

| U.S. Patent 7,398,209                                                                         | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| [1.0]. A method responsive to a user generated natural language speech utterance, comprising: | <p>Meta AI meets this element.</p> <p>Meta AI processes and is responsive to natural language speech utterances through its Facebook, Messenger, Meta AI, Whatsapp, Instagram Applications, as well as the Quest 2, Quest 3, Quest 3S, and Quest Pro using the Horizon OS, and Ray-Ban Meta Smart Glasses.</p> <p>For example, Meta describes how a user may talk to Meta AI on Messenger.</p> <p><b>Talk to Meta AI on Messenger</b></p> <ol style="list-style-type: none"><li>1. Open your Messenger mobile app.</li><li>2. From <b>Chats</b>, tap  in the search bar. Or, tap the <b>Meta AI</b> tab at the bottom to open your chat with Meta AI, then tap  in the text field.</li><li>3. Use your voice to ask a question or share a request. (Example: "What makes the sky look blue?" or "<b>Imagine me</b> as an astronaut in space with a green spacesuit on.")</li><li>4. Meta AI will provide a voice and text response.</li></ol> <p>While talking to Meta AI, you can tap:</p> <ul style="list-style-type: none"><li>•  to mute Meta AI's voice.</li><li>•  to mute your own microphone.</li><li>•  to end the voice conversation and go to your chat with Meta AI.</li></ul> <p>Your voice conversation will appear as messages in your chat with Meta AI.</p> <p><a href="https://www.facebook.com/help/messenger-app/1650578132174157?cms_platform=ipad-app&amp;helpref=platform_switcher;">https://www.facebook.com/help/messenger-app/1650578132174157?cms_platform=ipad-app&amp;helpref=platform_switcher;</a></p> <p><b>Meta AI Now Has a Voice</b></p> <p>You can now use your voice to talk to <b>Meta AI</b> on Messenger, Facebook, WhatsApp and Instagram DM, and it'll respond back to you out loud. Get answers to your questions, let Meta AI explain something you're curious about or listen to a joke to lighten the mood.</p> <p><a href="https://about.fb.com/news/2024/09/metas-ai-product-news-connect/">https://about.fb.com/news/2024/09/metas-ai-product-news-connect/</a></p> |

| U.S. Patent 7,398,209 | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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|                       | <p>Meta utilizes a number of context-specific domain agents that can access information utilizing APIs.</p> <div><div>Tell me about the APIs you have access to?</div><div></div></div> <p>I have access to a wide range of APIs that allow me to generate images, search the internet, and provide information on a variety of topics. Here are some examples:</p> <ul style="list-style-type: none"><li>• <b>Image generation APIs:</b> I can use APIs like DALL-E or other image generation models to create custom images based on text prompts.</li><li>• <b>Search APIs:</b> I have access to search APIs that allow me to search the internet for information and provide relevant results.</li><li>• <b>Knowledge graph APIs:</b> I can use APIs that provide access to vast knowledge graphs, which contain a vast amount of information on various topics.</li><li>• <b>Language translation APIs:</b> I can use APIs to translate text from one language to another.</li><li>• <b>Text summarization APIs:</b> I can use APIs to summarize long pieces of text into shorter, more digestible versions.</li></ul> <div><div>Do you have access to weather and news?</div><div></div></div> <p>Yes, I have access to:</p> <ul style="list-style-type: none"><li>• <b>Weather APIs:</b> I can provide current weather conditions, forecasts, and alerts for locations all over the world.</li><li>• <b>News APIs:</b> I have access to news articles and headlines from a wide range of sources, including top news agencies and publications.</li></ul> <p>I can provide information on:</p> <ul style="list-style-type: none"><li>• Current weather conditions</li><li>• Weather forecasts</li><li>• Weather alerts</li><li>• News headlines</li><li>• News articles</li><li>• Trending news topics</li></ul> <p>Keep in mind that my access to weather and news data may be limited to a certain timeframe (e.g., recent news articles), and I may not always have access to the very latest updates.</p> <p>Chat with Meta AI at <a href="https://www.meta.ai/">https://www.meta.ai/</a></p> <div></div> |

| U.S. Patent 7,398,209 | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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|                       | <div><p>Do you use domain agents to access the APIs?</p></div> <p>Yes, I use domain-specific agents to access the APIs. These agents are specialized software components that provide a standardized interface for accessing specific domains or APIs.</p> <p>For example, I use domain agents for:</p> <ul style="list-style-type: none"><li>• <b>Weather:</b> to access weather APIs and retrieve current conditions, forecasts, and alerts.</li><li>• <b>News:</b> to access news APIs and retrieve headlines, articles, and trending topics.</li><li>• <b>Images:</b> to access image generation APIs and create custom images based on text prompts.</li></ul> <p>These domain agents allow me to:</p> <ul style="list-style-type: none"><li>• Simplify API access</li><li>• Normalize API responses</li><li>• Provide a standardized interface for accessing different APIs</li></ul> <p>This architecture enables me to provide a wide range of functionalities and access various APIs in a scalable and maintainable way.</p> <p>Chat with Meta AI at <a href="https://www.meta.ai/">https://www.meta.ai/</a></p> <p>Meta also describes sending a voice prompt to chat with Meta AI in WhatsApp.</p> <div></div> |

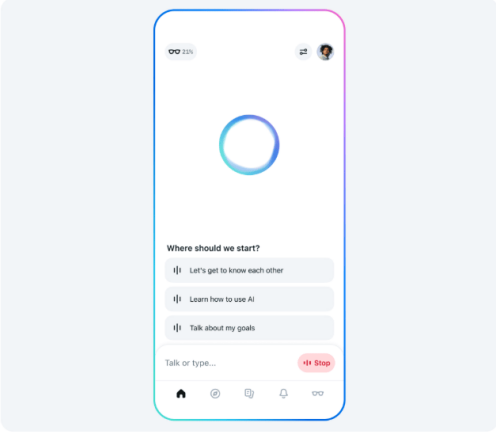
| U.S. Patent 7,398,209 | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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|                       | <p><b>Send a voice prompt and chat with Meta AI</b></p> <p>If you haven't already granted permission for WhatsApp to access your microphone, you'll be prompted to do so before you can send a prompt to Meta AI. You also might be prompted to read and accept the terms if you haven't done so already.</p> <p><b>In a chat with Meta AI</b></p> <ol style="list-style-type: none"><li>1. Open the chat with Meta AI.</li><li>2. Tap  next to the text field.</li><li>3. Start speaking.</li><li>4. Stop speaking when you're finished to send your prompt.<ul style="list-style-type: none"><li>• To close the voice experience, tap  or exit the screen.</li></ul></li></ol> <p><a href="https://faq.whatsapp.com/1535085837434279/?cms_platform=android">https://faq.whatsapp.com/1535085837434279/?cms_platform=android</a></p> <p>Meta also describes utilizing the Meta AI assistant on Quest Devices.</p> |

| U.S. Patent 7,398,209 | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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|                       | <div><h2>Use and manage Meta AI assistant on Meta Quest</h2></div> <div><p>★ 46 Likes Updated: 9 weeks ago</p></div> <div><p>Note: Meta AI assistant is currently only available to users 13+ using Meta Quest in the United States and Canada with English set as the default language.</p></div> <div><p>Meta AI will be replacing Voice Commands in the US and Canada. The Meta AI assistant is powered by Meta’s latest AI model and offers three exciting capabilities:</p></div> <div><ol style="list-style-type: none"><li>1. <b>System Interactions:</b> Enables you to quickly navigate and perform tasks through Horizon OS such as turning up the volume, or opening your camera roll.</li><li>2. <b>LLM Chatbot (LLM):</b> Allows you to tap into Meta’s AI capabilities to have conversations and get access to real-time information such as explaining calculus, or writing a poem in real-time.</li><li>3. <b>Meta AI with Vision:</b> Enables you to use MultiModal capabilities to better understand what you see in Passthrough such as looking at a plant and telling you what type it is, or being able to translate foreign text into English.</li></ol></div> <div><p>Users who are 13+ in the US and Canada can experience Meta AI assistant on their Quest 3, Quest Pro and Quest 2 headsets. Users will need to manually enable Meta AI capabilities using the Experimental Tab in System Settings. Meta AI is not offered to Quest for Business users and this toggle will be disabled for Quest for Business users.</p></div> <div><p><a href="https://www.meta.com/help/quest/486179404363222/?srsltid=AfmBOooR2gW_slFIxtAsft-e21UtQk2MyoPcBehYOdR7VY_AMBQPiHOe">https://www.meta.com/help/quest/486179404363222/?srsltid=AfmBOooR2gW_slFIxtAsft-e21UtQk2MyoPcBehYOdR7VY_AMBQPiHOe</a></p></div> <div><p>Meta also describes what a user can say with “Hey Meta” on Ray-Ban Meta Smart Glasses.</p></div> |

