USPTO Object Detection

End Goal

Create an intuitive user-interface to allow the layman to be able to more readily work with patent data.

Goal for this capstone

Create the first one or two phases on the overall project.
    - Create and object detector to recognize patent images.

Some tools

tensorflow==1.13.1
six==1.12.0
Pillow==6.0.0
numpy==1.16.4
matplotlib==3.1.1

And much more...

Some steps

1- Collect images from USPTO website

2- Annotate the images - human trains machine

3- Split images/annotations into train/test

4- Generate TF Records - 1s & 0s

5- Setup config file - config | record | .pbtxt | steps | rate

6- Train

7- Export graph from trained model

8- Detect patent images.

FIG. 1

FIG. 2