

Current Status of KIPRIS Advancement and KIPO's IT Strategy Plan

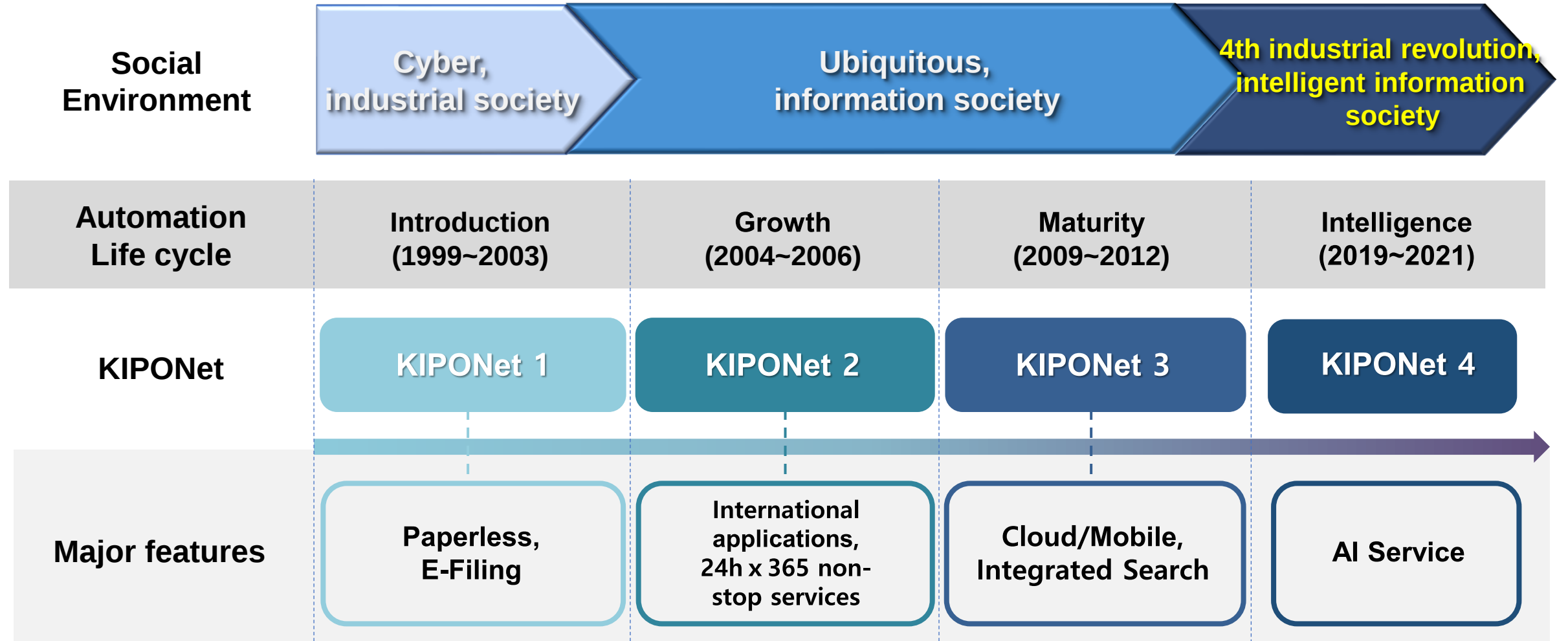
2025 PATENT INFORMATION FAIR & CONFERENCE, September 2025



