#### UNITED STATES PATENT AND TRADEMARK OFFICE



Karen M. Young Director Technology Center 2900 August 5, 2021 Patent Public Advisory Committee quarterly meeting

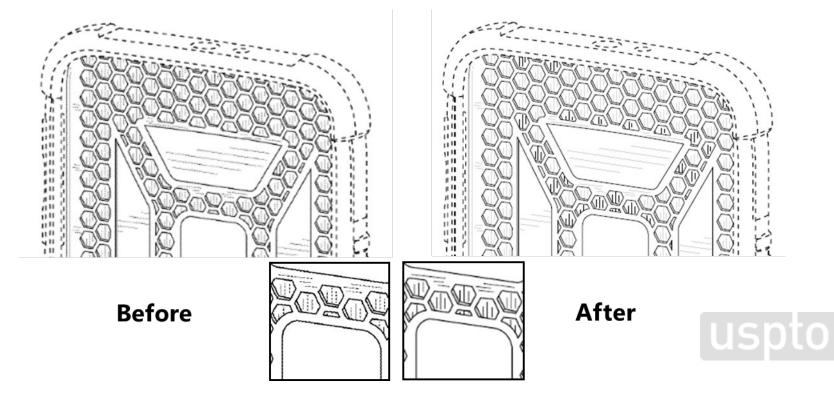
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- Improvements implemented in 2016
  - The USPTO received feedback that the images published as part of design patent grants were degraded compared to the images that applicants provided to the USPTO with initial filings.
  - After investigating this issue, the USPTO identified a specific conversion process that was mainly responsible for the degraded quality of the images.

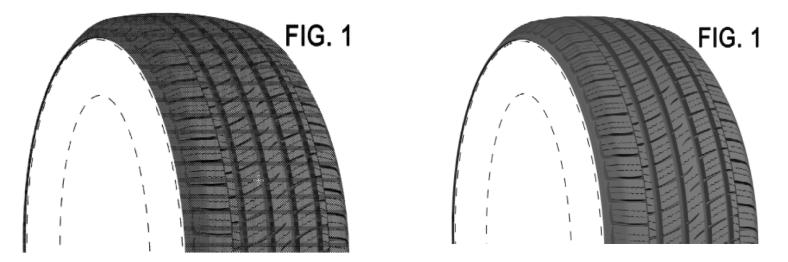
- Improvements implemented in 2016 continued
  - USPTO moved to preserving vector based drawings submitted by applicants in .pdf.
  - These .pdf drawings are stored and displayed in the Supplemental Complex Repository for Examiners (SCORE).
  - SCORE drawings are used in
    - the printed design patent and
    - loaded into the supplemental content of the electronic files of our patent application files to allow external stakeholders to download an exact, clear copy of the patent grant images.



• Improvements implemented in 2016 continued



• Improvements implemented in 2016 continued

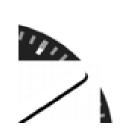


#### Before



- The USPTO has an ongoing effort to continue to improve the quality of published drawings.
- Noted issues include the presence of "invisible" boxes:





As filed

As published



Data capture process reveals "invisible" box



Noted issues include the presence of layers:



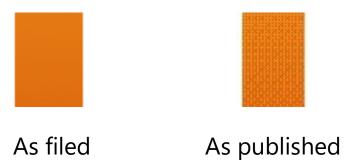
As filed

As published

Data capture process reveals translucent layer



Noted issues include pixelation





• Noted issues include gaps in lines:



As filed

As published



- The USPTO is committed to continuing to improve the quality of published drawings.
- Items to note:
  - When drawings are submitted as vector based drawings they are treated as vector based throughout the process.



#### • Items to note continued:

- However, sometimes the vector drawings have embedded elements that are raster based.
  - When this occurs, the entire drawing has to be processed as a raster image.

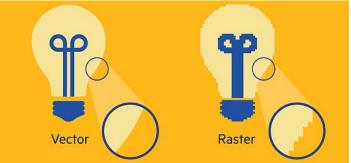


Image from Holland Print House



- Items to note continued:
  - If there are any 'hidden' objects in the figures, they can be revealed during processing with unexpected outcomes for the final patent drawings.
  - The drawings should not contain any layering or hidden objects.
  - All drawings should be flattened before submission.



- USPTO staff has been trained to better detect unexpected outcomes in the final drawings.
- Where possible, several IT and software improvements have been implemented to correct some of the types of output errors that have been noted.
- An update was made mid-March.
- Further solutions are currently being explored and will be implemented as soon feasible.





# Thank you!

#### Karen M. Young

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