Table of Contents

Example 1: Abstract for an engineering patent

Patent: Method and apparatus for intelligent communication selection.

Title: Method for intelligent communication selection, for device i.e. mobile telephone, includes selecting optimal communication protocol for communicating data based on determined communication capability, and communicating data with device

Use: The method is used for the devices such as a desktop computer, a mobile telephone or a smartphone, a personal digital assistant, a laptop computer, a tablet computer, and a payment device.

Novelty: The method includes determining communication capability of a device (1) for receiving data by a mobile device (2), selecting an optimal communication protocol for communicating the data based on the determined communication capability, and communicating the data with the device (1) using the selected optimal communication protocol. The contextual data comprises a location, devices available, or user preference.

Advantages: The method ensures correct payment methods in real time, without user input, for applications or devices supporting more than one contactless payment methods when performing payments on a payment device, regardless of whether the contactless payment methods provided by the payment device are one-way or two-way communication. The method allows the switching system to intelligently decide which payment method should be used when a user taps a mobile device with supported application on a payment device supporting NFC (near-field communication) and/or MST (magnetic secure transmission) contactless payments. The method stops an unwanted payment timely to ensure there is no influence on the ongoing payment.

Example 2: Knowledge Base - The IONIQ 5 Robotaxi

The IONIQ 5 robotaxi is an all-electric, SAE (The Society of Automotive Engineers) Level 4 autonomous vehicle (AV) that can safely operate without a driver. The robotaxi is powered by Motional's AI (artificial intelligence)-first autonomy stack, the product of decades of innovation and millions of miles of testing. The various features of the robotaxi are discussed below.

1. Sensor Suite: The sensor suite is present at the front end top of the vehicle. It allows the robotaxi to see and process its surroundings. Over 30 sensors - a combination of cameras (a), radar, and LiDAR (b) provide robust, 360-degree perception and ultra-long range detection of objects for safe operation. Each sensor has been strategically placed to maximize the vehicle's sensing capabilities in diverse driving environments.

2. Compute: The compute system processes high volumes of data from the robotaxi's sensors to provide the vehicle with a view and understanding of the world around it. With the power of a small server farm, the onboard compute processes the flow of data from the sensors in real time. It then analyzes the data to determine the vehicle's path through its surroundings.

3. Communication system: The vehicle's communication system includes capabilities needed to deploy and operate a driverless robotaxi fleet such as dispatching and routing, pinpointing the vehicle's location and providing remote assistance.

4. Exterior display: A high visibility LED display in on the front windshield that shows a unique vehicle id, to help a passenger find their vehicle.

5. LED strips: Specially designed LED strips are used to communicate with the rider. For example, once the doors are unlocked, an LED strip along the bottom of the windows will light up to indicate passengers can enter.

6. Remote customer assistance: For many passengers this will be their first time experiencing driverless technology, and is expected they may have questions throughout their ride. Passengers can contact remote customer assistance through buttons, speakers and microphones outside and inside the robotaxi.

7. Emergency buttons: The emergency buttons placed on the ceiling allow the passengers to place a priority call to remote assistant. They are designed for a clear and an easy access for passengers with urgent requests.

8. In cabin sensors: The in-cabin sensors support passenger safety by ensuring they are properly seated in the vehicle before a ride can start. The sensors can also be used to alert riders if they leave a personal belonging behind in the backseat.

9. Passenger display: The passenger display screens will integrate interfaces from our ride hail partners to provide passengers with information about their trip, along with certain controls. The displays are located in front of each seat for easy access.

10. HMI buttons: Human machine interface (HMI) buttons allow riders to control basic function of their journey such as starting the ride, pulling over and calling a remote assistant. The buttons are located below every passenger display and have tactile designs to indicate their function for visually impaired riders.

Example 3: Frequently Asked Questions (FAQs) – IONIQ 5 Robotaxi

1. How to book The IONIQ 5 Robotaxi?

  The passengers can book the ioniq 5 robotaxi using the website www.ioniq5.com.

2. Which cities does the IONIQ 5 Robotaxi services operate?

  The robotaxi operates in Los Vegas currently and will be expanded to more cities in the future.

3. What happens if there is an unforeseen circumstance during the ride?

  Every system on the IONIQ 5 robotaxi has a backup - a second system that kicks in if the first one fails. This goes for brakes, steering, communication, and power. Everything is designed to bring the passengers to their destination as safely as possible.

