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-Patent Attorney



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EP2889576 A1

Title/Abstract 6

The invention provides a surveying instrument capable of performing a non-prism measurement comprising a laser pointer for projecting a **laser pointer beam**, a measuring unit for emitting a distance measuring light via a telescope unit, for performing distance measurement on a measuring point by receiving a reflected light and for measuring an angle of the measuring point, an image pickup unit for acquiring an image including a target via the telescope unit, a tracking unit for emitting a tracking light via the telescope unit and for tracking the target by receiving a reflection light from the target, a driving unit for rotating the telescope unit in horizontal direction and in vertical direction and a control device for controlling the driving unit so that the reflection light of the tracking light from the target will be positioned at a predetermined position on an image pickup element of the image pickup unit, wherein an optical axis of the distance measuring light and an optical axis of the tracking light are in a known relationship and an optical axis of the **laser pointer beam** is offset from an optical axis of the tracking light by a predetermined angle.

☐ AR200152 A1
-Title/Abstract

☐ AU197361268 A1
-Title/Abstract

☐ BE806139 A
-Title/Abstract

☐ BR7308113 A0
-Title/Abstract

What is claimed is:

1. A **laser** beam manipulator device that indicates the **point** of focus of a focused **laser** beam comprising: a tube connectable at one end to a manipulatable **laser** beam conduit through which the **laser** beam passes; a beam targeting member carried by the tube at its opposite end; said beam targeting member having a tip that is approximately the same distance along the longitudinal axis of the tube as the focal **point** of the **laser** beam; and means for permitting the viewing of the area around the focal **point** while the **laser** beam manipulator device is being maneuvered by an operator.

2. A device according to claim 1 wherein said beam targeting member is in the form of an attachment attachable to and detachable from said tube.

Publication number	Publication date	Application number	Application date	Links
US10058388 BB	20180828	US20150730503	20150604	
US2002125230 AA	20020912	US20010933461	20010820	
US2010006550 AA	20100114	US20090545216	20090821	
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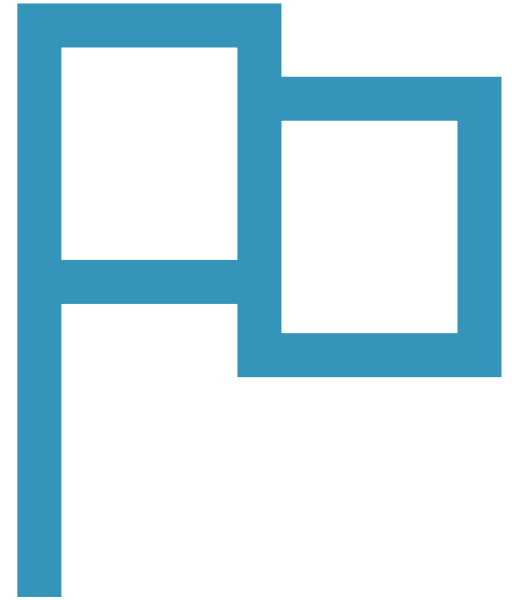
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7	ATACCN=(laser beam)	58,694	View Browse Hits Optimise Export More...
6	TAC=(laser beam OR 激光束) AND CC=(CN)	43,500	View Browse Hits Optimise Export More...
5	CC=(EP) AND TAC=((laser AND point*) OR (laser w1 beam))	42,434	View Browse Hits Optimise Export More...
4	CC=(EP)	3,302,394	View Browse Hits Optimise Export More...
3	(laser w1 point* w1 beam*)	105	View Browse Hits Optimise Export More...

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Original - CN (26)

1.一种用于加工半导体膜的激光加工装置,包括:一个激光器,用于发射具有横截面的激光束;一个纵向透镜,用于使所述激光束在宽度方向的能量分布均匀化;一个垂直方向的透镜,用于使所述激光束在通过所述纵向透镜之后只在宽度方向上会聚;一个反射镜,用于将所述激光束在通过所述纵向透镜之后引向所述半导体膜;一个会聚器件,用于使所述激光束只在宽度方向上会聚,所述会聚器件位于所述反射镜与所述半导体膜之间的一个光路上;和移动器件,用于使所述半导体膜在所述宽度方向上相对于所述激光束移动;其特征在于,所述纵向透镜的焦点与反射镜之间的间距X3、反射镜与所述会聚器件之间的间距X4、所述会聚器件与所述半导体膜之间的间距X5满足下列等式的条件: $M = (X3 \times X4) / X5$, 其中M为放大率,和 $1/F = 1/(X3 \times X4) + 1/X5$, 其中F为会聚器件的焦距。

