## Patent Drawing Standards and Best Practices

Use this streamlined checklist to ensure your patent illustrations meet official requirements and examiner expectations.

General Requirements	<b>Reference Characters and Labeling</b>
Use white, smooth, non-glossy, durable paper (U.S. Letter or A4).	Use plain, legible reference characters; no brackets/parentheses.
Maintain margins: 1" top/sides, 3/8" bottom.	Maintain consistent labeling across all views.
All lines must be solid black, sharp, and uniform.	Leader lines must point clearly to features.
Use India ink or high-res digital equivalents.	Text must be at least 0.32 cm (1/8 inch) tall.
	Keep annotations horizontal and legible.
Line Standards and Visual Conventions	Ensure legibility at 2/3 size reduction.
Thick lines for visible edges (0.4–0.6 mm).	<b>Section Views and Details</b>
Medium lines for dimensions ( $\approx$ 0.3 mm).	Use oblique hatching for cut surfaces.
Thin lines for hatching, centers,	Apply unique hatch patterns per component.
hidden edges (≈0.2 mm). ☐ Use dashed lines for hidden edges.	Match section indicators to their figures (e.g., Fig. 2A).
Centerlines: alternating long/short dashes.	Label and reference all detail views (e.g., "Detail A").
Break lines: zigzag (metal), wavy (non-metal).	Zoomed views must include readable
Symbols must follow industry standards (e.g., 37 CFR 1.84).	scale/magnification labels.
View Selection and Layout	Legal Compliance
Include essential views: front, side, top, rear,	Show all claimed features clearly.
isometric.	Confirm clarity when reduced to 2/3 size.
Use exploded views when showing part relationships.	Follow all rules in 37 CFR 1.84 or equivalent.
Number figures sequentially (e.g., Fig. 1, Fig. 2).	Ensure suitability for reproduction and archiving.
Show section cuts with labeled arrows.	
Keep hatching consistent across views.	
Avoid scale indicators unless required; preserve accurate proportions.	

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