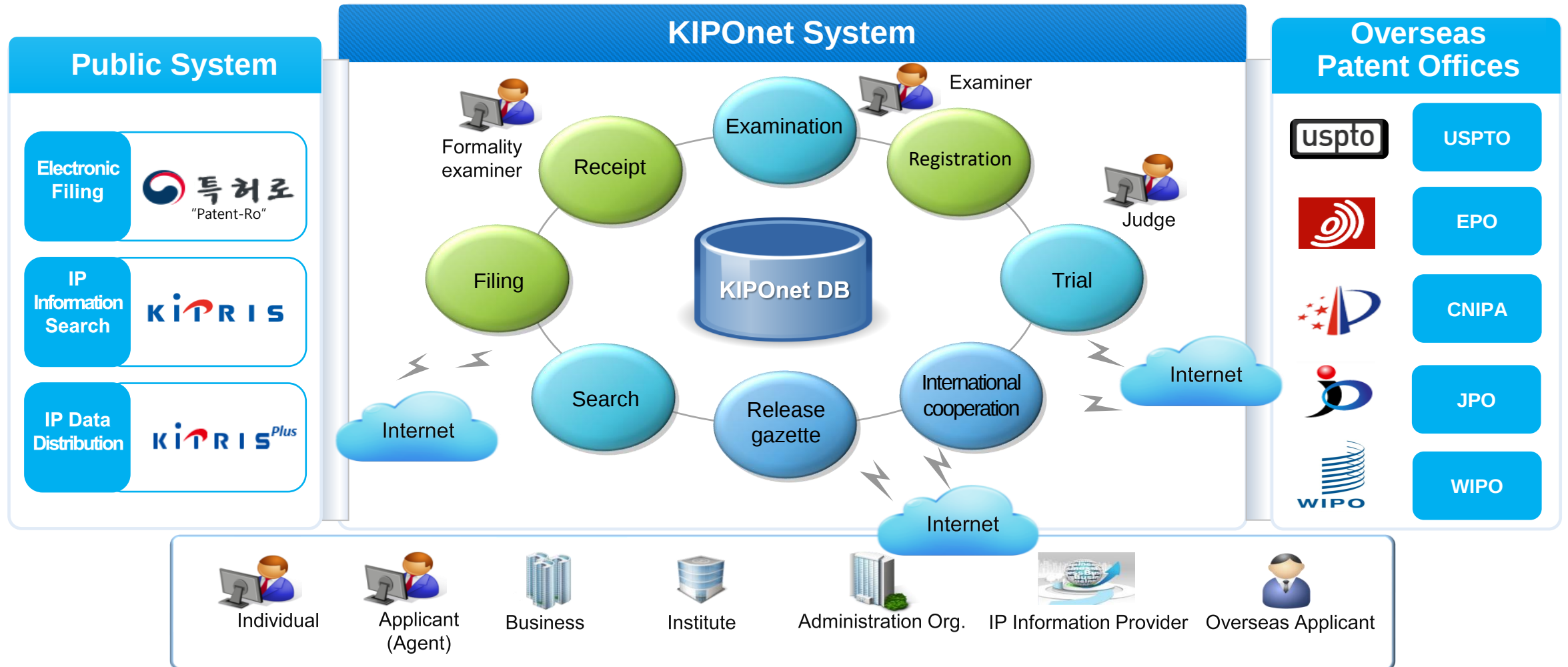
Korean Intellectual Property Office

I Introduction of KIPOnet system

System Overview



System Introduction



Status of KIPRIS Upgrade

Introduction of KIPRIS

KIPRIS

특허정보넷 KIPRIS

SEARCH TODAY KIPRIS PR GUIDE KIPRIS

특허·실용신안 디자인 상표 실권 KPA스 해외특허 해외상표 해외디자인 인터넷기술권지 아이디어공모전 문당정책

KIPRIS KIPRIS

www.kipris.or.kr

166 million/year

Used by 74 Countries

www.kipris.or.kr

Service Usage Status

IP Information Search

(Unit: Thousands)

Number of Search (Red line) Number of user IPs (Blue line)

Year	Number of Search (Thousands)	Number of user IPs (Thousands)
2003	5,513	-
2008	18,699	-
2013	40,804	-
2018	56,257	1,054,546
2024	166,870	2,127,270