2.如权利要求1所述的激光加工装置,其特征在于,所述半导体膜用所述会聚的激光束退火。

3.如权利要求1所述的装置,其特征在于,所述激光束是脉动的激光束,所述半导体膜用所述激光束的多个脉冲照射。

4.如权利要求1所述的装置,其特征在于,所述激光束在所述半导体膜的表面上长度等于或大于10厘米。

5.如权利要求1所述的装置,其特征在于,所述会聚器件是个柱面凸透镜。

Machine Translation - EN (25)

1 a laser processing apparatus for processing a semiconductor film, comprising: a laser for emitting a laser beam having a cross section; and a transverse fly's eye lens, for causing the laser beam the energy distribution in the width direction of the uniform; a vertical direction of the fly's eye lens; a cylindrical convex lens for converging the laser beam only in the width direction after passing through the fly-eye lens laterally; a reflecting mirror for the laser beam after passing through the cylindrical convex lens toward the semiconductor film; a converging device for converging the laser beam in the width direction only, the device is in a converging mirror and said semiconductor film between the the optical path; and moving means for moving the semiconductor film in the widthwise direction with respect to the laser beam moving; wherein X3 focal distance of the cylindrical lens and the mirror between the mirror X4 and spacing between the condensing device, the condensing device and X5 spacing between said semiconductor film satisfy the following condition equation: $M = (X3 \times X4) / X5$, where M is the magnification, and $1/F = 1/(X3 \times X4) + 1/X5$, where F is the focal length of the converging device.

2. The laser processing apparatus as claimed in claim 1, wherein, wherein said semiconductor film of said converging beam of laser annealing.

3. The apparatus according to claim 1, wherein said laser beam is a pulsed laser beam, a plurality of pulse laser beam irradiation of the semiconductor film.

4. The apparatus as in claim 1, characterized in that the length of the laser beam on the surface of the semiconductor film is equal to or greater than 10 cm.



