



*Patent Portfolio Landscape Report
Tesla*

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Portfolio Landscape Executive Summary - Tesla

❖ GENERAL:

- ❖ *Large Numbers Of Patents by Medium And Small Companies around the Tesla portfolio*
- ❖ *Relatively Less Patenting Activity Among Universities And Government Entities*
- ❖ **Company Search Yielded 376 Issued And Published Pending Patents for Tesla**
- ❖ **We Found Specific CPC Classes Of Relevance:**
 - ❖ *H04W4/046 - Involving vehicles, e.g. floating traffic data [ftd] or vehicle traffic prediction*
 - ❖ *B60L11/1824 - Details of charging stations, e.g. vehicle recognition or billing*
 - ❖ *H01M2/1077 - Racks, groups of several batteries*
 - ❖ *B60K35/00 - Arrangement of adaptations of instruments*
 - ❖ *B60K1/04 - Of the electric storage means for propulsion*
- ❖ **Large Number Of Companies With Small To Medium Sized Portfolios Around Tesla Shows Significant Potential For Licensing Or Partnering With Tesla:**
 - ❖ *Atieva*
 - ❖ *Gogoro*
 - ❖ *Allison Transmission*
 - ❖ *Thunder Power Hong Kong*
 - ❖ *General Cable Technologies*
- ❖ **Large Companies Appear To Dominate The IP In This Area Including: *GM Global Technology Operations; Ford Global Technologies; Toyota Jidosha Kabushiki Kashiha; Audi; Robert Bosch; Bayerische Motoren Werke; Cisco Technology; Hyundai Motor; Samsung SDI; McAfee.***

IPVisionPortfolio Landscape Analysis – Tesla

Step 1: Portfolio Overview

1. Portfolio Contents

- Issued Patents: [284 Issued Patents](#)
- Pending Applications: [92 Pending Applications](#)

2. CPC Class Tree Analysis

- Issued Patents: [CPC Class Tree Analysis](#)
- Pending Applications: [CPC Class Tree Analysis](#)

3. Portfolio Interconnection Map [Interconnection Map](#)

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Step 2: Forward Landscape and Map Highlighting

1. Forward Landscape([615 Issued Patents](#))

- ❖ Corporations w/ Large Patent Portfolios: [360 Issued Patents](#)
- ❖ Corporations w/ Medium Patent Portfolio: [92 Issued Patents](#)
- ❖ Corporations w/ Small Patent Portfolios: [114 Issued Patents](#)
- ❖ Government Patents: [2 Issued Patents](#)
- ❖ Labs/Research/Univ. Patents: [7 Issued Patents](#)
- ❖ Others and Individuals Patents: [45 Issued Patents](#)

2. Selected Categories Map Highlighting

- ❖ Map Highlighting of Corporations w/ Large Patent Portfolios: [360 Patents Cite 144 Tesla Patents](#)
- ❖ Map Highlighting of Corporations w/ Medium Patent Portfolios: [92 Patents Cite 60 Tesla Patents](#)
- ❖ Map Highlighting of Corporations w/ Small Patent Portfolios: [114 Patents Cite 67 Tesla Patents](#)
- ❖ Map Highlighting of Labs/Research/Univ.: [7 Patents Cite 10 Tesla Patents](#)
- ❖ Map Highlighting of Others and Individuals: [45 Patents Cite 49 Tesla Patents](#)

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Step 3: Selected Category Detailed Analysis

a. Corporations with Large Portfolios

- ❖ [Assignee Analysis](#)
- ❖ [CPC Group Analysis](#)
- ❖ [CPC Class Tree Analysis](#)

b. Corporations with Medium Portfolios

- ❖ [Assignee Analysis](#)
- ❖ [CPC Group Analysis](#)
- ❖ [CPC Class Tree Analysis](#)

c. Corporations with Small Portfolios

- ❖ [Assignee Analysis](#)
- ❖ [CPC Group Analysis](#)
- ❖ [CPC Class Tree Analysis](#)

d. Lab/Research/Univ. Portfolios

- ❖ [Assignee Analysis](#)
- ❖ [CPC Group Analysis](#)
- ❖ [CPC Class Tree Analysis](#)

e. Others and Individuals Portfolios

- ❖ [CPC Group Analysis](#)
- ❖ [CPC Class Tree Analysis](#)

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What is a Patent Portfolio Landscape?

A Patent Portfolio Landscape presents a "Dashboard" that provides a quick look at a company's U.S. patent portfolio and the immediate patent citation landscape around it. Links are provided to the various data lists and analyses on the IPVision Advantage™ patent analytics platform where further analysis can be done by the Dashboard user.

How is the Dashboard Created and How Do I Use it?

Step 1: Portfolio Overview

The first step is to assemble the company's portfolio. Unless the company requesting the Dashboard provides a list of U.S. patent properties, IPVision assembles the portfolio by doing a "current assignee" search. Note: for this simple Dashboard we do not create a "corporate tree" of associated companies.

To illustrate the technologies represented by the patents in the Portfolio, we breakdown the portfolio using the [Cooperative Patent Classification System](#).

Finally we present a Portfolio "Interconnection Map" showing the patent citation relationships among the patents in the portfolio. See, [How To Read an IPVision Map](#)

Step 2: Forward Landscape

To give you an understanding of the portfolio's place relative to other organizations we generate a list of all patents that cite one or more of the patents in the portfolio ("Forward Citations"). The organizations that own the Forward Citation Patents are then broken down by organization type:

- Corporations with "Large" U.S. Patent Portfolios (> 1,000 issued and pending)
- Corporations with "Small" Portfolios (<= 100)
- Labs/Research/University organizations
- Corporations with "Medium" Portfolios (> 100 and <= 1,000 issued and pending)
- Government Entities
- Other and Individuals

This organization breakdown can provide insights such as emerging company activities (e.g. Corporation with Small Portfolios) and work being conducted at research institutions. Patents in these organizational buckets are shown in list form and in Cross Citation Maps.

Step 3: Selected Category Detailed Analysis

In column 3 we provide a more fine grained view of the patents in the organizational buckets - who owns them and what technology areas they are in. See, [How to Use a Class Tree Analysis](#).