Foreign Countries

Used by 74 Countries

Mobile Search Service

메뉴 및 안내서비스 간단 키워드 검색 특장점 검색을 위한 상세검색 부가서비스

언제 어디서든 손쉽게 특허정보 검색 가능

다양한 모바일 기기에서 (스마트폰, 태블릿 등) 간편하게

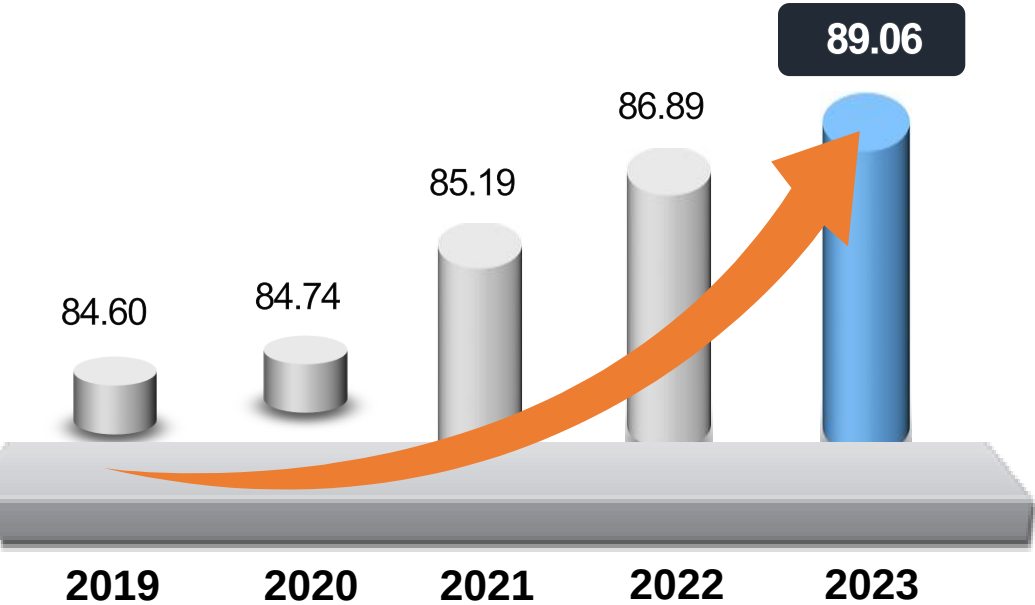
본 KIPRIS와 동일한 검색 결과물

www.kipris.or.kr

Operational Performance

User-satisfaction

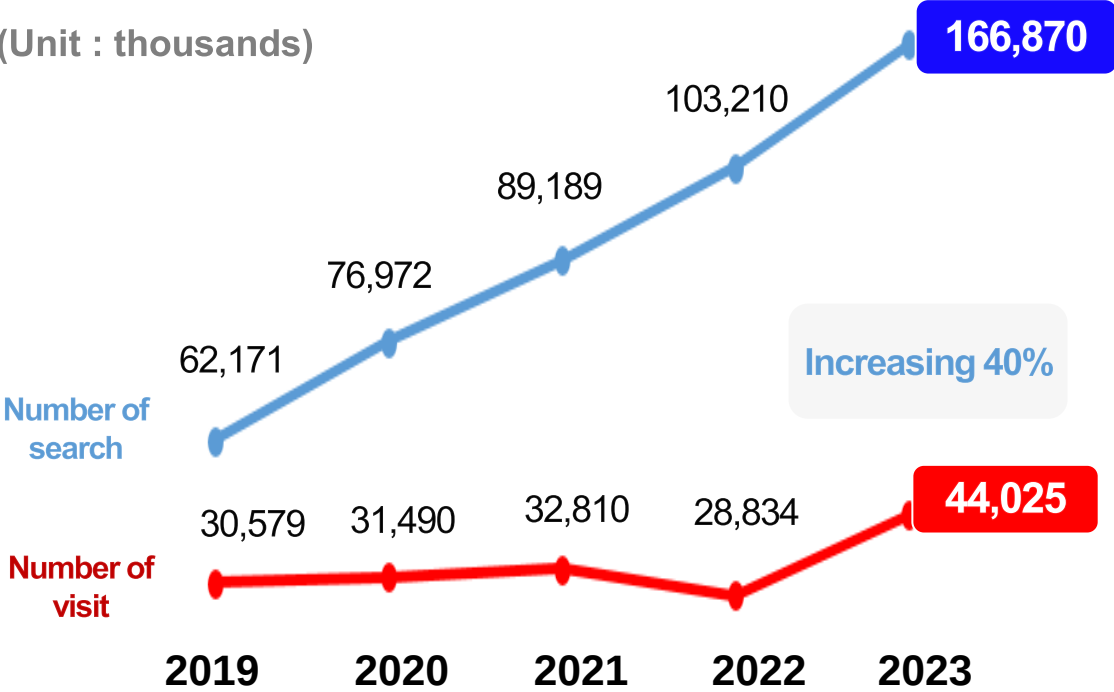
5.1% increase over the past 5 years



Usage of search

117% increase over the past 5 years

(Unit : thousands)



Improvement Goals

1. Enhancing accessibility

- 1 Redesigning UI·UX
- 2 Responsive web
- 3 Kor↔Eng conversion
- 4 Integration of search menu

2. Enhancing functionality

- 1 Application of NMT
- 2 Korean search for US & EU patent
- 3 Strengthened similar patent search
- 4 Visualization for search result

3. Additional, service reliability

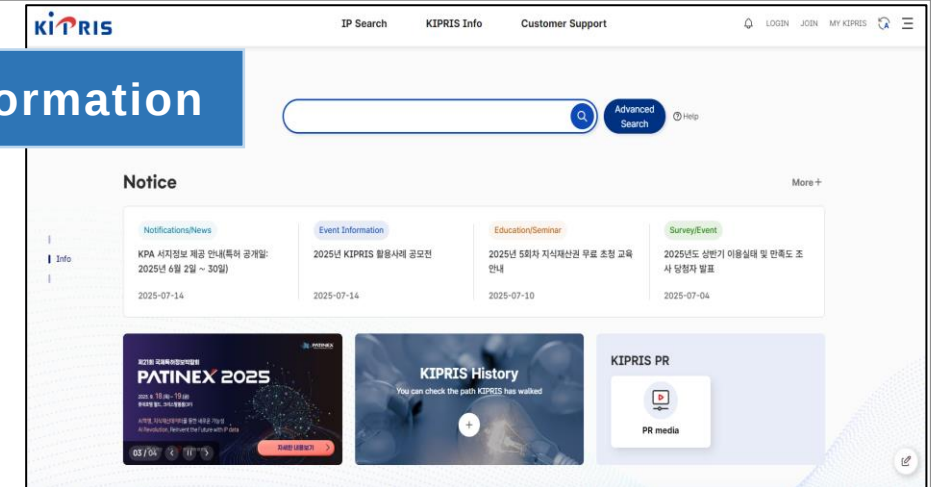
- 1 Improvement of 'My-folder' function
- 2 Enhancing online download
- 3 Strengthened of support
- 4 Focusing of service reliability

Main Improvement (1/7)

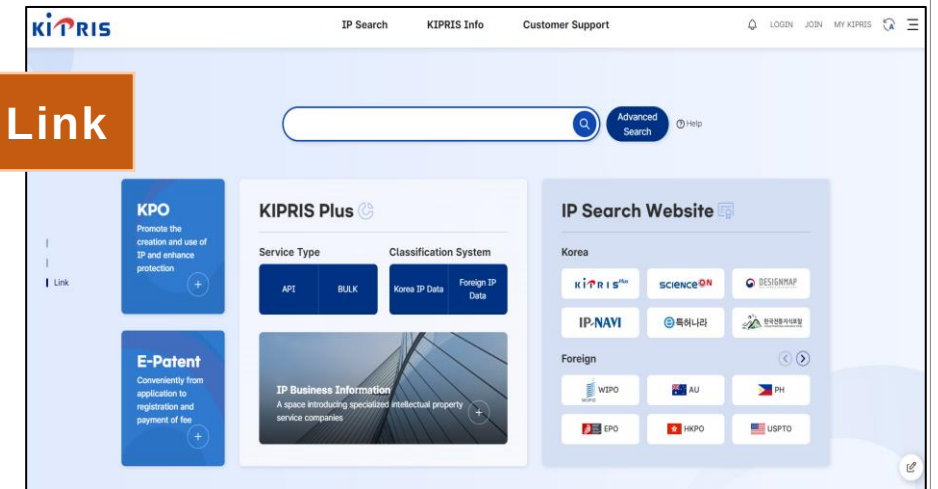
1. Search



2. Information



3. Link



Main Improvement (2/7)

The screenshot displays the KIPRIS patent search interface. At the top, there are navigation links for 'IP Search', 'KIPRIS Info', and 'Customer Support'. A search bar contains the query 'AI SYSTEM'. Below the search bar, a summary of search results is shown: Patent - Utility 1,218,756, Design 878, Trademark 28,819, Judgment 65, and Other 40,954. The results are filtered by 'Korea' (209,292), 'KPA' (85,399), 'Foreign(English)' (765,515), and 'Foreign(Korean)' (158,550). The main search results section shows two results. The first result is titled '[1] AIS를 이용한 선박 모니터링 시스템 및 영상 분석 서버 (SHIP MONITORING SYSTEM AND IMAGE ANALYSIS SERVER USING AIS)' with IPC class G08G3/02 and CPC class G01B11/0608. The second result is titled '[2] AIS 데이터 및 조위관측소 정보를 이용한 항로예측 시스템 및 방법 (System and method for forecasting trajectory based on AIS data and tide...)' with IPC class G01C21/20 and CPC class B63B49/00. On the right side, a detailed view of the first result is shown, including a table of IPC and CPC classifications.