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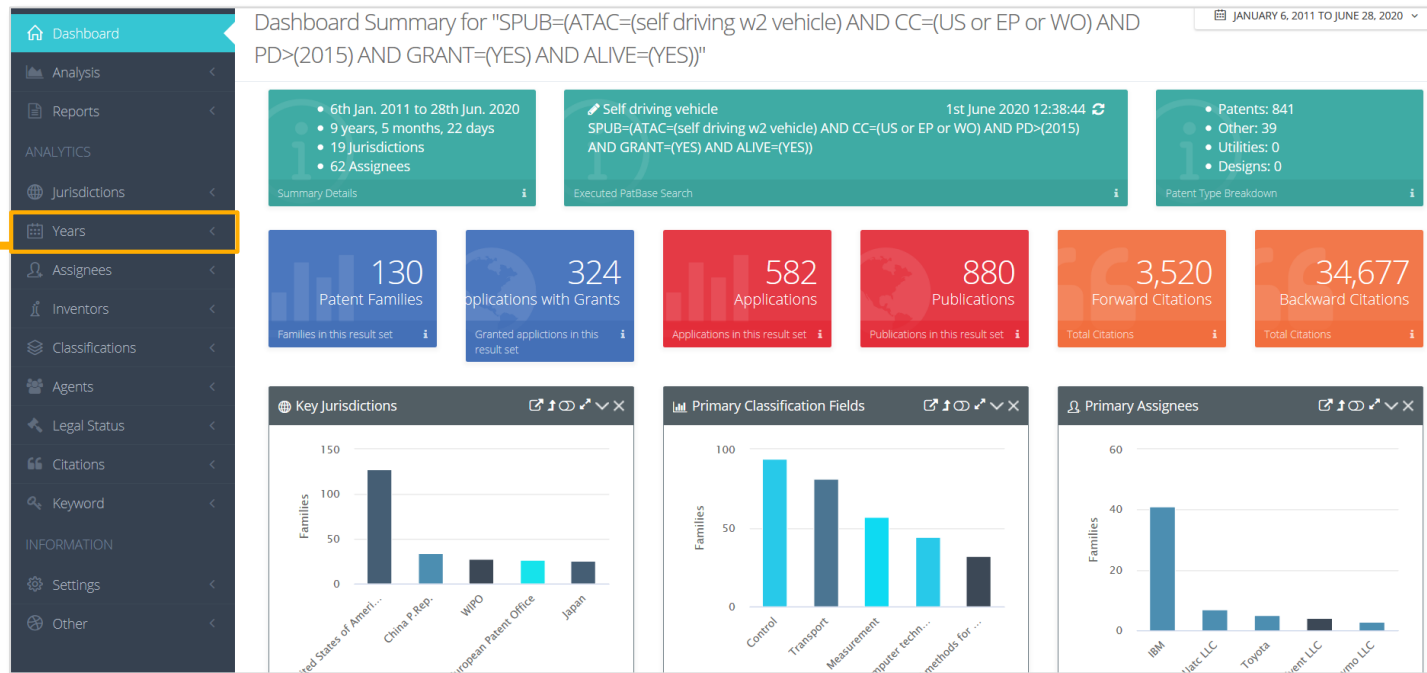
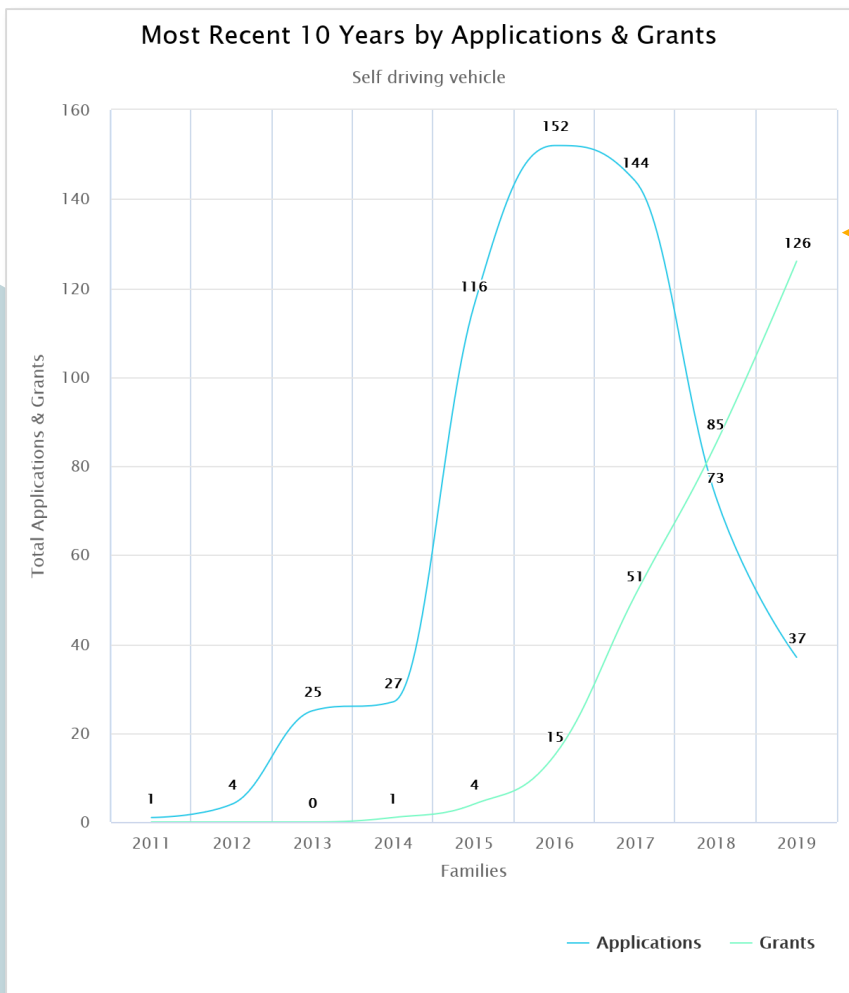
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– *Patent Specialist*



