

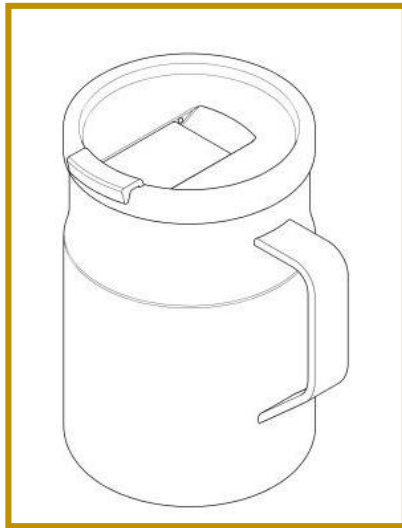
Handling and Acceptance Criteria for 3D Models

CWS/11 | December 4-8, 2023 | Geneva

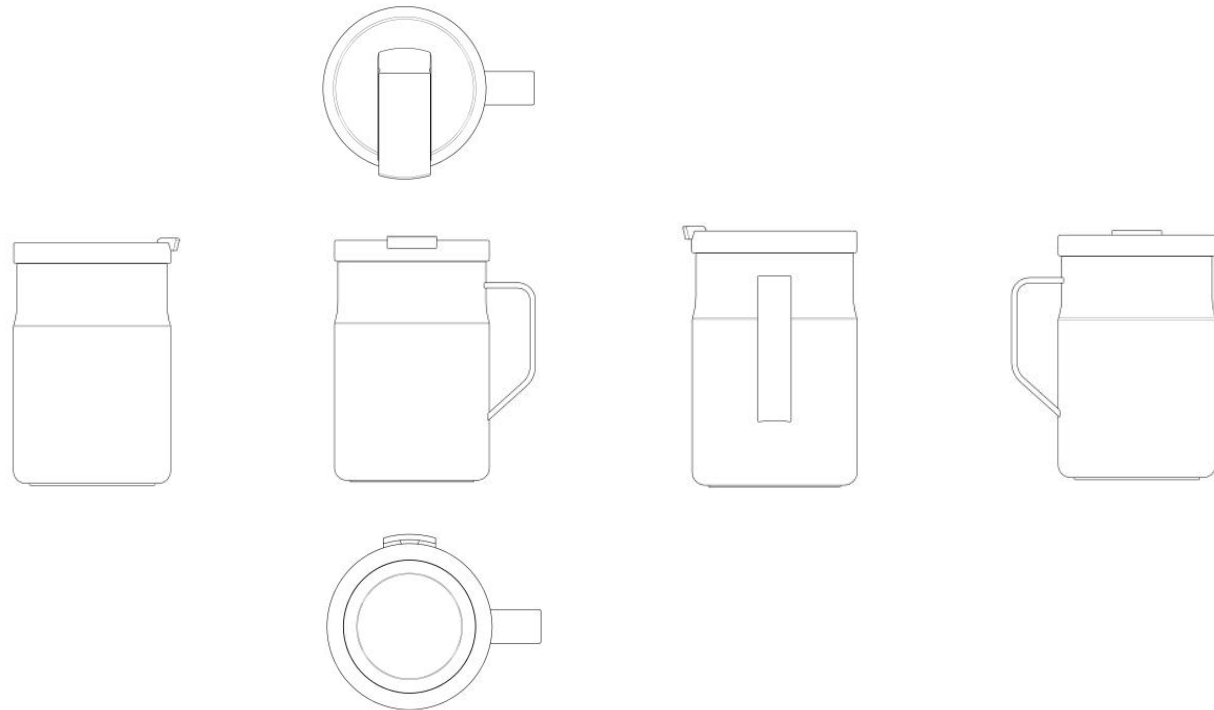
Overview (1/3)

❖ Introduction of 3D Drawing Filing System

- for the purpose of serving wider industrial demands and improving filing convenience (as of January 1, 2010)



30-1122032

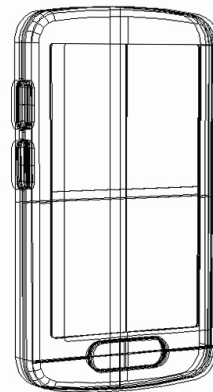


Overview (2/3)