My Search Query | Query Suggestion | ☐ Search within Results | AI SYSTEM | Advanced Search | Search Assistance | Tooltip

Patent - Utility 1,218,756 | Design 878 | Trademark 28,819 | Judgment 65 | Other 40,954

☒ Korea 209,292 | ☐ KPA 85,399 | ☐ Foreign(English) 765,515 | ☐ Foreign(Korean) 158,550

AI SYSTEM was found a total of **209,292** results

Classification Statistics | Download | Print | Folder | Info

☐ ☒ ☐ ☐ Basic sort | Descending | 30 items per page | apply

Registered [1] AIS를 이용한 선박 모니터링 시스템 및 영상 분석 서버 (SHIP MONITORING SYSTEM AND IMAGE ANALYSIS SERVER USING AIS)

IPC : G08G3/02 | CPC : G01B11/0608

Application No.(Date) : 102024012534... Applicant : 주식회사 아이티유

Rights Holder(Current) : 주식회사 아이티유 Backward Citation Count :

실시예에 따른 AIS(Automatic Identification System)를 이용한 선박 모니터링 시스템은 교량 및 선박이 존재하는 해수면을 모니터링 하는 복수개의 CCTV; 상기 CCTV로부터 해수면...

Registered [2] AIS 데이터 및 조위관측소 정보를 이용한 항로예측 시스템 및 방법 (System and method for forecasting trajectory based on AIS data and tide...)

IPC : G01C21/20 | CPC : B63B49/00

Details | Publ. Full Text | Registr. Details | Administrative | Copy DOI | QR Code

Details

IPC	G08G 3/02(2006.01.01) G06V 20/40(2022.01.01) G06T 7/00(2017.01.01) G06T 5/90(2024.01.01) G06V 10/70(2022.01.01) G01B 11/06(2006.01.01) H04N 7/18(2023.01.01) H04N 23/695(2023.01.01)
CPC	G08G 3/02(2013.01) G06V 20/41(2022.01) G06T 7/0004(2013.01) G06T 5/90(2024.01) G06V 10/70(2023.08)