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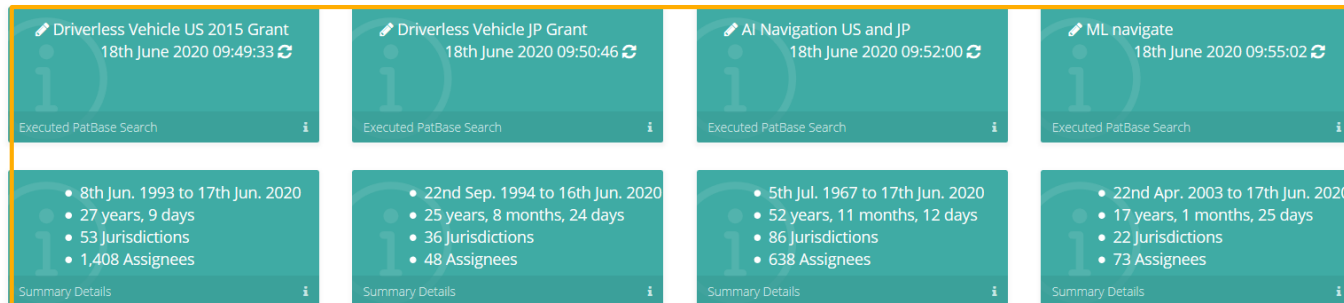
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-Patent Researcher at a Fortune 500 company



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