4. What is remote vehicle assistance?

  Remote Vehicle Assistance (RVA)' is ready to prepare the vehicle for all kinds of unpredictable scenarios such as construction zones, road flooding, or unexpected and illegal behaviors from other road users. When this happens, a Motional remote operator can connect to the vehicle's autonomous system instantaneously and either provide the car with a new path to follow or offer other kinds of assistance.

4. What if I want to drive?

  As there is a traditional steering wheel in the robotaxi, you'll be able to drive. But the robotaxi are not available for the public for the driving purposes. Its main idea is to provide seamless experience for the passengers to get from one destination to the other.

5. How to pay for the ride?

  The passengers can pay for the ride using all the major credit cards and debit cards. The payment can be made when the passenger is ready to unload from the robotaxi at the destination point.

Example 4: How to guide

How to join a group in facebook (android phone)

Open the facebook app. Go to the **homepage**. Select the **menu** from the right hand side of the page.

Select the **Groups** icon. Then select **Discover** option which is at the right hand side of the page.

Under **Suggested for you** it gives the list of page suggestions for you to join.

You can choose whatever the group you are interested, and then click **Join** below the group.

You can join up to 6,000 groups. Once you reach this limit, you'll need to leave some groups before you can join new ones.

What happens next?

Depending on the group's settings, you may have to wait for a group admin to approve your request. Hidden groups you're not a member of won't appear in the **Discover** page. When you join a group, members of the group will see that you're a member. Non-members may also see that you're a member, depending on the group's privacy level.

How to leave a group in facebook (android phone)

Open the facebook app. Go to the **homepage** . Select the **menu** from the right hand side of the page.

Select the **Groups** icon. Then click **Your groups**. Then select the group from which you need to leave. Click **Joined** icon, then select **Leave group**.

Click **Leave group** to confirm.

When you leave a group,

- Members won't be notified if you leave.
- You're removed from the member list and the group will be removed from your list of groups.
- You'll no longer get group notifications or see group posts in **Feed**.
- People will no longer know when you've seen a group post, even if you saw it before you left the group.

Example 5: Standard operating procedure (SOP)

New employee's first day at work

Title: HR – New Employee Onboarding [Updated 11/27/2023]

Identification: The document was introduced on August 14, 2019, by Asha M, and updated on November 27, 2023, by Rudra L.

Scope: These are the guidelines for HR representatives and people managers to follow on a new employee's first day at work. All the related materials should be prepared in advance.

Purpose: Following a standard onboarding process allows to provide a seamless onboarding experience for a new employee.

Glossary:

Onboarding buddy – an employee from any department serving as a new hire's peer coach, helping them through their onboarding experience.

Direct Deposit – an authorization form authorizing an employer to send money to an employee's bank account.

NDA – a non-disclosure agreement.

Procedure:

Step 1: An HR representative welcomes a new employee in the office at 9 a.m., introduces the new employee to coworkers, and assigns an onboarding buddy.

Step 2: The HR representative shares an employee handbook with the new employee, discusses policies and procedures and asks to sign Direct Deposit and NDA.

Step 3: A people manager introduces the new employee to the first-day agenda and gives access to the company intranet.

Step 4: The people manager arranges a welcome lunch.

Step 5: The new employee goes through the first-day checklist and requests access to the tools perform work successfully.

Step 6: The new employee has a one-on-one with the direct manager.

Example 6: Release notes of Capture One

Version 2.2.1
November, 2023

- Fixed an issue where the viewer's background color was not displaying as expected.
- Fixed an issue where the swipe-left function from Albums was not working on iPhone.
- Fixed an issue where the style previews on iPhone required enhancements.
- Fixed an issue where the import sheet on iPhone was not resizing appropriately when selecting Import from an album.
- Fixed an issue where the German i18n in highlights slides was incorrect and inconsistent.

Version 2.2
October, 2023

- Read and reply to your Live session comments from right within the app.
- Rename multiple images at once with batch renaming.
- Save storage space and time with the new faster and smaller image proxy generation.
- Never lose a shot and get more freedom to move with ReTether. During a shoot you can unplug your tethering cable and keep shooting. Once you plug back in, your shots will be automatically transferred into Capture One.