Image close | All images View

Representative View | Download | Share | Edit

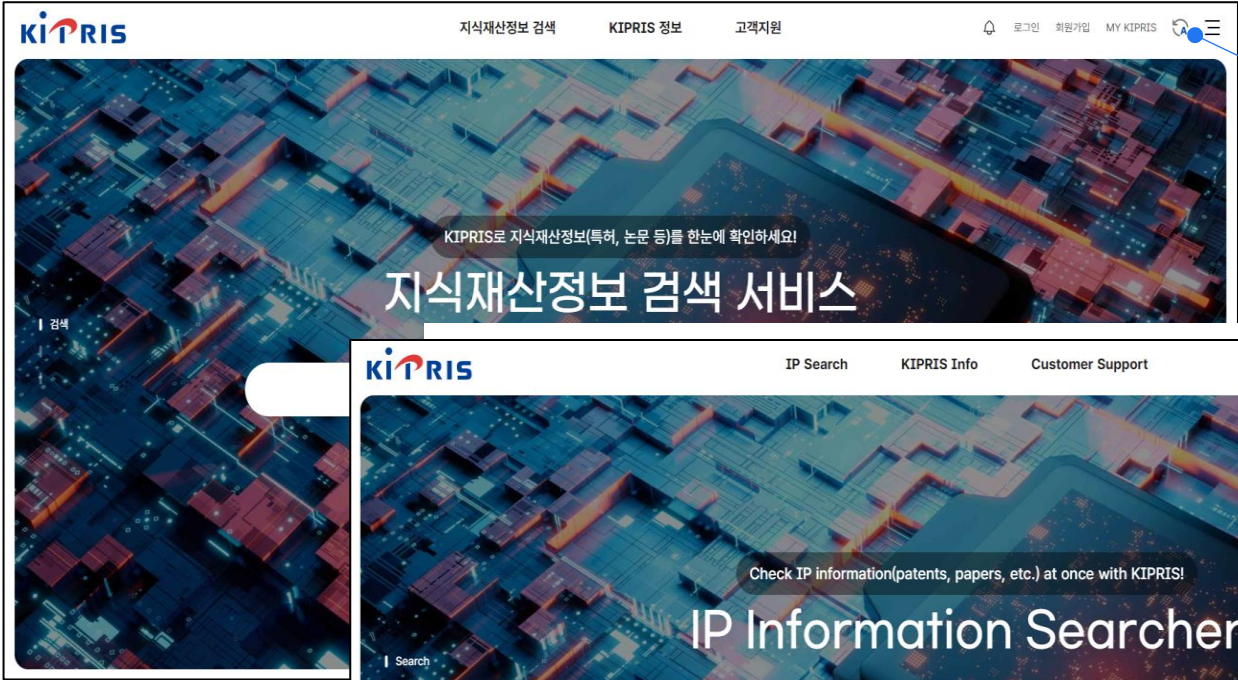
Search Results

General and detailed searches

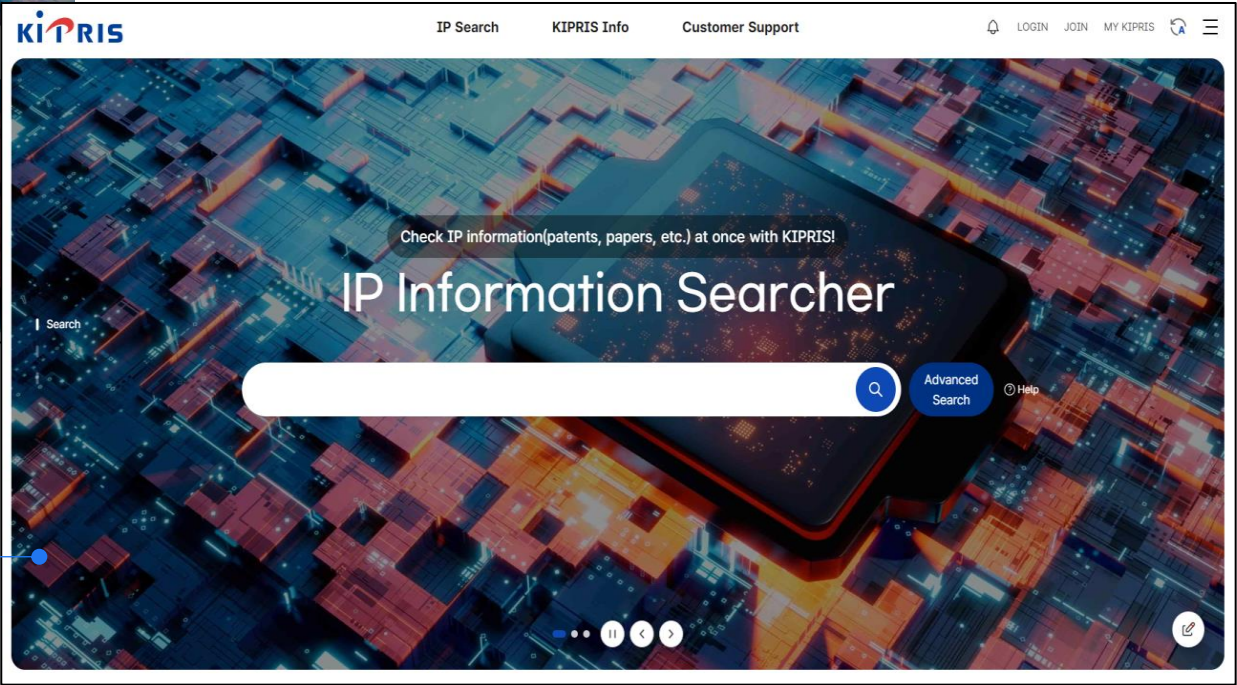
Select Search Results Rights

View Details

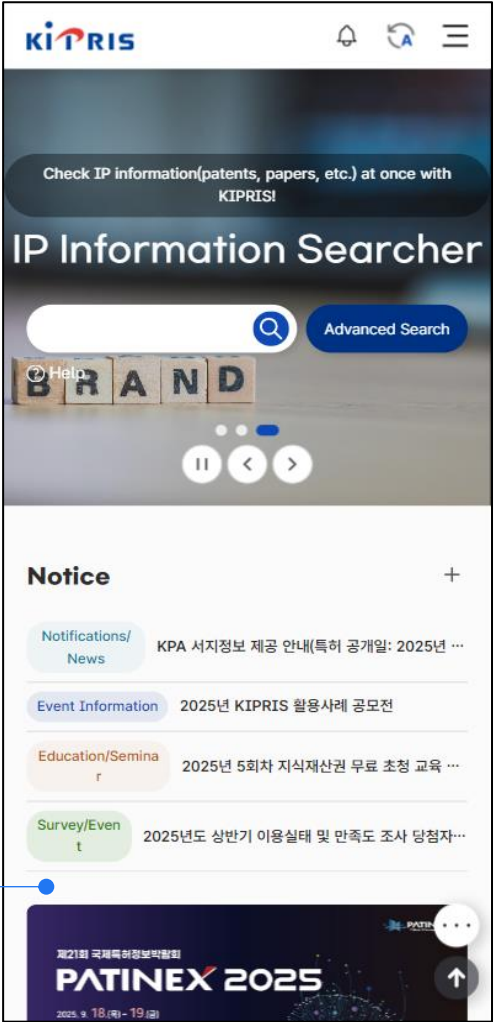
Main Improvement (3/7)



Korean-English conversion



English Menu



Responsive web (mobile)

Main Improvement (4/7)

RAILROAD CAR TRUCK DAMPER WEDGE FITTINGS

철도객차 트럭 댐퍼 웨지 피팅

Details

Unexam. Full Text

Administrative

Machine Translation

1 / 28

Image close

(19) United States

(12) Patent Application Publication

(10) Pub. No.: Hematian

(43) Pub. Date

(54) RAILROAD CAR TRUCK DAMPER WEDGE FITTINGS

(52) U.S. CL CPC

(71) Applicant: NATIONAL STEEL CAR LIMITED, Hamilton (CA)

(72) Inventor: Jamal Hematian, Burlington (CA)

(21) Appl. No.: 17/887,668

(22) Filed: Aug. 15, 2022

Related U.S. Application Data

(63) Continuation of application No. 16/660,582, filed on Oct. 22, 2019, now Pat. No. 11,414,107.