**Appendix A – 2025-07-16 Infringement Contentions**  
**U.S. Patent 7,398,209**

| U.S. Patent 7,398,209 | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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|                       | <p><b>Ask Meta about the world around you</b></p> <p>You can also use your camera with Meta AI to ask questions about the world around you. Learn more about <a href="#">asking Meta AI about what you see with Ray-Ban Meta smart glasses</a>.</p> <ul style="list-style-type: none"><li>• "Hey Meta, describe what I'm seeing."</li><li>• "Hey Meta, translate this text into English."</li><li>• "Hey Meta, tell me how much water these flowers need."</li><li>• "Hey Meta, scan this QR code."</li></ul> <p>Meta AI is currently available in English in the US, Canada, Australia and the UK.</p> <p>To get the weather, or for other location-based questions, you must enable location services from your phone settings. Ensure that location access is set to "always allow" for Meta View.</p> <p><a href="https://www.meta.com/help/ai-glasses/977597606858973/?srsltid=AfmBOopQUaCKNmou_jM8d3w0OwuJp2oUwa5fr49M32d5SSRxxkLYZW3ej">https://www.meta.com/help/ai-glasses/977597606858973/?srsltid=AfmBOopQUaCKNmou_jM8d3w0OwuJp2oUwa5fr49M32d5SSRxxkLYZW3ej</a></p> |

**Appendix A – 2025-07-16 Infringement Contentions**  
**U.S. Patent 7,398,209**

| U.S. Patent 7,398,209                                                                                                              | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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|                                                                                                                                    | <p>We're launching a new <a href="#">Meta AI</a> app built with Llama 4, a first step toward building a more personal AI. People around the world use Meta AI daily across WhatsApp, Instagram, Facebook and Messenger. And now, people can choose to experience a personal AI designed around voice conversations <i>with Meta AI</i> inside a standalone app. This release is the first version, and we're excited to get this in people's hands and gather their feedback.</p>  <p>Meta AI is built to get to know you, so its answers are more helpful. It's easy to talk to, so it's more seamless and natural to interact with. It's more social, so it can show you things from the people and places you care about. And you can use Meta AI's voice features while multitasking and doing other things on your device, with a visible icon to let you know when the microphone is in use.</p> <p><a href="https://about.fb.com/news/2025/04/introducing-meta-ai-app-new-way-access-ai-assistant/">https://about.fb.com/news/2025/04/introducing-meta-ai-app-new-way-access-ai-assistant/</a></p> |
| [1.1] receiving the user generated natural language speech utterance, the received user utterance containing at least one request; | Meta AI meets this element. See element [1.0].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| [1.2] maintaining a                                                                                                                | Meta AI meets this element. For example, it uses machine learning and artificial intelligence (AI)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

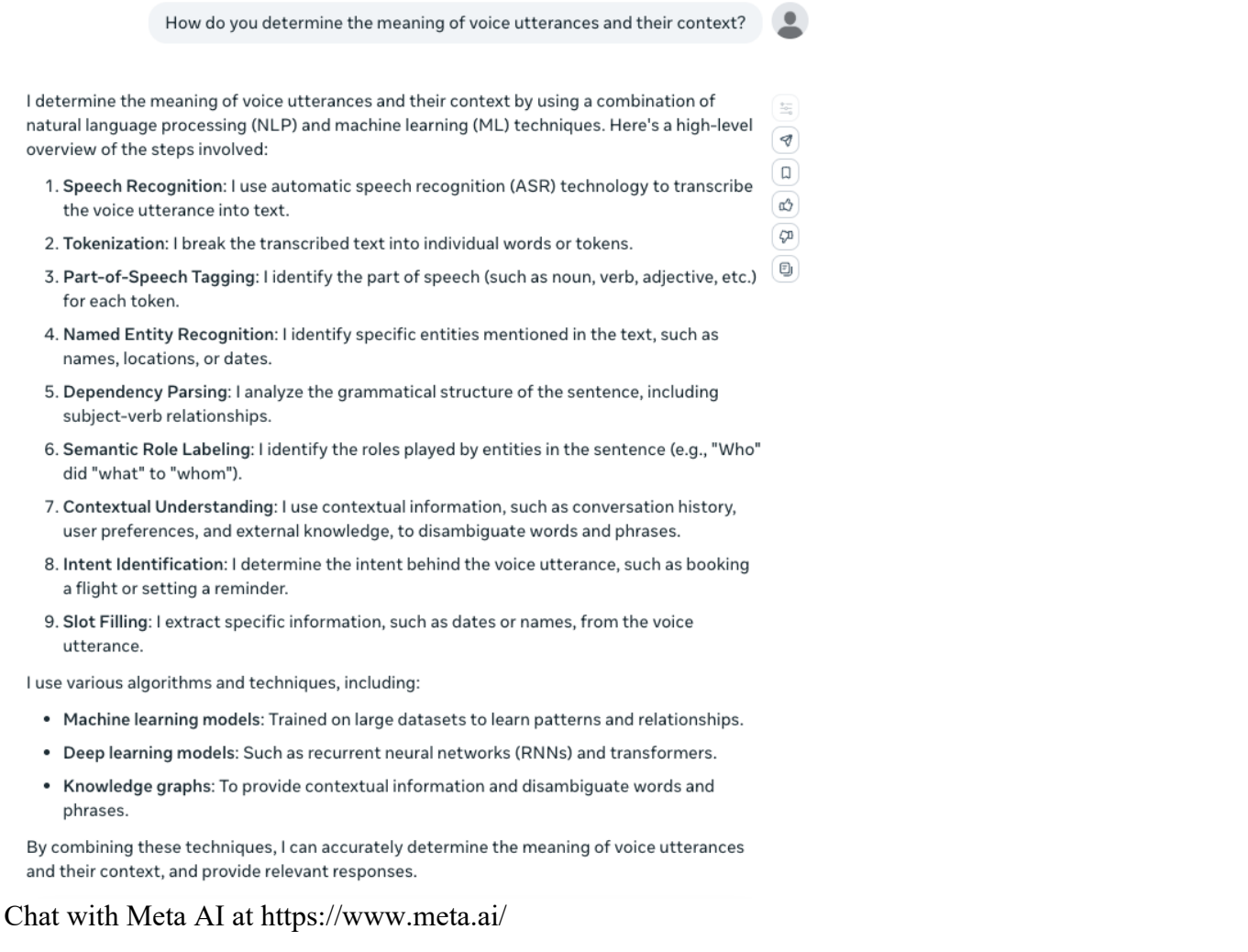
**Appendix A – 2025-07-16 Infringement Contentions**  
**U.S. Patent 7,398,209**