- ❖ **Reasons for refusing registration of 3D modeling drawings:**
 - It is in a wireframe state, not a shading state, or expressed as 2D drawing
 - The overall shape of the item is not clearly shown or it is difficult to identify the item
 - When the drawing is executed, the drawing is broken or exploded
 - It is difficult to know whether it is transparent because it does not clearly express the state of transparency



Shading



Wire-frame

Overview (3/3)



“from filing to disclosure, digitally and seamlessly”

“convenient, efficient and user-friendly”

Application and Examination Procedure

❖ KIPOnet (filing) → Examiner (drawing inquiry), 2D Drawing extraction → Disclosure of Registration Notice

The screenshot displays the KIPOnet application interface. On the left, there is a sidebar with navigation options like '특허로' (Patent) and 'My특허로' (My Patent). The main area shows a 3D model of a ring. Below the model, there are tabs for '도면 1.1' (Drawing 1.1), '추출도면 1.1_1' (Extracted Drawing 1.1_1), and '추출도면 1.1_2' (Extracted Drawing 1.1_2). On the right, there is a detailed view of the drawing, including a table of metadata and a 3D model of the ring.

출원사항	출원번호	30
심사구분	심사	
등록번호	30	
공개번호		
출원인	(주)	
대리인		

디자인사항	분류	B3
신분류 (주분류)	11	
물품명칭	반지	
복수디자인여부	1	
창작의 요점	본	있

출원인 정보

(19) 대한민국특허청 (KR) (46) 공고일자 2020년08월17일
 (12) 등록디자인공보 (S) (11) 등록번호 30-1082141
 (24) 등록일자 2020년08월11일

출원인 정보

(60) :
 (61) :
 (62) :
 (63) :
 (70) :
 (71) :
 (72) :
 (73) :