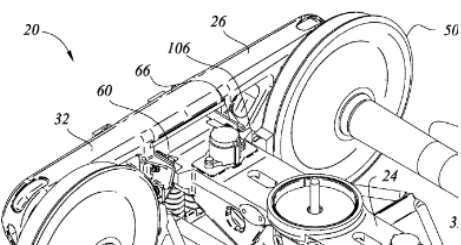
Publication Classification

(51) Int. Cl. B61F 5/12 (2006.01) B61F 5/06 (2006.01)

(57) A damper wedge for a ra member that rides on t column of the railroad c surface; and a spring seat railroad car truck. The in primary angle alpha, and seat has an axial center surface has a curvature. The damper wedge has a non-metallic wear surface terline. The axial cente wedge surface at an inter contact patch. The wori region of the contact 7 downslope of the interse

US 2022038

Representative Drawing



NMT
(kor-eng)

kiPRIS 특허 · 실용신안 번역

원문+번역문 보기 원문+번역문(PDF) 보기 번역문 보기 원문 보기

※ 브라우저 자체 번역은 "원문보기"를 이용하시면 편리하게 이용하실 수 있습니다.

서지정보 요약 대표도면 청구항 명세서

· Scope of Claims

[01-44]

1.-44. (canceled)

[00045]

45. A damper wedge for a railroad car truck, said damper wedge being formed to co-operate with a corresponding bolster pocket, wherein said damper wedge comprises: a friction member that, in use, movably engages a wear surface of a side frame column of the railroad car truck, said friction member having a non-metallic wear surface; a spring seat that, in use, engages a spring of the railroad car truck, said spring seat having an axial centerline; and an inclined damper wedge surface, said inclined damper wedge surface having a primary damper wedge angle, and a secondary damper wedge angle; said inclined damper wedge surface having a compound curvature;

said inclined damper wedge surface being a machined surface;

in operation, said curvature of said inclined damper wedge surface engaging the bolster pocket in rolling point contact;

said curvature of said inclined damper wedge surface having a working point that engages the bolster pocket when the railroad car truck is at rest;

said damper wedge having a datum plane that is normal to said non-metallic wear surface and that contains said axial centerline of said spring seat, said axial centerline meeting said inclined damper wedge surface at an intersection point; and

said working point is located on said inclined damper wedge surface downslope relative to said intersection point; and said working point is located at a center of a contact patch, said contact patch having a radius of less than 1.5 inches.

[00046]

46. The damper wedge of claim 45 wherein said inclined damper wedge surface is a spherical surface.

· 청구의 범위

[01-44]

1. -4 4. (c 에이스 리드)

[00045]

45. 철도 차량 트럭용 댐퍼 웨지로서, 상기 댐퍼 웨지는 대응하는 볼스터 포켓과 함께 작동하도록 형성되고, 상기 댐퍼 웨지는, 사용시 철도 차량 트럭의 측면 프레임 컬럼의 마모 표면과 이동 가능하게 맞물리는 마찰 부재를 포함하고, 상기 마찰 부재는 비-금속 마모 표면; 사용 중에, 철도 차량 트럭의 스프링과 맞물리는 스프링 시트로서, 상기 스프링 시트는 축방향 중심선을 갖는, 스프링 시트 및 1차 댐퍼 웨지 각도 및 2차 댐퍼 웨지 각도를 갖는 경사 댐퍼 웨지 표면을 포함한다. 복합 곡률을 갖는 상기 경사진 댐퍼 웨지 표면;

경사진 댐퍼 웨지 표면이 기계가공된 표면인 것;

작동시, 롤링 포인트 접촉시 볼스터 포켓과 맞물리는 상기 경사진 댐퍼 웨지 표면의 곡률;

철도 차량 트럭이 정지할 때 볼스터 포켓과 맞물리는 작업점을 갖는 상기 경사진 댐퍼 웨지 표면의 곡률

상기 댐퍼 웨지는 상기 비-금속 마모 표면에 수직이고 상기 스프링 시트의 상기 축 방향 중심선을 포함하는 기준 평면을 가지며, 상기 축 방향 중심선은 교차점에서 상기 경사진 댐퍼 웨지 표면과 만난다 그리고;

상기 작업점은 상기 교차점에 대해 상기 경사진 댐퍼 웨지 표면 다운로프 상에 위치된다 상기 작업점은 접촉 패치의 중심에 위치되고, 상기 접촉 패치는 1.5 인치 미만의 반경을 갖는다.

[00046]

46. 제45항에 있어서, 상기 경사진 댐퍼 웨지 표면은 구형 표면인, 댐퍼 웨지.

11

Main Improvement (5/7)

AI SYSTEM was found a total of **209,292** results

Classification Statistics

Basic sort Descending 30 items per pag apply

Registered [1] AIS를 이용한 선박 모니터링 시스템 및 영상 분석 서버 (SHIP MONITORING SYSTEM AND IMAGE ANALYSIS SERVER USING AIS)

IPC : G08G3/02 CPC : G01B11/0608

Application No.(Date) : 102024012534... Applicant : 주식회사 아이티유

Rights Holder(Current) : 주식회사 아이티유 Backward Citation Count :

실시예에 따른 AIS(Automatic Identification System)를 이용한 선박 모니터링 시스템은 교량 및 선박이 존재하는 해수면을 모니터링 하는 복수개의 CCTV; 상기 CCTV로부터 해수면...

Registered [2] AIS 데이터 및 조위관측소 정보를 이용한 항로예측 시스템 및 방법(System and method for forecasting trajectory based on AIS data and tide...)

IPC : G01C21/20 CPC : B63B49/00

Application No.(Date) : 102024017002... Applicant : 한국해양과학기술원

Rights Holder(Current) : 한국해양과학기술기... Backward Citation Count :

본 발명은 선박 자동식별 시스템(Automatic Identification System; AIS)의 경로예측 (trajectory forecasting) 정확도를 개선하기 위한 장치 및 방법에 관한 것으로, 본 발명에...

Registered [3] 온라인 사전 인수심사 기능을 탑재한 AI 비서 시스템 및 그 방법(AI SECRETARY SYSTEM EQUIPPED WITH ONLINE PRE-UNDERWRITING FUNCTI...)