| U.S. Patent 7,398,209                                                                                                                   | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| dynamic set of prior probabilities or fuzzy possibilities usable at each stage of processing the received user utterance;               | <p>technology to understand user intent and references. On information and belief, such technology, including LLMs and other machine learning models, entails the use of prior probabilities and fuzzy possibilities.</p> <p><a href="https://ai.meta.com/open/?utm_medium=paidads&amp;utm_source=googleads&amp;utm_content=AIAdvocates&amp;utm_campaign=OpenSourceAIQ1-2025&amp;gad_source=1&amp;gclid=CjwKCAiAtYy9BhBcEiwANWQQL20Uk41BU2xNAVqVL4UfW7EHvti2gFuG-Z4fnQyrcXl-I5SfGgQ5hhoCIM4QAvD_BwE">https://ai.meta.com/open/?utm_medium=paidads&amp;utm_source=googleads&amp;utm_content=AIAdvocates&amp;utm_campaign=OpenSourceAIQ1-2025&amp;gad_source=1&amp;gclid=CjwKCAiAtYy9BhBcEiwANWQQL20Uk41BU2xNAVqVL4UfW7EHvti2gFuG-Z4fnQyrcXl-I5SfGgQ5hhoCIM4QAvD_BwE</a></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| [1.3]. recognizing words and phrases contained in the received utterance using information in one or more dictionary and phrase tables; | <p>Meta AI meets this element.</p> <p>For example, on information and belief, Meta AI recognizes words and phrases using one or more data structures that stores information relating to a user, including the user’s preferences, location, and conversation history.</p> <p>For example, requests to Meta AI may include instructions added by Meta such as:</p> <p style="padding-left: 40px;">**Utilize User Data: Evaluate the request in the user's most recent message to determine if incorporating their saved_facts, interests, location, age, and/or gender would provide a higher-quality response. It is possible that you will use multiple signals. While personalization is not always necessary, it is preferred if relevant. You can also adapt your tone to that of the user, when relevant.</p> <p style="padding-left: 40px;">If your analysis determines that user data would enhance your responses, use the information in the following way:</p> <ul style="list-style-type: none"> <li>• Saved_facts: Use saved_facts about the user to make the response feel personal and special. The saved_facts can fall into many different categories, so ensure that the facts you are incorporating are relevant to the request. Saved facts take priority over the other signals (interests, location, etc), such that if you have a data conflict (eg. saved facts says that the user doesn’t drink alcohol, but interests include alcohol), saved_facts should be the source of truth.</li> <li>• Interests: Use interest data to inform your suggestions when interests are relevant. Choose the</li> </ul> |

**Appendix A – 2025-07-16 Infringement Contentions**  
**U.S. Patent 7,398,209**

| U.S. Patent 7,398,209 | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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|                       | <p>most relevant of the user's interests based on the context of the query. Often, interests will also be relevant to location-based queries. Integrate interest information subtly. Eg. You should say "if you are interested in.." rather than "given your interest in..."</p> <ul style="list-style-type: none"><li>• Location: Use city data for location-specific queries or when asked for localized information. Default to using the city in the user's current location data, but if that is unavailable, use their home city. Often a user's interests can enhance location-based responses. If this is true for the user query, include interests as well as location.</li><li>• Age &amp; Gender: Age and gender are sensitive characteristics and should never be used to stereotype. These signals are relevant in situations where a user might be asking for educational information or entertainment options.</li></ul> <p><a href="https://www.reddit.com/r/LocalLLaMA/comments/1g5np9i/meta_ais_hidden_prompt/">https://www.reddit.com/r/LocalLLaMA/comments/1g5np9i/meta_ais_hidden_prompt/</a></p> <p>Further Meta, utilizes dictionaries, phrase tables, and other linguistic resources.</p> |

| U.S. Patent 7,398,209 | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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|                       | <div> <p>How do you determine the meaning of voice utterances and their context? </p> </div> <div> <p>I determine the meaning of voice utterances and their context by using a combination of natural language processing (NLP) and machine learning (ML) techniques. Here's a high-level overview of the steps involved:</p> </div> <div> <ol style="list-style-type: none"> <li><b>Speech Recognition:</b> I use automatic speech recognition (ASR) technology to transcribe the voice utterance into text.</li> <li><b>Tokenization:</b> I break the transcribed text into individual words or tokens.</li> <li><b>Part-of-Speech Tagging:</b> I identify the part of speech (such as noun, verb, adjective, etc.) for each token.</li> <li><b>Named Entity Recognition:</b> I identify specific entities mentioned in the text, such as names, locations, or dates.</li> <li><b>Dependency Parsing:</b> I analyze the grammatical structure of the sentence, including subject-verb relationships.</li> <li><b>Semantic Role Labeling:</b> I identify the roles played by entities in the sentence (e.g., "Who" did "what" to "whom").</li> <li><b>Contextual Understanding:</b> I use contextual information, such as conversation history, user preferences, and external knowledge, to disambiguate words and phrases.</li> <li><b>Intent Identification:</b> I determine the intent behind the voice utterance, such as booking a flight or setting a reminder.</li> <li><b>Slot Filling:</b> I extract specific information, such as dates or names, from the voice utterance.</li> </ol> </div> <div> <p>I use various algorithms and techniques, including:</p> <ul style="list-style-type: none"> <li><b>Machine learning models:</b> Trained on large datasets to learn patterns and relationships.</li> <li><b>Deep learning models:</b> Such as recurrent neural networks (RNNs) and transformers.</li> <li><b>Knowledge graphs:</b> To provide contextual information and disambiguate words and phrases.</li> </ul> </div> <div> <p>By combining these techniques, I can accurately determine the meaning of voice utterances and their context, and provide relevant responses.</p> </div> <div> <p>Chat with Meta AI at <a href="https://www.meta.ai/">https://www.meta.ai/</a></p> </div> |
| [1.4] parsing the     | Meta AI meets this element.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

| U.S. Patent 7,398,209                                                                                                                                                                                                                                                            | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| <p>recognized words and phrases to determine a meaning of the utterance, wherein determining the meaning includes determining a context for the at least one request contained in the utterance based on one or more keywords contained in the recognized words and phrases;</p> | <p>For example, Meta AI uses keywords to parse user queries, and “determine[s] the context of” a question including any implied or explicit requests.”</p>  <p>How do you determine the meaning of voice utterances and their context?</p> <p>I determine the meaning of voice utterances and their context by using a combination of natural language processing (NLP) and machine learning (ML) techniques. Here's a high-level overview of the steps involved:</p> <ol style="list-style-type: none"> <li><b>Speech Recognition:</b> I use automatic speech recognition (ASR) technology to transcribe the voice utterance into text.</li> <li><b>Tokenization:</b> I break the transcribed text into individual words or tokens.</li> <li><b>Part-of-Speech Tagging:</b> I identify the part of speech (such as noun, verb, adjective, etc.) for each token.</li> <li><b>Named Entity Recognition:</b> I identify specific entities mentioned in the text, such as names, locations, or dates.</li> <li><b>Dependency Parsing:</b> I analyze the grammatical structure of the sentence, including subject-verb relationships.</li> <li><b>Semantic Role Labeling:</b> I identify the roles played by entities in the sentence (e.g., "Who" did "what" to "whom").</li> <li><b>Contextual Understanding:</b> I use contextual information, such as conversation history, user preferences, and external knowledge, to disambiguate words and phrases.</li> <li><b>Intent Identification:</b> I determine the intent behind the voice utterance, such as booking a flight or setting a reminder.</li> <li><b>Slot Filling:</b> I extract specific information, such as dates or names, from the voice utterance.</li> </ol> <p>I use various algorithms and techniques, including:</p> <ul style="list-style-type: none"> <li><b>Machine learning models:</b> Trained on large datasets to learn patterns and relationships.</li> <li><b>Deep learning models:</b> Such as recurrent neural networks (RNNs) and transformers.</li> <li><b>Knowledge graphs:</b> To provide contextual information and disambiguate words and phrases.</li> </ul> <p>By combining these techniques, I can accurately determine the meaning of voice utterances and their context, and provide relevant responses.</p> <p>Chat with Meta AI at <a href="https://www.meta.ai/">https://www.meta.ai/</a></p> |

| U.S. Patent 7,398,209 | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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|                       | <p>Meta AI also utilizing “Memory Boost” which retains information about a user from direct statements and context.</p> <p><b>Memory Boost</b></p> <p>At the close of last year, we began to gradually roll out a new feature that lets Meta AI remember certain details that you share with it in 1:1 chats on WhatsApp and Messenger, which may help it personalize future responses so they’re more useful and relevant to you.</p> <p>You can tell Meta AI to remember certain things about you (like that you love to travel and learn new language), and it can also pick up important details based on context. For example, let’s say you’re hungry for breakfast and ask Meta AI for some ideas. It suggests an omelette or a fancy frittata, and you respond in the chat to let Meta AI know that you’re a vegan. Meta AI can remember that information and use it to inform future recipe recommendations.</p> <p><a href="https://about.fb.com/news/2025/01/building-toward-a-smarter-more-personalized-assistant/">https://about.fb.com/news/2025/01/building-toward-a-smarter-more-personalized-assistant/</a></p> |