출원인 정보

출원인명 : 남수진
 (54) 명칭 변경

디자인 설명

종류
 제11류

디자인의 대상이 되는 물품
 반지

디자인의 설명

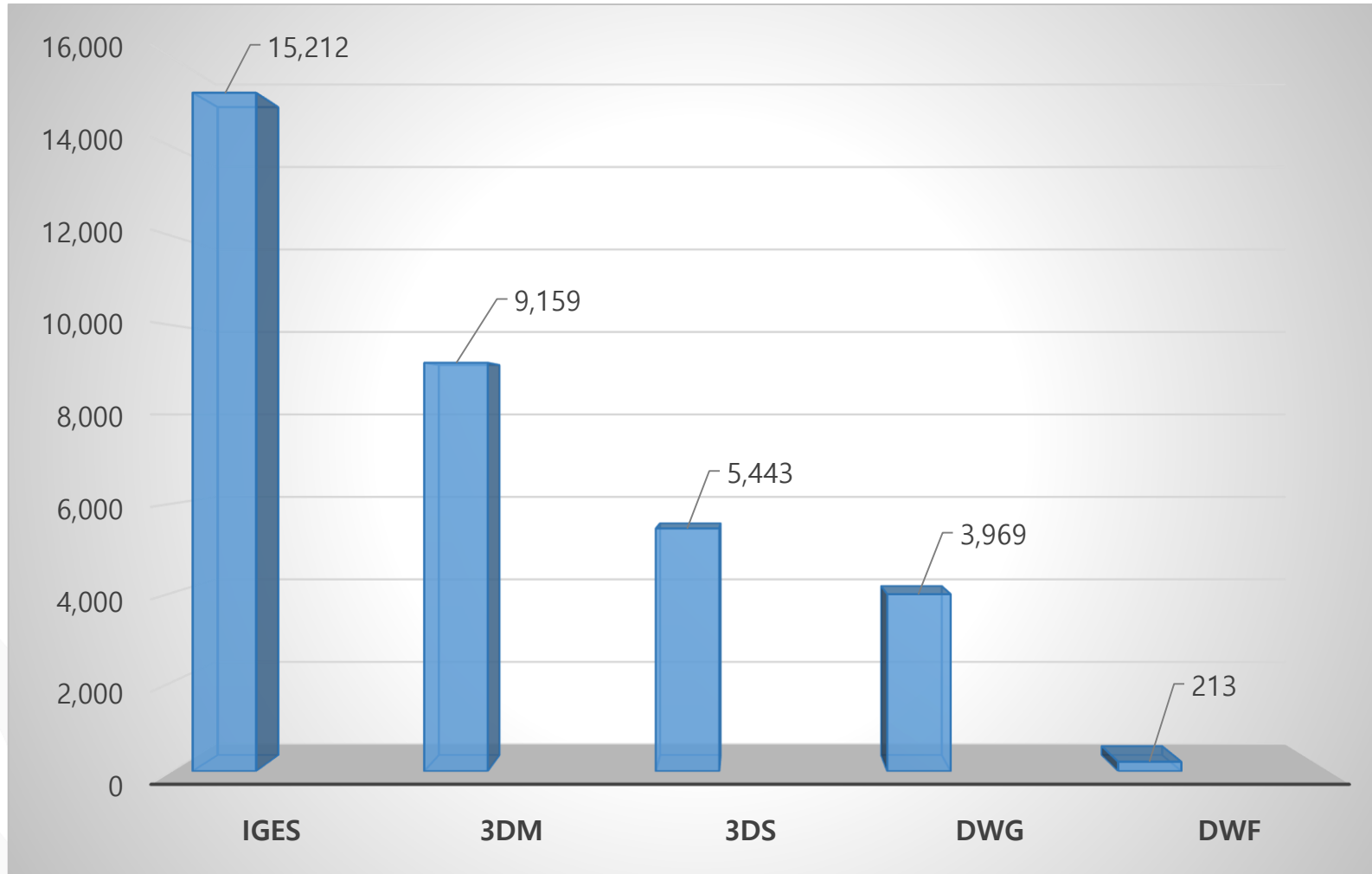
1. 제1도는 앞, 백면, 손, 신구, 띠부분, 링스면 등 기타 관측경로로 이루어져 있는 반지임.
 2. 뒷면 도면은 3D 도면임.

디자인 창작 내용의 요점

본 디자인은 서로 어우러지는 조형물에서 영감을 받은 디자인으로써, 윤곽적리플 주석 불 처리를 한 제인과 띠 두리에 컷팅 처리할 수 있는 제인이 반복적으로 서로 맞물리게 전체적인 조화를 이루는 점을 창작내용의 요점으 로 함.

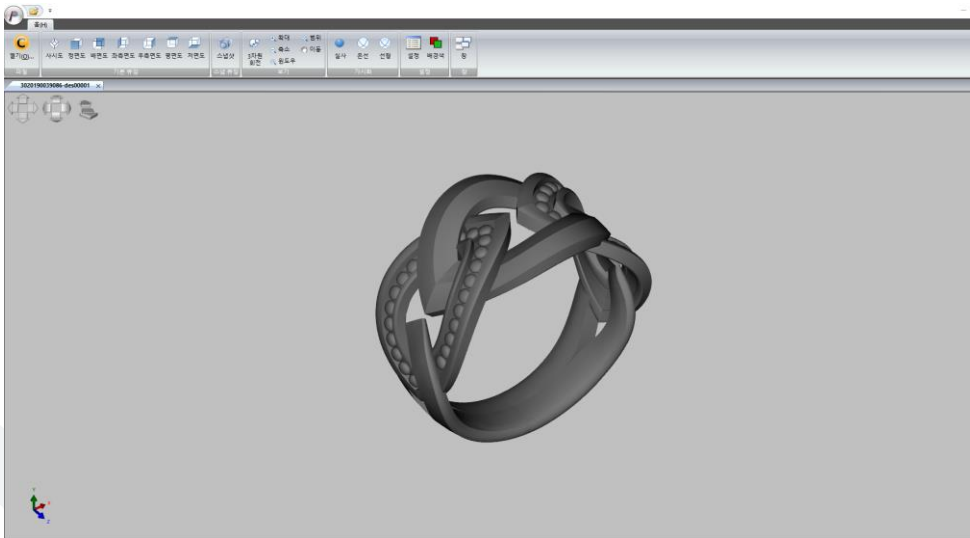
도면 1.1
 3D 도면 파일 첨부

Application Status by Format (2013~2022)