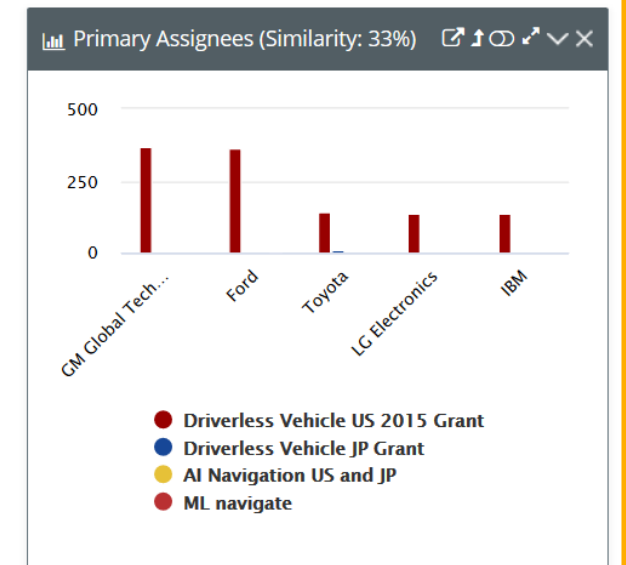
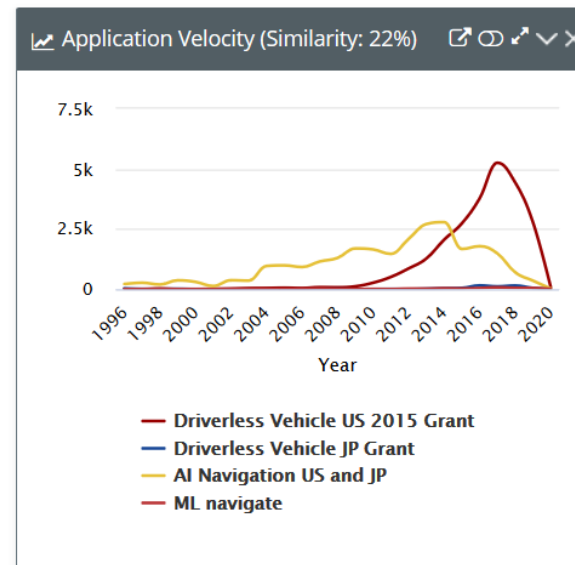
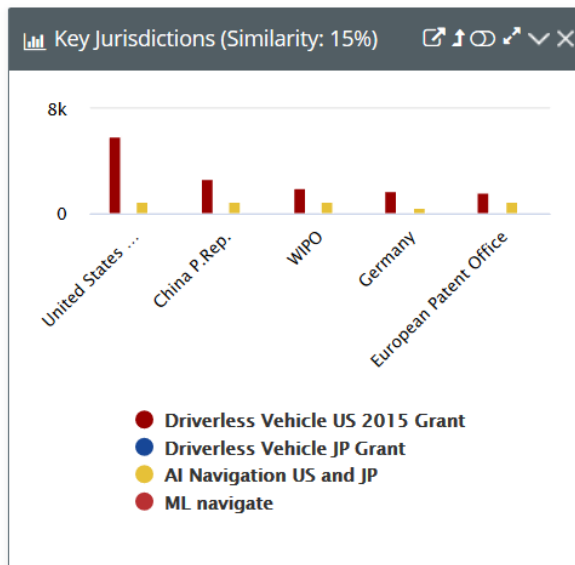
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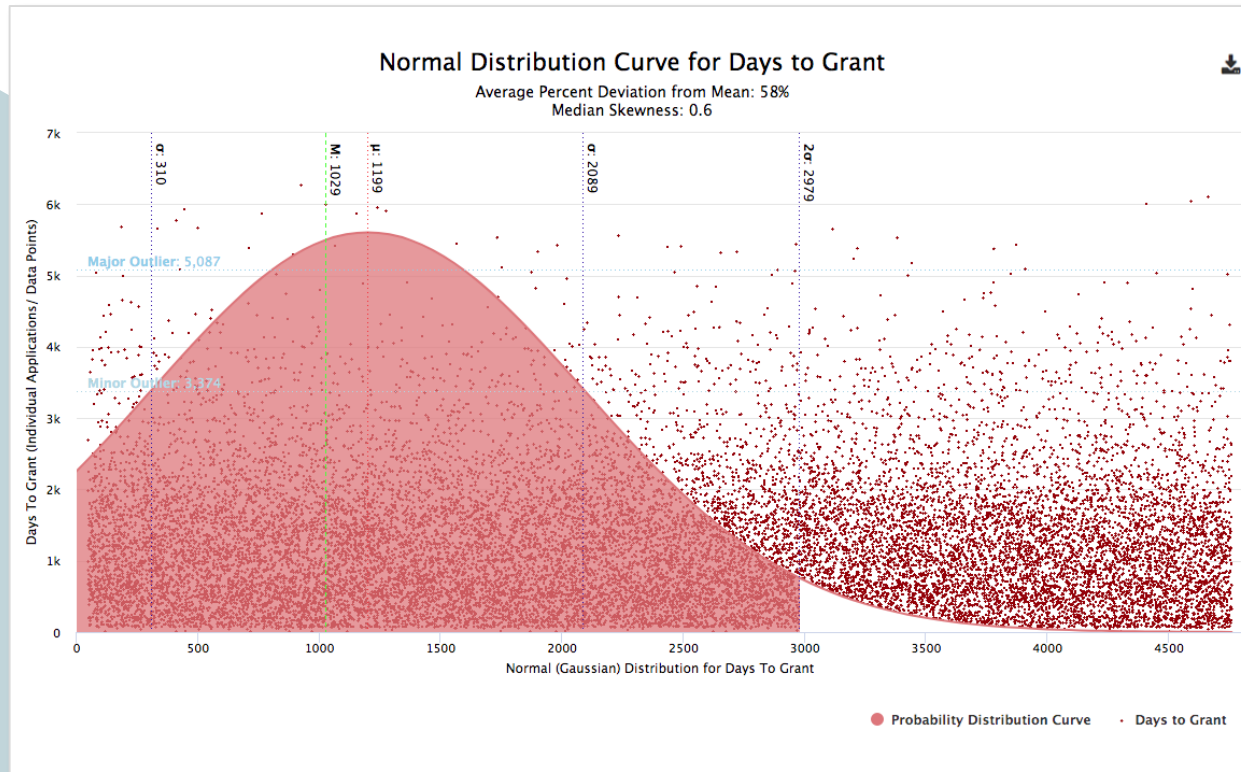