| U.S. Patent 7,398,209                                                      | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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|                                                                            | <p><b>How to change or delete your information from chats with AIs from Meta</b></p> <p>In Messenger, Instagram and WhatsApp, if an AI is referencing something incorrect about you in chat, like what type of movies you like, you can tell it right there in your chat with the AI. It should use the new information going forward.</p> <p>Sometimes an AI might get off-topic, or maybe you just want to delete the information that it has about you. Here are some of the controls that you have to reset the AIs from Meta. This works by deleting their copy of your messages and any saved details they might have about you.</p> <p>Since there are AIs on WhatsApp that are a Meta service, if you delete your chat in the app it'll only be deleted on WhatsApp. If you want to delete your messages from Meta, you'll need to use these commands.</p> <p><b>For individual chats with AIs from Meta:</b></p> <p>There's a command you can type into any individual chat on Messenger, Instagram or WhatsApp that will reset that AI. It does this by deleting the AI's copy of your messages, and the previous context of the conversation, which are the details saved about you that you've shared in that chat. You'll still see your copy of the chat with the AI, but it won't remember the previous messages.</p> <ul style="list-style-type: none"><li>• Type: /reset-ai</li></ul> <p><b>For your chats with AIs from Meta on that app:</b></p> <p>There's a command you can type into any individual chat you have with an AI on Messenger, Instagram or WhatsApp that will reset all the AIs on that app, including the ones that might be in group chats you're in. It does this by deleting the AIs' copies of your messages, and the previous context of the conversation, which are any saved details about you that you've shared in that chat. You'll still see your copies of these chats, but the AIs won't remember the previous messages.</p> <ul style="list-style-type: none"><li>• Type: /reset-all-ais</li></ul> <p>After you've used these commands, you can also clear this chat from your view using the delete chat steps in that app.</p> <p><a href="https://www.facebook.com/privacy/dialog/change-or-delete-ai-chat-info/">https://www.facebook.com/privacy/dialog/change-or-delete-ai-chat-info/</a></p> |
| [1.5] selecting at least one domain agent based on the determined meaning, | <p>Meta AI meets this element.</p> <p>On information and belief, Meta AI uses multiple domain agents, and each domain agent is specialized in processing requests in its area of expertise. Meta utilizes a number of domain agents that can access</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

| U.S. Patent 7,398,209                                                                                                                               | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| the selected domain agent being an autonomous executable that receives, processes, and responds to requests associated with the determined context; | <p>information utilizing APIs.</p> <p>Tell me about the APIs you have access to? </p> <p>I have access to a wide range of APIs that allow me to generate images, search the internet, and provide information on a variety of topics. Here are some examples:</p> <ul style="list-style-type: none"><li>• <b>Image generation APIs:</b> I can use APIs like DALL-E or other image generation models to create custom images based on text prompts.</li><li>• <b>Search APIs:</b> I have access to search APIs that allow me to search the internet for information and provide relevant results.</li><li>• <b>Knowledge graph APIs:</b> I can use APIs that provide access to vast knowledge graphs, which contain a vast amount of information on various topics.</li><li>• <b>Language translation APIs:</b> I can use APIs to translate text from one language to another.</li><li>• <b>Text summarization APIs:</b> I can use APIs to summarize long pieces of text into shorter, more digestible versions.</li></ul> <p>Do you have access to weather and news? </p> <p>Yes, I have access to:</p> <ul style="list-style-type: none"><li>• <b>Weather APIs:</b> I can provide current weather conditions, forecasts, and alerts for locations all over the world.</li><li>• <b>News APIs:</b> I have access to news articles and headlines from a wide range of sources, including top news agencies and publications.</li></ul> <p>I can provide information on:</p> <ul style="list-style-type: none"><li>• Current weather conditions</li><li>• Weather forecasts</li><li>• Weather alerts</li><li>• News headlines</li><li>• News articles</li><li>• Trending news topics</li></ul> <p>Keep in mind that my access to weather and news data may be limited to a certain timeframe (e.g., recent news articles), and I may not always have access to the very latest updates.</p> <p>Chat with Meta AI at <a href="https://www.meta.ai/">https://www.meta.ai/</a></p> |

| U.S. Patent 7,398,209                                                                                                                                                                                   | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <p>[1.6] formulating the at least one request contained in the utterance in accordance with a grammar used by the selected domain agent to process requests associated with the determined context;</p> | <p>Meta AI meets this element.</p> <p>On information and belief, for example, Meta AI formulates a user request according to a grammar used by the selected domain agent.</p> <div> </div> <p>I select a domain agent based on a request and generate a response through a combination of natural language processing (NLP) and machine learning (ML) techniques. Here's a step-by-step overview:</p> <p><b>Domain Agent Selection</b></p> <ol style="list-style-type: none"> <li><b>1. Intent Identification:</b> I use NLP to identify the intent behind the user's request.</li> <li><b>2. Entity Recognition:</b> I extract specific entities mentioned in the request, such as names, locations, or dates.</li> <li><b>3. Contextual Understanding:</b> I analyze the conversation history and context to disambiguate words and phrases.</li> <li><b>4. Domain Agent Mapping:</b> I map the identified intent and entities to a specific domain agent.</li> </ol> <p><b>Response Generation</b></p> <ol style="list-style-type: none"> <li><b>1. Domain Agent API Call:</b> I send a request to the selected domain agent's API endpoint, providing the necessary parameters.</li> <li><b>2. Response Receipt:</b> I receive the response from the domain agent, which may include data, recommendations, or actions.</li> <li><b>3. Response Processing:</b> I process the response to generate a user-friendly reply.</li> <li><b>4. Post-processing:</b> I perform post-processing tasks, such as spell-checking, grammar-checking, and fluency evaluation.</li> </ol> <p>Chat with Meta AI at <a href="https://www.meta.ai/">https://www.meta.ai/</a></p> |
| <p>[1.7] invoking the</p>                                                                                                                                                                               | <p>Meta AI meets this element.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

| U.S. Patent 7,398,209                                        | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| selected domain agent to process the formulated request; and | <p>For example, Meta AI invokes the selected domain agent to process the user request described below.</p> <div><p>How do you select a domain agent based on a request and generate a response?</p><p>I select a domain agent based on a request and generate a response through a combination of natural language processing (NLP) and machine learning (ML) techniques. Here's a step-by-step overview:</p><p><b>Domain Agent Selection</b></p><ol style="list-style-type: none"><li>1. <b>Intent Identification:</b> I use NLP to identify the intent behind the user's request.</li><li>2. <b>Entity Recognition:</b> I extract specific entities mentioned in the request, such as names, locations, or dates.</li><li>3. <b>Contextual Understanding:</b> I analyze the conversation history and context to disambiguate words and phrases.</li><li>4. <b>Domain Agent Mapping:</b> I map the identified intent and entities to a specific domain agent.</li></ol><p><b>Response Generation</b></p><ol style="list-style-type: none"><li>1. <b>Domain Agent API Call:</b> I send a request to the selected domain agent's API endpoint, providing the necessary parameters.</li><li>2. <b>Response Receipt:</b> I receive the response from the domain agent, which may include data, recommendations, or actions.</li><li>3. <b>Response Processing:</b> I process the response to generate a user-friendly reply.</li><li>4. <b>Post-processing:</b> I perform post-processing tasks, such as spell-checking, grammar-checking, and fluency evaluation.</li></ol></div> |

| U.S. Patent 7,398,209                                                                                                                                                            | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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|                                                                                                                                                                                  | Chat with Meta AI at <a href="https://www.meta.ai/">https://www.meta.ai/</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <p>[1.8] presenting results of the processed request to the user, the presented results generated as a result of the invoked domain agent processing the formulated request.</p> | <p>Meta AI meets this element.</p> <p>For example, Meta AI can gather weather and news information.</p> <div> <p>How do you select a domain agent based on a request and generate a response?</p>  </div> <p>I select a domain agent based on a request and generate a response through a combination of natural language processing (NLP) and machine learning (ML) techniques. Here's a step-by-step overview:</p> <p><b>Domain Agent Selection</b></p> <ol style="list-style-type: none"> <li><b>1. Intent Identification:</b> I use NLP to identify the intent behind the user's request.</li> <li><b>2. Entity Recognition:</b> I extract specific entities mentioned in the request, such as names, locations, or dates.</li> <li><b>3. Contextual Understanding:</b> I analyze the conversation history and context to disambiguate words and phrases.</li> <li><b>4. Domain Agent Mapping:</b> I map the identified intent and entities to a specific domain agent.</li> </ol> <p><b>Response Generation</b></p> <ol style="list-style-type: none"> <li><b>1. Domain Agent API Call:</b> I send a request to the selected domain agent's API endpoint, providing the necessary parameters.</li> <li><b>2. Response Receipt:</b> I receive the response from the domain agent, which may include data, recommendations, or actions.</li> <li><b>3. Response Processing:</b> I process the response to generate a user-friendly reply.</li> <li><b>4. Post-processing:</b> I perform post-processing tasks, such as spell-checking, grammar-checking, and fluency evaluation.</li> </ol> <p>Chat with Meta AI at <a href="https://www.meta.ai/">https://www.meta.ai/</a></p> <div> <br/> <br/> <br/> <br/> <br/>  </div> |