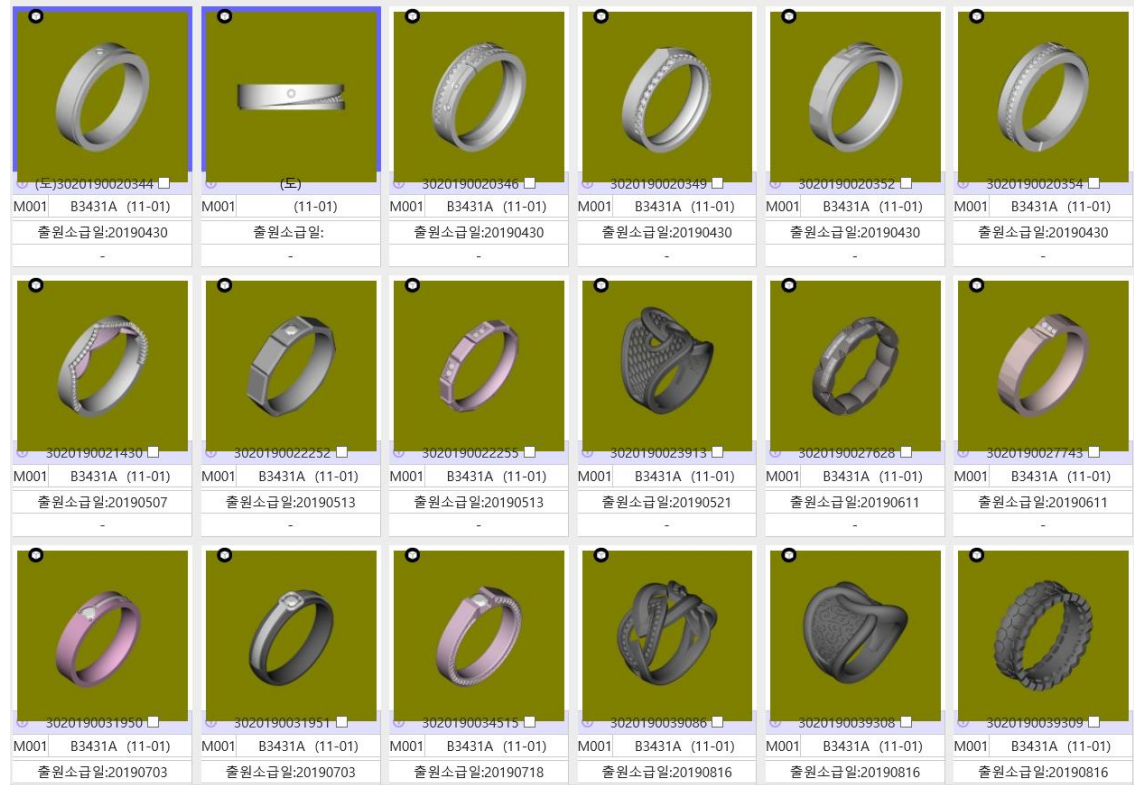


3D Application Drawing Examination

❖ CADian Viewer is used for drawing execution.



30-1063141



Future Plans (1/2)

- ❖ **WIPO CWS enacted standards for 3D drawing requirements (in 2021).**
- ❖ **KIPO plans to change it to a universal format according to WIPO CWS's recommendation ST.91 (by 2023).**

Future Plans (2/2)

❖ Format Change (2023)

Change from old format IGES, 3DM, 3DS, DWG, DWF to IGES, OBJ, STEP, STL

- Exclude U3D files

Current
IGES
3DM
3DS
DWG
DWF



Proposed changes	
IGES	
-	
Integrated	OBJ
Add new	STEP
	STL

Thank you!