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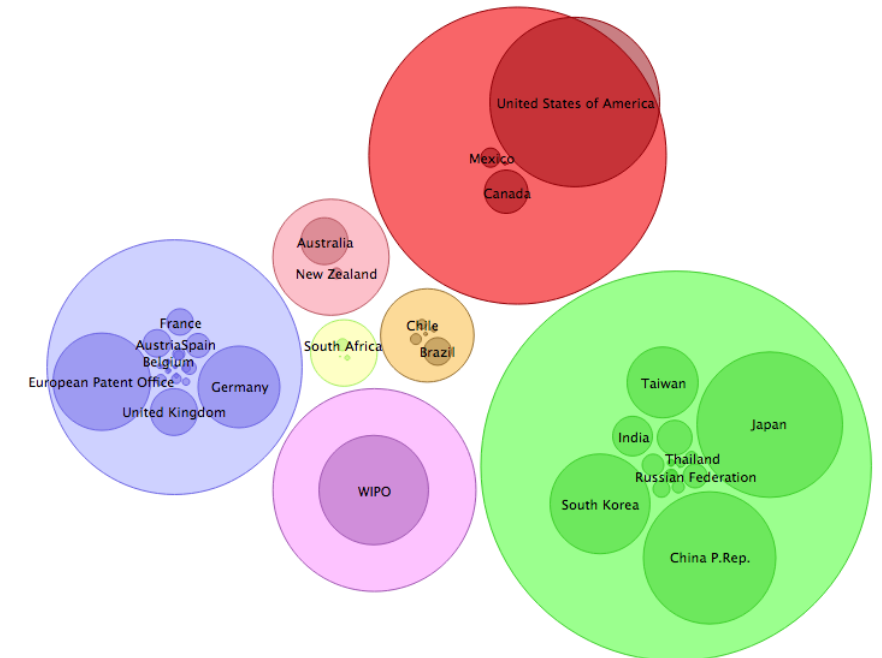