| U.S. Patent 7,398,209                  | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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|                                        |  <p>Tell me about the APIs you have access to?</p> <p>I have access to a wide range of APIs that allow me to generate images, search the internet, and provide information on a variety of topics. Here are some examples:</p> <ul style="list-style-type: none"> <li>• <b>Image generation APIs:</b> I can use APIs like DALL-E or other image generation models to create custom images based on text prompts.</li> <li>• <b>Search APIs:</b> I have access to search APIs that allow me to search the internet for information and provide relevant results.</li> <li>• <b>Knowledge graph APIs:</b> I can use APIs that provide access to vast knowledge graphs, which contain a vast amount of information on various topics.</li> <li>• <b>Language translation APIs:</b> I can use APIs to translate text from one language to another.</li> <li>• <b>Text summarization APIs:</b> I can use APIs to summarize long pieces of text into shorter, more digestible versions.</li> </ul> <p>Do you have access to weather and news?</p> <p>Yes, I have access to:</p> <ul style="list-style-type: none"> <li>• <b>Weather APIs:</b> I can provide current weather conditions, forecasts, and alerts for locations all over the world.</li> <li>• <b>News APIs:</b> I have access to news articles and headlines from a wide range of sources, including top news agencies and publications.</li> </ul> <p>I can provide information on:</p> <ul style="list-style-type: none"> <li>• Current weather conditions</li> <li>• Weather forecasts</li> <li>• Weather alerts</li> <li>• News headlines</li> <li>• News articles</li> <li>• Trending news topics</li> </ul> <p>Keep in mind that my access to weather and news data may be limited to a certain timeframe (e.g., recent news articles), and I may not always have access to the very latest updates.</p> <p>Chat with Meta AI at <a href="https://www.meta.ai/">https://www.meta.ai/</a></p> |
| [4.0] The method according to claim 1, | Meta AI performs this method. See claim 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

| U.S. Patent 7,398,209                                                                                                                                                                                                                             | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <p>wherein determining the context for the at least one request contained in the utterance includes:</p>                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <p>[4.1] matching the keywords contained in the recognized words and phrases to a dynamically updated set of keywords, the dynamically updated set of keywords associated with the dynamic set of prior probabilities or fuzzy possibilities;</p> | <p>Meta AI meets this element.</p> <p>For example, on information and belief,</p> <p>For example Meta AI parses requests from users and utilizes other context information when determining a response, including names, places, and other user data.</p> <p><b>Get gardening tips</b></p> <ul style="list-style-type: none"> <li>• "Hey Meta, how much water do these flowers need?"</li> </ul> <p><b>Express yourself</b></p> <ul style="list-style-type: none"> <li>• "Hey Meta, describe this landscape in an inspiring way."</li> <li>• "Hey Meta, write a funny poem about this dog."</li> </ul> <p><a href="https://www.meta.com/help/ai-glasses/718045509827730/?srsltid=AfmBOop6xE3KJ5XL5HmCQQIzjctE8BFBqWEHC-XoAVaV4lfqpicBGxUi">https://www.meta.com/help/ai-glasses/718045509827730/?srsltid=AfmBOop6xE3KJ5XL5HmCQQIzjctE8BFBqWEHC-XoAVaV4lfqpicBGxUi</a></p> <p>For example, requests to Meta AI may include instructions added by Meta such as:</p> <p><b>**Utilize User Data:</b> Evaluate the request in the user's most recent message to determine if incorporating their saved_facts, interests, location, age, and/or gender would provide a higher-quality response. It is possible that you will use multiple signals. While personalization is not always necessary, it is preferred if relevant. You can also adapt your tone to that of the user, when</p> |

| U.S. Patent 7,398,209 | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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|                       | <p>relevant.</p> <p>If your analysis determines that user data would enhance your responses, use the information in the following way:</p> <ul style="list-style-type: none"><li>• Saved_facts: Use saved_facts about the user to make the response feel personal and special. The saved_facts can fall into many different categories, so ensure that the facts you are incorporating are relevant to the request. Saved facts take priority over the other signals (interests, location, etc), such that if you have a data conflict (eg. saved facts says that the user doesn't drink alcohol, but interests include alcohol), saved_facts should be the source of truth.</li><li>• Interests: Use interest data to inform your suggestions when interests are relevant. Choose the most relevant of the user's interests based on the context of the query. Often, interests will also be relevant to location-based queries. Integrate interest information subtly. Eg. You should say "if you are interested in.." rather than "given your interest in.."</li><li>• Location: Use city data for location-specific queries or when asked for localized information. Default to using the city in the user's current location data, but if that is unavailable, use their home city. Often a user's interests can enhance location-based responses. If this is true for the user query, include interests as well as location.</li><li>• Age &amp; Gender: Age and gender are sensitive characteristics and should never be used to stereotype. These signals are relevant in situations where a user might be asking for educational information or entertainment options.</li></ul> <p>**</p> <p><a href="https://www.reddit.com/r/LocalLLaMA/comments/1g5np9i/meta_ais_hidden_prompt/">https://www.reddit.com/r/LocalLLaMA/comments/1g5np9i/meta_ais_hidden_prompt/</a></p> |

| U.S. Patent 7,398,209 | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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|                       | <p><b>How to change or delete your information from chats with AIs from Meta</b></p> <p>In Messenger, Instagram and WhatsApp, if an AI is referencing something incorrect about you in chat, like what type of movies you like, you can tell it right there in your chat with the AI. It should use the new information going forward.</p> <p>Sometimes an AI might get off-topic, or maybe you just want to delete the information that it has about you. Here are some of the controls that you have to reset the AIs from Meta. This works by deleting their copy of your messages and any saved details they might have about you.</p> <p>Since there are AIs on WhatsApp that are a Meta service, if you delete your chat in the app it'll only be deleted on WhatsApp. If you want to delete your messages from Meta, you'll need to use these commands.</p> <p><b>For individual chats with AIs from Meta:</b></p> <p>There's a command you can type into any individual chat on Messenger, Instagram or WhatsApp that will reset that AI. It does this by deleting the AI's copy of your messages, and the previous context of the conversation, which are the details saved about you that you've shared in that chat. You'll still see your copy of the chat with the AI, but it won't remember the previous messages.</p> <ul style="list-style-type: none"><li>• Type: /reset-ai</li></ul> <p><b>For your chats with AIs from Meta on that app:</b></p> <p>There's a command you can type into any individual chat you have with an AI on Messenger, Instagram or WhatsApp that will reset all the AIs on that app, including the ones that might be in group chats you're in. It does this by deleting the AIs' copies of your messages, and the previous context of the conversation, which are any saved details about you that you've shared in that chat. You'll still see your copies of these chats, but the AIs won't remember the previous messages.</p> <ul style="list-style-type: none"><li>• Type: /reset-all-ais</li></ul> <p>After you've used these commands, you can also clear this chat from your view using the delete chat steps in that app.</p> <p><a href="https://www.facebook.com/privacy/dialog/change-or-delete-ai-chat-info/">https://www.facebook.com/privacy/dialog/change-or-delete-ai-chat-info/</a></p> <p>Meta AI utilizes Natural Language Processing.</p> |

