7, Patent Document Assistance and Error Detection System Operation Block Diagram



1. Patent Document Assistance and Error **Detection System System Interface**

Component Names, Signs, and Brief **Descriptions in Diagrams**



Content of Patent **Documents** Abstract. Technical Field. Prior Art. **Description of** Utility models, **Implementation** Methods, Claims

版本: 2023/10/10

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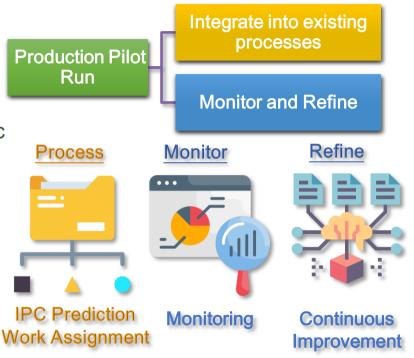
Go Top



2. IPC Automatic Classification

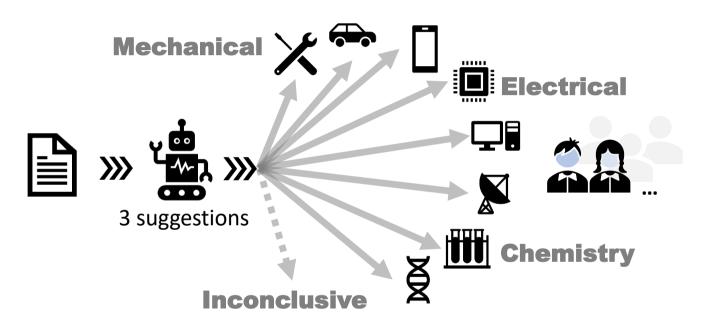
In 2017, TIPO **launched** the IPC Automatic Classification POC (proof of concept)

In 2020, it was continuously **updated** and integrated into the existing examination processes (Production Pilot Run)





2. IPC Automatic Classification







2. IPC Automatic Classification

In 2023, TIPO developed a **new** automatic classification module using the BERT algorithm

The subclass **accuracy** stands at approximately 87%, while the accuracy for the top 10 main groups is around 85%. The overall accuracy is measured at 64.8%

In 2024, TIPO plans to **integrate** this module into the existing examination process



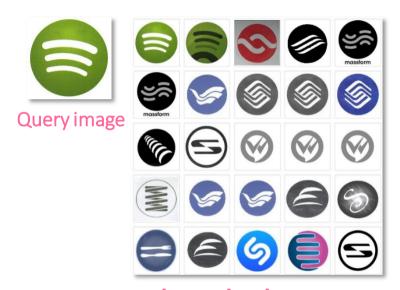
Provides 3 suggestions for each application





Transformer-BERT







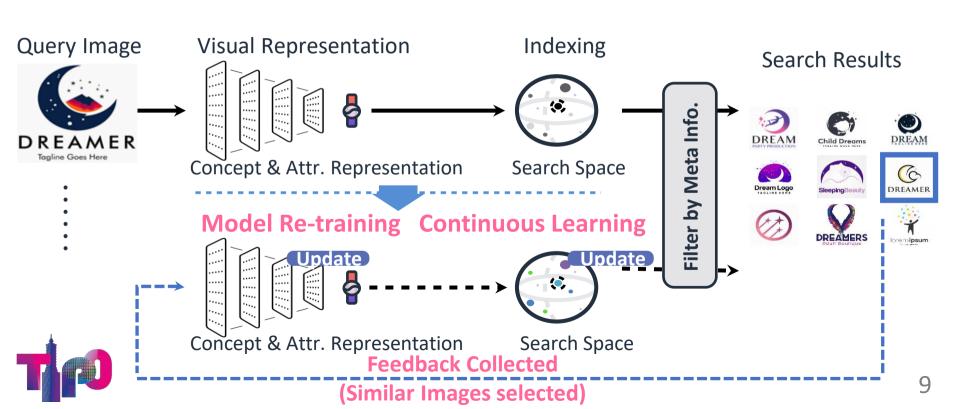
Query image



In 2020, TIPO **launched** the Trademark Image Search POC (proof of concept)

In 2022, the **Beta** version of the construction was successfull completed

Further Task: Continuous Learning



Implementation: Evaluator's feedback for Further



Images marked with the "-" feedback will have their rank moved backward after re-training Al model

Images marked with the "+" feedback will have their rank moved forward after re-training Al model





Local feature index model

In 2023, TIPO integrated the AI identification **local feature index** model

Within the **first 1,000** retrievals, the detection rate is approximately **64**%

Within the **first 5,000** retrievals, the detection rate is approximately **72**%



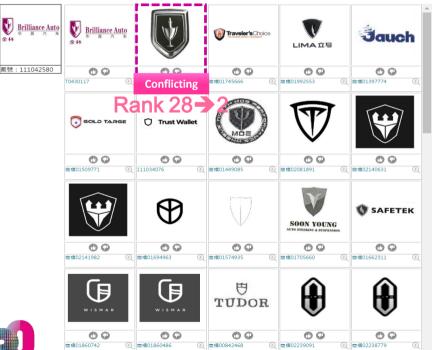
Al module without local feature identification





Al module with local feature identification









案號: 111042580

Rank: 21-40