  - This feature only works with supported Canon and Nikon cameras.

  - The camera must have an SD (Security Digital) card inserted.

  - Keep the Capture One app open on your iPhone/iPad. If the app closes while unplugging and plugging in, the images won't transfer back in automatically.

Version 2.1
September, 2023

- Added full support for Fujifilm GFX 100 II.
- You can now shoot photos from within the app (iPhone only).
- Shoot ProRAW photos and take advantage of our new ProStandard profile.*
- Change background color of the viewer: white, medium, dark grey or black.
- In-app guide on how to connect your camera (for supported cameras).
- Add images to an album from the viewer (iPhone only).

  * ProStandard profiles only apply to ProRAWs shot from the app.
  iPhone 12 Pro and newer Pro models shoot ProRAW, other models default to HEIC (High-Efficiency Image Coding) format.

Example 7: Medical writing

Cholesterol and Heart disease

People with higher cholesterol levels may have a higher risk of developing heart disease. However, recent research suggests that the relationship between cholesterol and heart disease is not as clear as experts previously thought.

Heart disease refers to any condition that affects a person's **heart** and **blood vessels**. A person with heart disease **may have no symptoms** until they experience severe or fatal complications.

According to the Centers for Disease Control and Prevention (CDC), heart disease is the leading cause of death in the United States. Of the people who died in 2020, **1 in 5** died due to heart disease.

If a person has **high cholesterol levels**, they may be at an increased risk of developing heart disease. According to the CDC, nearly **2 in 5** adults in the United States have high cholesterol.

What is cholesterol?

Cholesterol is a waxy substance that the **liver** makes. People need cholesterol to support their health. It helps the body carry out important functions like digesting fatty foods and making hormones.

If a person has a total cholesterol level above **200 milligrams per deciliter (mg/dL)**, they have high cholesterol. Doctors measure a person's total cholesterol level as the total of three substances in their bloodstream.

These substances are **triglycerides** and **two kinds** of **lipoproteins**:

- Low-density lipoproteins (LDL): These lipoproteins **deliver** cholesterol to cholesterol-dependent tissues through the bloodstream. High levels of LDLs may raise a person's risk of heart-related health conditions.
- High-density lipoproteins (HDL): These lipoproteins absorb cholesterol in a person's **blood** and carry it to the liver, which removes it from the body. High levels of HDLs may lower a person's risk of heart-related health conditions.
- Triglycerides: These are a type of fat in the bloodstream and a source of energy for the body. A person's body needs some triglycerides to support their health, but high triglycerides levels **may raise** their risk of heart-related health conditions.

The CDC indicates that a person's liver makes all the blood cholesterol their body needs and suggests that people limit **dietary cholesterol**.

Cholesterol and heart disease

If a person has too much LDL in their bloodstream, it **may cause** plaque buildup in their **arteries**, which can lead to a blockage. This blockage can reduce blood flow to and from a person's heart. Over time, this can cause **angina** and **heart attack**.

High LDL levels may also raise a person's risk of **stroke** and **double** a person's heart disease risk.

Dietary cholesterol

However, in a **2019 study**, researchers from the American Heart Association (AHA) questioned the relationship between dietary cholesterol and heart health. They analyzed a range of studies and found that there were mixed results.

For example, many observational studies found no significant association between dietary cholesterol or **egg** intake and **cardiovascular disease (CVD)**.

However, a U.S.-based meta-analysis found that eating half an egg per day may increase the risk of CVD by 6%. Similarly, two studies found that egg consumption was associated with CVD risk in people with **type 2 diabetes**.

They concluded that specific dietary cholesterol targets are challenging to implement and guidelines focusing on overall dietary patterns are more likely to help people improve their diet and cardiovascular health.

The latest edition of the **Dietary Guidelines for Americans** no longer includes a specific cholesterol diet limit. However, they do still recommend people limit consuming foods high in dietary cholesterol.

A 2018 **review** summarized research results focusing on links between dietary cholesterol and CVD. Researchers concluded there may be no link between heart disease risk and cholesterol in people considered healthy.

However, they also highlighted that foods rich in **saturated** and trans **fats** increase a person's risk of cardiovascular disease. Dietary cholesterol is usually also present in these same foods. The researchers suggested that further studies into the relationship between dietary cholesterol and certain health conditions, like diabetes, are necessary.