IPC : G06Q40/08 CPC : G06Q10/10

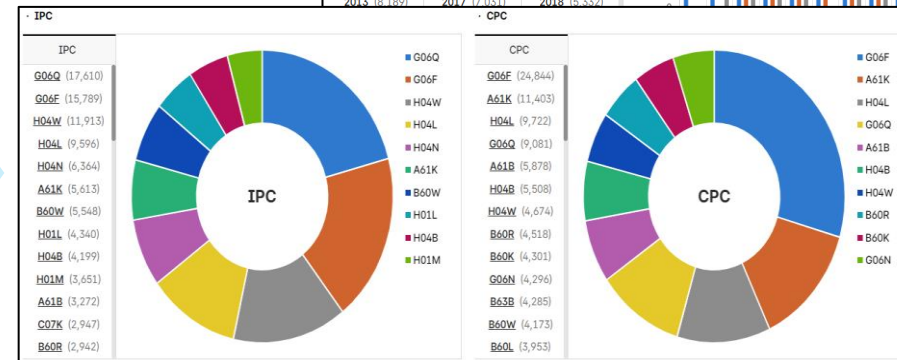
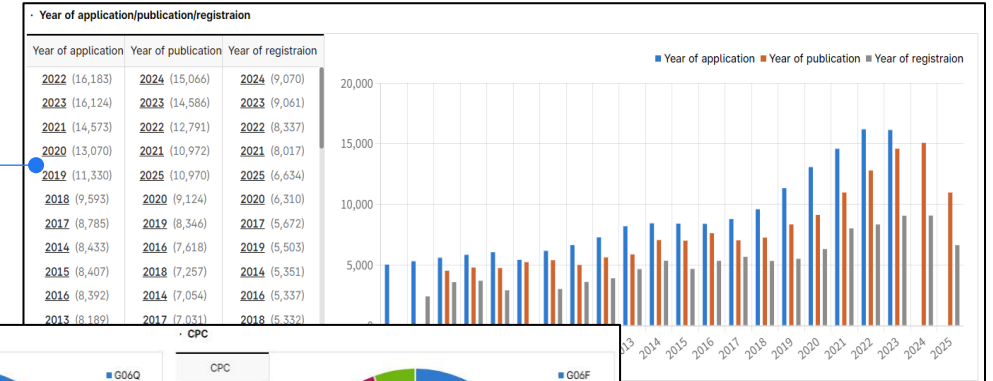
Application No.(Date) : 102023009412... Applicant : 디비슨해보험 주식회사

Rights Holder(Current) : 디비슨해보험 주... Backward Citation Count : 1

본 발명은 온라인 사전 인수심사 기능을 탑재한 AI 비서 시스템 및 온라인 사전 인수심사 방법에 관한 것으로, 해결하고자 하는 과제는 빅데이터와 인공지능 기술을 활용하여 설계사가 보유한...

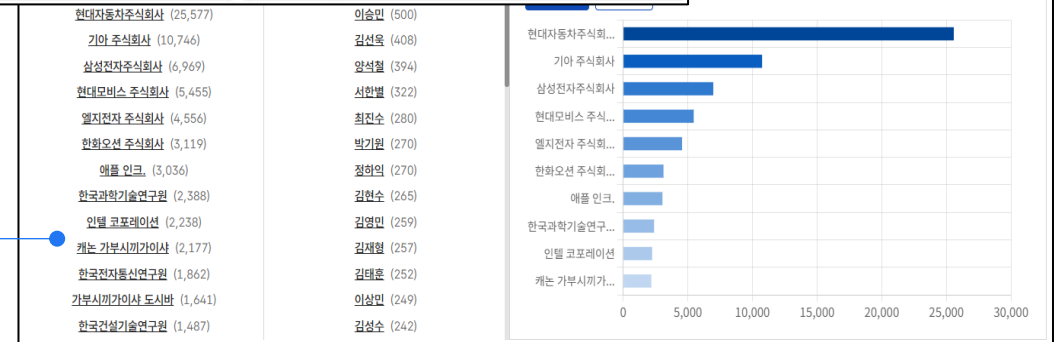
Visualize classification statistics

Application/Publication/Registration Date



IPC/CPC

applicant/agent



Main Improvement (6/7)

Advanced Search

By rights

Specialized

Patent-Utility

Design

Trademark

Judgment

Other

Search Type

☐ Korea
 ☐ Foreign(english)
 ☒ Foreign(korean)
 ☐ KPA

Select Country

☒ United States of America
 ☐ Europe
 ☐ Japan

Full Text

자동차

AND

Content Search

Title of Invention(TL)

ex) phone touch screen, electronic*cash, "cellularPhone"

AND

Number

Application No.(AN)

ex)09990194

AND

Classification

IPC

ex)G06F17/60 + H04Q

AND

Name/No/Address

Applicant(AP)

ex)Robert, Blizzard Corporation

AND

Set Search Fields

Date

Priority info

Reset

Search

Select Foreign(korean)

Input Korean keywords

※ Construct search data after translating patents in Japanese and English into Korean

KIPRIS

IP Search

KIPRIS Info

Customer Support

LOGIN

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My Search Query

Query Suggestion

Search within Results

자동차

Advanced Search

Search Assistance

Tooltip

Patent · Utility 1,389,654

Design

Trademark

Judgment

Other

Korea

KPA

Foreign(English)

Foreign(Korean) 1,389,654

자동차 was found a total of 1,389,654 results

Classification Statistics

Descending

30 items per page

apply

[1] 감식력 조정식 자동차 고조정장치

IPC : B60G17/08

Application No.(Date) : 57167500 (1982.09.28)

CPC : B60G17/015

Applicant : NISSAN MOTOR CO LTD

[2] 자동차의 차체 및 그 조립 방법

IPC : B62D24/00

Application No.(Date) : 03127775 (1991.05.30)