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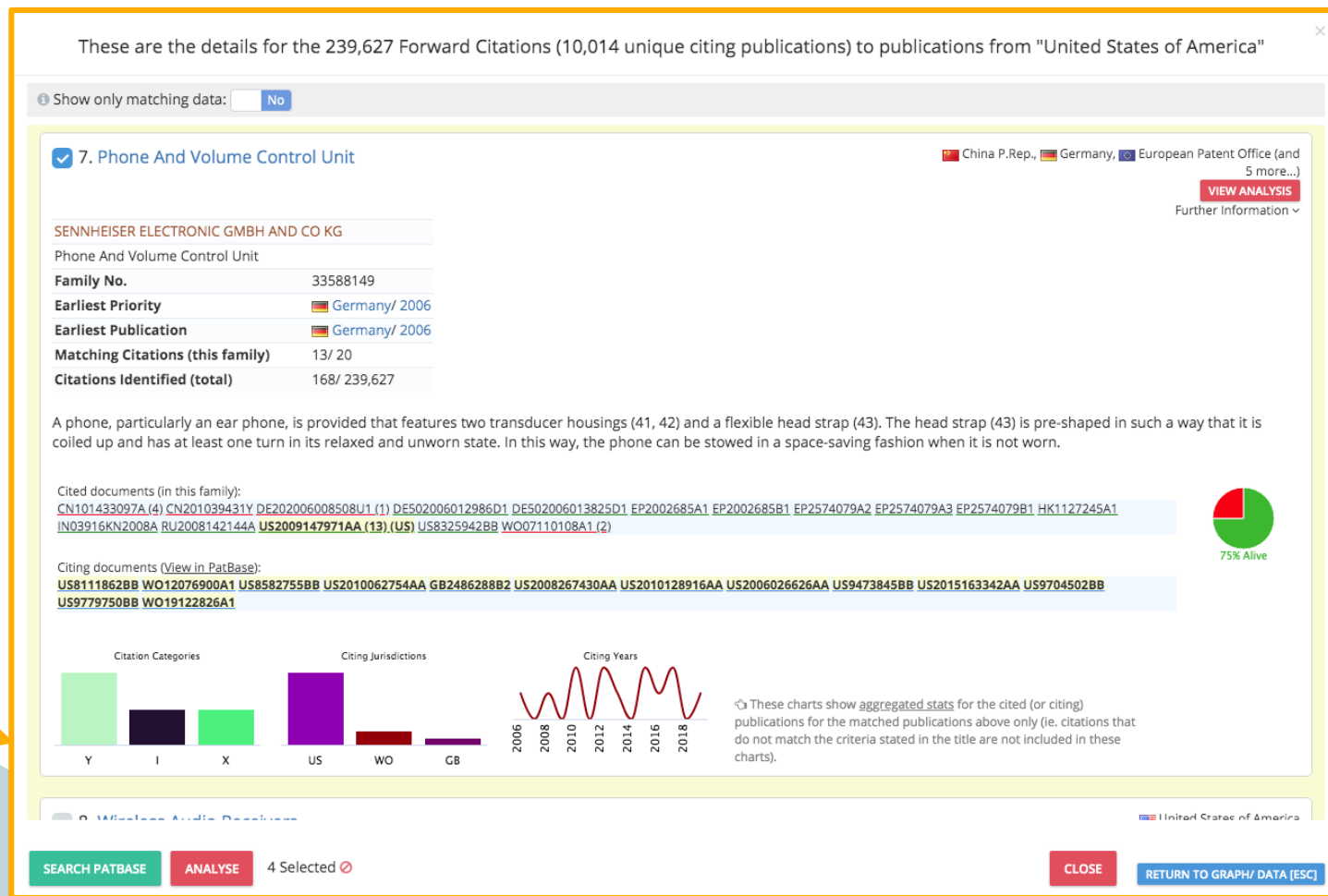
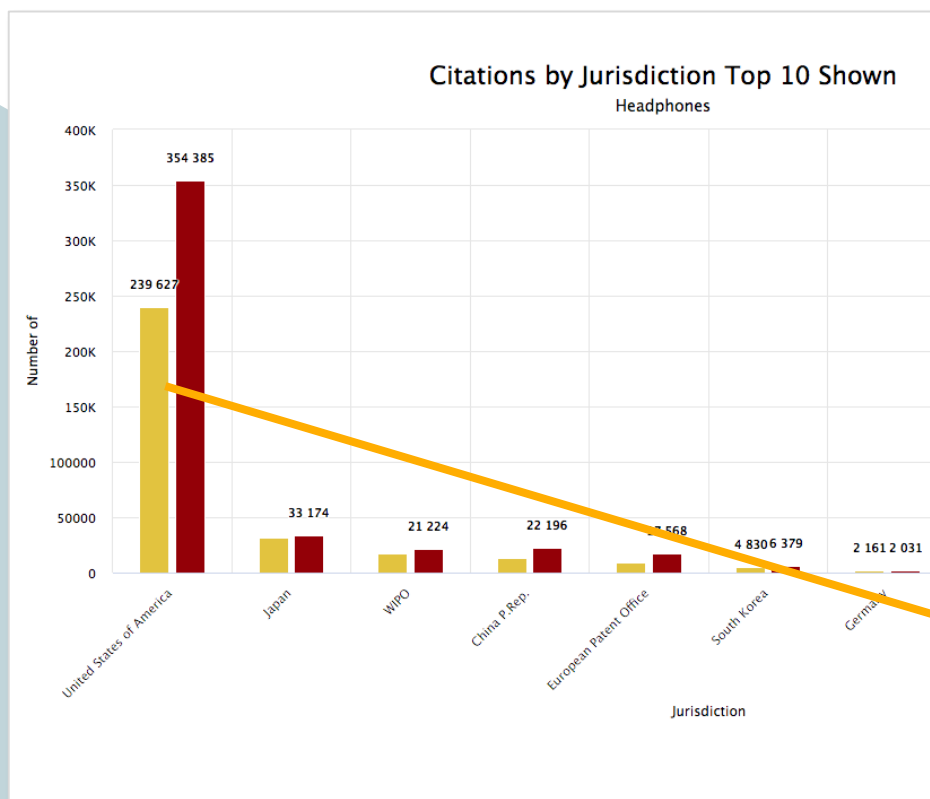
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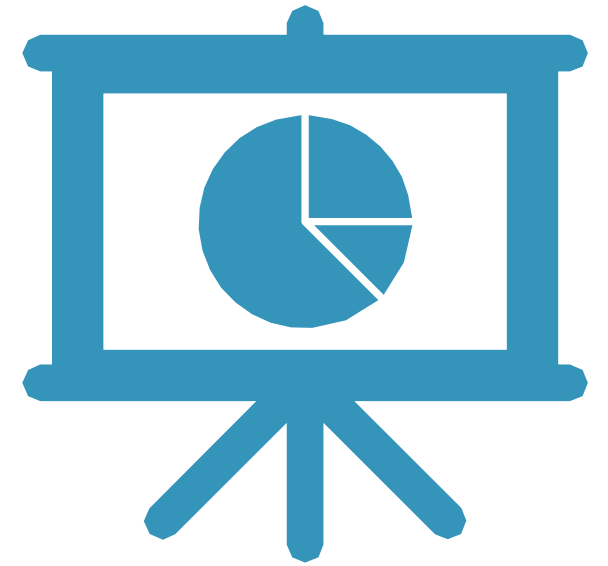


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-Corporate Patent Attorney



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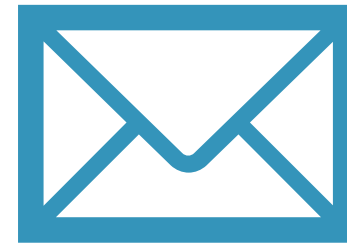
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