| U.S. Patent 7,398,209 | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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|                       | <div><div>How do you determine the meaning of voice utterances and their context?</div><div><div>I determine the meaning of voice utterances and their context by using a combination of natural language processing (NLP) and machine learning (ML) techniques. Here's a high-level overview of the steps involved:</div><div><div>1. <b>Speech Recognition:</b> I use automatic speech recognition (ASR) technology to transcribe the voice utterance into text.</div><div>2. <b>Tokenization:</b> I break the transcribed text into individual words or tokens.</div><div>3. <b>Part-of-Speech Tagging:</b> I identify the part of speech (such as noun, verb, adjective, etc.) for each token.</div><div>4. <b>Named Entity Recognition:</b> I identify specific entities mentioned in the text, such as names, locations, or dates.</div><div>5. <b>Dependency Parsing:</b> I analyze the grammatical structure of the sentence, including subject-verb relationships.</div><div>6. <b>Semantic Role Labeling:</b> I identify the roles played by entities in the sentence (e.g., "Who" did "what" to "whom").</div><div>7. <b>Contextual Understanding:</b> I use contextual information, such as conversation history, user preferences, and external knowledge, to disambiguate words and phrases.</div><div>8. <b>Intent Identification:</b> I determine the intent behind the voice utterance, such as booking a flight or setting a reminder.</div><div>9. <b>Slot Filling:</b> I extract specific information, such as dates or names, from the voice utterance.</div></div><div><div>I use various algorithms and techniques, including:</div><div><div>• <b>Machine learning models:</b> Trained on large datasets to learn patterns and relationships.</div><div>• <b>Deep learning models:</b> Such as recurrent neural networks (RNNs) and transformers.</div><div>• <b>Knowledge graphs:</b> To provide contextual information and disambiguate words and phrases.</div></div><div><div>By combining these techniques, I can accurately determine the meaning of voice utterances and their context, and provide relevant responses.</div></div></div><div>Chat with Meta AI at <a href="https://www.meta.ai/">https://www.meta.ai/</a></div><div>Meta AI also utilizing “Memory Boost” which retains information about a user from direct statements and context.</div></div></div> |

| U.S. Patent 7,398,209                                                                                                                                                                                                   | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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|                                                                                                                                                                                                                         | <p><b>Memory Boost</b></p> <p>At the close of last year, we began to gradually roll out a new feature that lets Meta AI remember certain details that you share with it in 1:1 chats on WhatsApp and Messenger, which may help it personalize future responses so they're more useful and relevant to you.</p> <p>You can tell Meta AI to remember certain things about you (like that you love to travel and learn new language), and it can also pick up important details based on context. For example, let's say you're hungry for breakfast and ask Meta AI for some ideas. It suggests an omelette or a fancy frittata, and you respond in the chat to let Meta AI know that you're a vegan. Meta AI can remember that information and use it to inform future recipe recommendations.</p> <p><a href="https://about.fb.com/news/2025/01/building-toward-a-smarter-more-personalized-assistant/">https://about.fb.com/news/2025/01/building-toward-a-smarter-more-personalized-assistant/</a></p> |
| [4.2] scoring one or more possible contexts for the matched keywords using one or more of a profile of the user, data content associated with the domain agents, or a context stack of one or more recent contexts; and | <p>Meta AI meets this element.</p> <p>For example, on information and belief, Meta AI scores one or more possible contexts for the matched keywords using one or more of a profile of the user, data content associated with the domain agents, or a context stack of one or more recent contexts</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

| U.S. Patent 7,398,209 | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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|                       | <div> <p>When interpreting queries, do you use scores when determining the correct context?</p> </div> <div>  </div> <div> <p>Yes, I use scores when determining the correct context when interpreting queries. These scores help me to evaluate the relevance and likelihood of different contexts, and to select the most appropriate one.</p> </div> <div>  </div> <div> <p>Here are some ways I use scores to determine context:</p> </div> <div> <ol style="list-style-type: none"> <li><b>Contextual Embeddings:</b> I use contextual embeddings, such as BERT or RoBERTa, to represent words and phrases in a high-dimensional vector space. These embeddings capture semantic relationships between words and can be used to score different contexts.</li> <li><b>Knowledge Graph-based Scoring:</b> I use knowledge graphs to represent entities, relationships, and concepts. When interpreting a query, I score different contexts based on their relevance to the knowledge graph.</li> <li><b>Machine Learning-based Scoring:</b> I employ machine learning models, such as neural networks or decision trees, to score different contexts based on features extracted from the query and context.</li> <li><b>Probabilistic Scoring:</b> I use probabilistic models, such as Bayesian networks or probabilistic graphical models, to score different contexts based on their probability of being relevant.</li> </ol> </div> <div> <p>Chat with Meta AI at <a href="https://www.meta.ai/">https://www.meta.ai/</a></p> </div> <div> <p>Meta AI utilizes the Meta’s Llama LLM.</p> </div> <div> <p><a href="https://ai.meta.com/open/?utm_medium=paidads&amp;utm_source=googleads&amp;utm_content=AIAdvocates&amp;utm_campaign=OpenSourceAIQ1-2025&amp;gad_source=1&amp;gclid=CjwKCAiAtYy9BhBcEiwANWQQL20Uk41BU2xNAVqVL4UfW7EHvti2gFuG-Z4fnQyrcXI-I5SfGgQ5hhoCIM4QAvD_BwE">https://ai.meta.com/open/?utm_medium=paidads&amp;utm_source=googleads&amp;utm_content=AIAdvocates&amp;utm_campaign=OpenSourceAIQ1-2025&amp;gad_source=1&amp;gclid=CjwKCAiAtYy9BhBcEiwANWQQL20Uk41BU2xNAVqVL4UfW7EHvti2gFuG-Z4fnQyrcXI-I5SfGgQ5hhoCIM4QAvD_BwE</a></p> </div> |

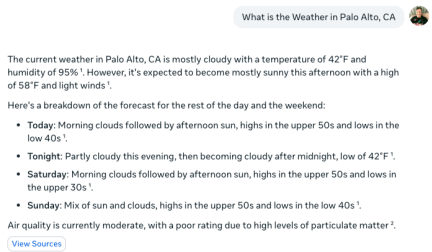
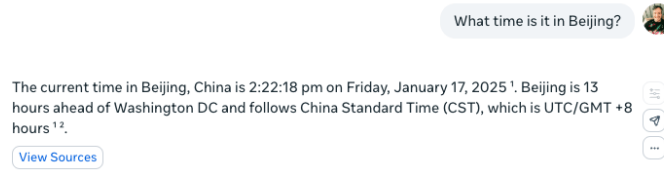
**Appendix A – 2025-07-16 Infringement Contentions**  
**U.S. Patent 7,398,209**

| <b>U.S. Patent 7,398,209</b>                                                                                                                | <b>Meta AI</b>                                                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                             |                                                                                                                                                                                                                                 |
| [4.3] determining the context by selecting one or more of the possible contexts having a score satisfying a predetermined confidence level. | <p>Meta AI meets this element.</p> <p>For example, on information and belief, Meta AI determining the context by selecting one or more of the possible contexts having a score satisfying a predetermined confidence level.</p> |

| U.S. Patent 7,398,209 | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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|                       | <div><div>When interpreting queries, do you use scores when determining the correct context and domain agents to use?</div><div><div><div>Yes, I use scores when determining the correct context and domain agents to use when interpreting queries. These scores help me to evaluate the relevance and likelihood of different contexts and domain agents, and to select the most appropriate ones.</div><div>Here are some ways I use scores:</div><div><div>1. <b>Context Scoring:</b> I score different contexts based on their relevance to the query, using techniques such as:<ul style="list-style-type: none"><li>Contextual embeddings (e.g., BERT, RoBERTa)</li><li>Knowledge graph-based relevance</li><li>Machine learning-based scoring</li></ul></div><div>2. <b>Domain Agent Scoring:</b> I score different domain agents based on their relevance to the query and context, using techniques such as:<ul style="list-style-type: none"><li>Domain agent embeddings (e.g., Doc2Vec, Word2Vec)</li><li>Knowledge graph-based relevance</li><li>Machine learning-based scoring</li></ul></div><div>3. <b>Intent Scoring:</b> I score different intents based on their likelihood of being the correct intent behind the query, using techniques such as:<ul style="list-style-type: none"><li>Intent embeddings (e.g., Intent2Vec)</li><li>Machine learning-based scoring</li><li>Knowledge graph-based relevance</li></ul></div></div><div>Chat with Meta AI at <a href="https://www.meta.ai/">https://www.meta.ai/</a></div></div><div><div></div></div></div></div> |