CPC :

Applicant : MAZDA MOTOR CORP

[3] 자동차 성형 카세트 및 그 성형형

IPC : B60N3/04

Application No.(Date) : 02095900 (1990.04.10)

CPC :

Applicant : KOTBUKIYA FURONTE KK

[4] 자동차의 라이트 방향 변동 장치

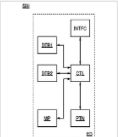
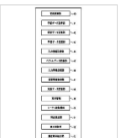
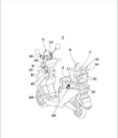
IPC : B60Q1/12

Application No.(Date) : 62225650 (1987.09.08)

CPC :

Applicant : TANADA KATSUNORI

Main Improvement (7/7)

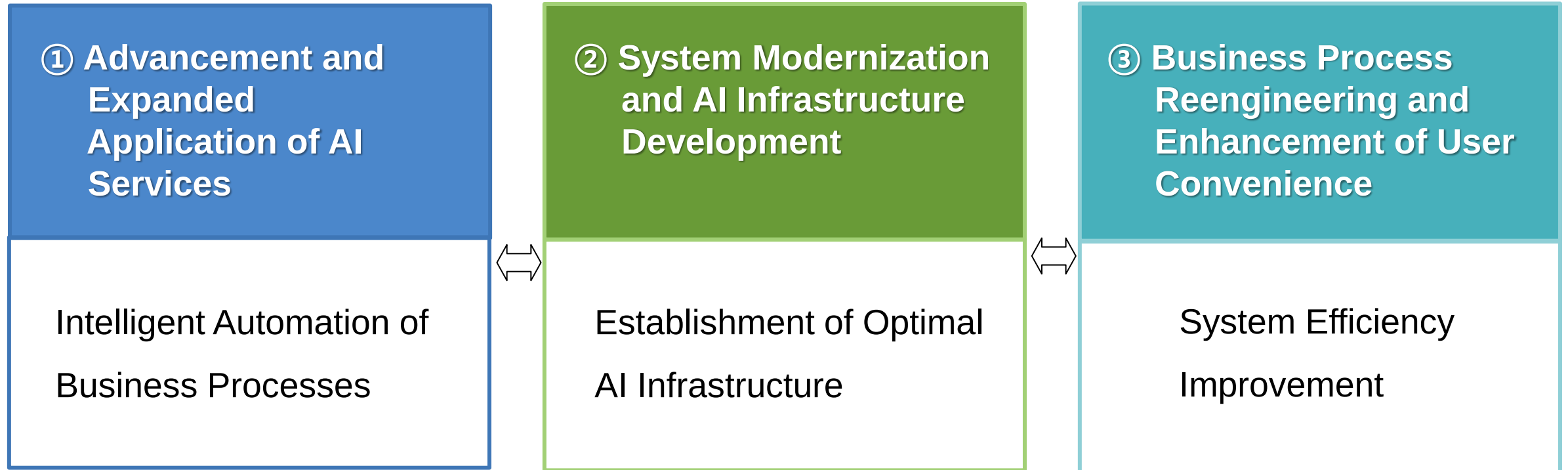
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lkm6943@gmail.com's My Folder. 온라인다운로드 (2942) design (3002) 디자인테스트 (38) 상표테스트 (19) 123 (1) PATENT JP (30) New Folder [PATENT JP] contains the search result saved in. Clicking on the result will take you to the detailed view. Total of30saved searches Patent - Utility Model(Foreign Eng) ☐  [1] AI SYSTEM IPC : G06F30/31 CPC : G06F30/27 출원번호(일자) : 36050193 (2024.03.26) 출원인 : SEMICONDUCTOR ENERGY LAB CO LTD PROBLEM TO BE SOLVED: To provide a system that creates a net list from circuit diagrams or documents indicative of circuit configurations. SOLUTION: An AI system includes a first electronic instrument. The first electronic-- ☐  [2] GENERATIVE AI MANAGEMENT SYSTEM, GENERATIVE AI MANAGEMENT METHOD, AND GENERATIVE AI MANAGEMENT PROGRAM IPC : G06N20/00 CPC : 출원번호(일자) : 35106529 (2023.06.28) 출원인 : EXT INC PROBLEM TO BE SOLVED: To facilitate, when a generative AI being used is changed to another generative AI on the way, causing another generative AI after the change to take over an experience of conversations with the-- ☐  [3] AI ARTIFICIAL INTELLIGENCE CARRIER AND CONTROL SYSTEM IPC : G08G1/00 CPC : B62J43/30 출원번호(일자) : 36072782 (2024.04.26) 출원인 : POWERSHOW LTD PROBLEM TO BE SOLVED: To provide an AI artificial intelligence carrier and a control system which make it possible to achieve a license plate recognition and an active detection while achieving better investigation mobilitt-- ☐  [4] DOCUMENT MANAGEMENT SYSTEM AND DOCUMENT MANAGEMENT	Download Download range Current screen Selection list Specify range All Specify storage range Up to 500 records between 09:00 and 19:00 / Up to 5,000 records during other hours. Save format Excel(.xls) Save items Select All Reset 대표도면 국가 발명의 명칭 분류 등록번호 등록일자 공개번호 공개일자 공보번호 공보일자 출원번호 출원일자 출원인 우선권정보 IPC 미국분류(UPC) CPC FI F-TERM EPC 국제출원번호 국제출원일자 국제공개번호 국제공개일자 요약 대리인 발명자 청구범위 지정국 DOCDB Family번호 Download

※ Improve My Folder UI and Added download/printing function

- ※ Improve visibility of download(Result of Search) UI

KIPO's IT Strategy Plan

Preparation for the Next-Generation System



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