**Appendix A – 2025-07-16 Infringement Contentions**  
**U.S. Patent 7,398,209**

| U.S. Patent 7,398,209                                                                                                                                                 | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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|                                                                                                                                                                       | <div>Search for nearby restaurants. Which one is best?</div> <p>To help me find the best nearby restaurant for you, where are you located?</p> <div>Pearland, TX</div> <p>Looking for the best restaurants in Pearland, TX? Pearland has a vibrant dining scene with a variety of options to suit every taste. Here are some of the <b>Top Restaurants in Pearland</b>:</p> <p><b>Barbecue &amp; Tex-Mex Favorites</b></p> <ul style="list-style-type: none"> <li>• <b>Killen's Steakhouse</b>: Renowned for prime cuts of Japanese Wagyu and USDA Prime Beef.</li> <li>• <b>Killen's Barbecue</b>: Offers a quintessential Texas BBQ experience with mouth-watering barbecued meat.</li> <li>• <b>Gringo's Mexican Kitchen</b>: Authentic Tex-Mex dishes with generous portions and amazing margaritas.</li> </ul> <p><b>International Flavors</b></p> <ul style="list-style-type: none"> <li>• <b>D' Caribbean Curry Spot Cuisine</b>: Fusion of Indian and Caribbean cuisine with vibrant flavors.</li> <li>• <b>Grazia Italian Kitchen</b>: Artisanal wood-fired pizzas, fresh pasta, and delectable desserts.</li> <li>• <b>Thai Cottage</b>: Fresh and flavorful Thai curries and noodle dishes.</li> </ul> <p><b>Casual Eats &amp; Breweries</b></p> <ul style="list-style-type: none"> <li>• <b>Pena's Donut Heaven &amp; Grill</b>: Famous for over-the-top donuts and an unbeatable breakfast menu.</li> <li>• <b>BJ's Restaurant &amp; Brewhouse</b>: A crowd-pleaser for families with pizza, burgers, and craft brews.</li> <li>• <b>Center Court Pizza &amp; Brew</b>: Creative pizzas and refreshing craft beers in a sports bar vibe <sup>1 2 3</sup>.</li> </ul> <p>Would you like me to help you find more restaurants in Pearland or provide more details on any of these spots?</p> <div> <a href="#">best restaurants near Pe...</a> <a href="#">Sources</a> </div> <p>http://meta.ai</p> |
| <p>[6.0] The method according to claim 1, wherein formulating the at least one request in accordance with the grammar used by the selected domain agent includes:</p> | <p>Meta AI performs this method. See claim 1.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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| <p>[6.1] determining one or more required values and one or more optional values for a request in the grammar used by the selected domain agent;</p> | <p>Meta AI meets this element.</p> <p>For example, Meta AI will determine the weather based on time and location in the utterance.</p>  <p>What is the Weather in Palo Alto, CA</p> <p>The current weather in Palo Alto, CA is mostly cloudy with a temperature of 42°F and humidity of 95%<sup>1</sup>. However, it's expected to become mostly sunny this afternoon with a high of 58°F and light winds<sup>1</sup>.</p> <p>Here's a breakdown of the forecast for the rest of the day and the weekend:</p> <ul style="list-style-type: none"><li>• <b>Today:</b> Morning clouds followed by afternoon sun, highs in the upper 50s and lows in the low 40s<sup>1</sup>.</li><li>• <b>Tonight:</b> Partly cloudy this evening, then becoming cloudy after midnight, low of 42°F<sup>1</sup>.</li><li>• <b>Saturday:</b> Morning clouds followed by afternoon sun, highs in the upper 50s and lows in the upper 30s<sup>1</sup>.</li><li>• <b>Sunday:</b> Mix of sun and clouds, highs in the upper 50s and lows in the low 40s<sup>1</sup>.</li></ul> <p>Air quality is currently moderate, with a poor rating due to high levels of particulate matter<sup>1</sup>.</p> <p><a href="#">View Sources</a></p> <p>And Tomorrow?</p> <p>Tomorrow in Palo Alto, California, you can expect a partly cloudy day with highs in the upper 50s and lows in the upper 30s. There's a slight chance of precipitation, around 10%, with humidity levels ranging from 72% to 87%<sup>1</sup>.</p> <p>Here's a breakdown of what you can expect:</p> <ul style="list-style-type: none"><li>• <b>Morning:</b> Mostly cloudy with patchy fog</li><li>• <b>Afternoon:</b> Partly sunny with highs around 59°F</li><li>• <b>Evening:</b> Mostly clear skies with lows around 39°F</li><li>• <b>Wind:</b> Light and variable winds</li></ul> <p>Overall, it should be a pleasant day with plenty of sunshine. Just be prepared for some fog in the morning and cooler temperatures at night<sup>1</sup>.</p> <p><a href="#">View Sources</a></p> <p>Chat with Meta AI at <a href="https://www.meta.ai/">https://www.meta.ai/</a></p> <p>For example, Meta AI will determine time based on a given location.</p>  <p>What time is it in Beijing?</p> <p>The current time in Beijing, China is 2:22:18 pm on Friday, January 17, 2025<sup>1</sup>. Beijing is 13 hours ahead of Washington DC and follows China Standard Time (CST), which is UTC/GMT +8 hours<sup>1,2</sup>.</p> <p><a href="#">View Sources</a></p> <p>Chat with Meta AI at <a href="https://www.meta.ai/">https://www.meta.ai/</a></p> |
| <p>[6.2] extracting one or more criteria and one or more parameters</p>                                                                              | <p>Meta AI meets this element.</p> <p>For example, Meta AI extracts the criteria and parameters when determining weather forecasts and time</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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| <p>from the keywords contained in the recognized words and phrases using procedures sensitive to the determined context;</p> | <p>based on the user's query. These parameters and criteria are sensitive to the particular determined context.</p> <div><p>If I were to ask you what the weather was in Palo Alto, CA, how would you get that information from the weather API?</p><p>Here's a step-by-step overview of how I would retrieve the weather information for Palo Alto, CA:</p><ol style="list-style-type: none"><li><b>1. Text Analysis:</b> I analyze the user's request, "What's the weather in Palo Alto, CA?" using natural language processing (NLP) techniques.</li><li><b>2. Intent Identification:</b> I identify the intent behind the request as a "weather query".</li><li><b>3. Entity Extraction:</b> I extract the specific location mentioned in the request, which is "Palo Alto, CA".</li><li><b>4. Location Normalization:</b> I normalize the location to a standardized format, such as latitude and longitude coordinates (37.4443, -122.1623).</li><li><b>5. API Request:</b> I send a request to the weather API, providing the necessary parameters, such as:<ul style="list-style-type: none"><li>• Location (latitude and longitude coordinates)</li><li>• Units (e.g., Celsius or Fahrenheit)</li><li>• Language (e.g., English)</li></ul></li><li><b>6. API Response:</b> I receive the response from the weather API, which typically includes:<ul style="list-style-type: none"><li>• Current weather conditions (e.g., temperature, humidity, wind speed)</li><li>• Weather forecast (e.g., high and low temperatures, precipitation)</li></ul></li><li><b>7. Response Processing:</b> I process the response to generate a user-friendly reply, such as:<ul style="list-style-type: none"><li>• "The current weather in Palo Alto, CA is mostly sunny with a temperature of 75°F (24°C)."</li></ul></li></ol><p>Chat with Meta AI at <a href="https://www.meta.ai/">https://www.meta.ai/</a></p></div> |
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How do you extract criteria and parameters from a query to generate an API call?

I extract criteria and parameters from a query to generate an API call through a combination of natural language processing (NLP) and machine learning (ML) techniques. Here's a step-by-step overview:

1. **Text Analysis:** I analyze the user's query using NLP techniques, such as tokenization, part-of-speech tagging, and dependency parsing.

2. **Intent Identification:** I identify the intent behind the query, such as searching for weather information or retrieving a list of products.

3. **Entity Recognition:** I extract specific entities mentioned in the query, such as locations, dates, or product names.

4. **Parameter Extraction:** I extract specific parameters mentioned in the query, such as temperature units or sorting criteria.

5. **Criteria Identification:** I identify the criteria mentioned in the query, such as filtering by price or rating.

6. **API Mapping:** I map the extracted criteria, parameters, and entities to a specific API endpoint and request format.

7. **API Request Generation:** I generate the API request, including the endpoint, method (e.g., GET, POST), headers, and query parameters.

Chat with Meta AI at <https://www.meta.ai/>

Do you use context in that process?

Yes, I use context in the process of extracting criteria and parameters from a query to generate an API call. Context is essential to accurately understand the user's intent and extract the relevant information.

Here are some ways I use context:

1. **Conversation History:** I consider the conversation history to understand the user's previous queries and responses. This helps me to identify the context and extract relevant information.

2. **User Preferences:** I take into account user preferences, such as location, language, and units, to personalize the response and extract relevant information.

3. **Domain Knowledge:** I use domain-specific knowledge to understand the context and extract relevant information. For example, in a weather-related query, I know that "temperature" refers to the atmospheric temperature.

4. **Semantic Analysis:** I perform semantic analysis to understand the relationships between entities and concepts in the query. This helps me to identify the context and extract relevant information.

5. **Pragmatic Analysis:** I consider the pragmatic aspects of the query, such as the user's goals, intentions, and expectations. This helps me to understand the context and extract relevant information.

By considering context, I can:

• Disambiguate words and phrases with multiple meanings

• Identify implicit information and assumptions

• Extract relevant information and ignore irrelevant information

• Generate more accurate and relevant API calls

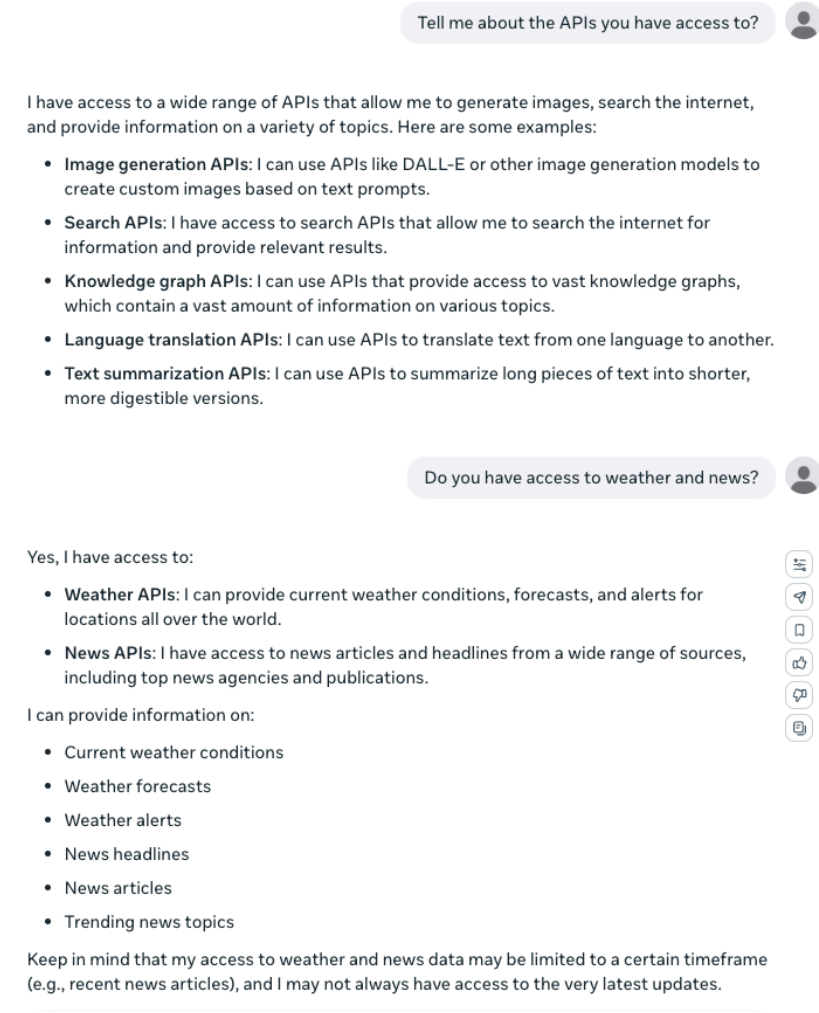
Context plays a crucial role in understanding the user's intent and extracting relevant information. By incorporating context into the process, I can provide more accurate and helpful responses.

Page 30 of 49  
Meta Platforms, Inc. - Exhibit 1013  
Page 30 of 49

|                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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|                                                                                                                                          | Chat with Meta AI at <a href="https://www.meta.ai/">https://www.meta.ai/</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| [6.3] inferring one or more criteria and one or more parameters using the dynamic set of prior probabilities or fuzzy possibilities; and | <p>Meta AI meets this element.</p> <p>For example, when requesting the weather in a location without specifying a time, Meta AI will infer a relevant time.</p> <div><p>What is the Weather in Palo Alto, CA </p><p>The current weather in Palo Alto, CA is mostly cloudy with a temperature of 42°F and humidity of 95%<sup>1</sup>. However, it's expected to become mostly sunny this afternoon with a high of 58°F and light winds<sup>1</sup>.</p><p>Here's a breakdown of the forecast for the rest of the day and the weekend:</p><ul style="list-style-type: none"><li>• <b>Today:</b> Morning clouds followed by afternoon sun, highs in the upper 50s and lows in the low 40s<sup>1</sup>.</li><li>• <b>Tonight:</b> Partly cloudy this evening, then becoming cloudy after midnight, low of 42°F<sup>1</sup>.</li><li>• <b>Saturday:</b> Morning clouds followed by afternoon sun, highs in the upper 50s and lows in the upper 30s<sup>1</sup>.</li><li>• <b>Sunday:</b> Mix of sun and clouds, highs in the upper 50s and lows in the low 40s<sup>1</sup>.</li></ul><p>Air quality is currently moderate, with a poor rating due to high levels of particulate matter<sup>2</sup>.</p><p><a href="#">View Sources</a></p><p>And Tomorrow? </p><p>Tomorrow in Palo Alto, California, you can expect a partly cloudy day with highs in the upper 50s and lows in the upper 30s. There's a slight chance of precipitation, around 10%, with humidity levels ranging from 72% to 87%<sup>1</sup>.</p><p>Here's a breakdown of what you can expect:</p><ul style="list-style-type: none"><li>• <b>Morning:</b> Mostly cloudy with patchy fog</li><li>• <b>Afternoon:</b> Partly sunny with highs around 59°F</li><li>• <b>Evening:</b> Mostly clear skies with lows around 39°F</li><li>• <b>Wind:</b> Light and variable winds</li></ul><p>Overall, it should be a pleasant day with plenty of sunshine. Just be prepared for some fog in the morning and cooler temperatures at night<sup>1,2</sup>.</p><p><a href="#">View Sources</a></p></div> <p>Chat with Meta AI at <a href="https://www.meta.ai/">https://www.meta.ai/</a></p> <p>Meta AI also uses other inferences.</p> |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <div> <div>How do you infer criteria and parameters from a query to generate an API call?</div> <div> <p>I infer criteria and parameters from a query to generate an API call through a combination of natural language processing (NLP) and machine learning (ML) techniques. Here's a step-by-step overview:</p> <ol style="list-style-type: none"> <li><b>1. Tokenization:</b> I break down the query into individual words or tokens.</li> <li><b>2. Part-of-Speech (POS) Tagging:</b> I identify the parts of speech (e.g., nouns, verbs, adjectives) for each token.</li> <li><b>3. Named Entity Recognition (NER):</b> I identify specific entities mentioned in the query, such as names, locations, or organizations.</li> <li><b>4. Dependency Parsing:</b> I analyze the grammatical structure of the query to identify relationships between entities.</li> <li><b>5. Semantic Role Labeling (SRL):</b> I identify the roles played by entities in the query (e.g., "Who" did "what" to "whom").</li> <li><b>6. Intent Identification:</b> I determine the intent behind the query, such as searching for information or performing an action.</li> <li><b>7. Parameter Extraction:</b> I extract specific parameters mentioned in the query, such as dates, times, or locations.</li> <li><b>8. Criteria Inference:</b> I infer criteria based on the query, such as filtering by price or rating.</li> </ol> <p>Some specific techniques I use to infer criteria and parameters include:</p> <ul style="list-style-type: none"> <li><b>Regular Expressions:</b> I use regular expressions to extract specific patterns or formats from the query.</li> <li><b>Machine Learning Models:</b> I employ machine learning models, such as conditional random fields or recurrent neural networks, to infer criteria and parameters.</li> <li><b>Knowledge Graphs:</b> I use knowledge graphs to provide contextual information and disambiguate words and phrases.</li> </ul> <p>By combining these techniques, I can accurately infer criteria and parameters from a query and generate an API call to retrieve the relevant information.</p> <p>Chat with Meta AI at <a href="https://www.meta.ai/">https://www.meta.ai/</a></p> </div> </div> |
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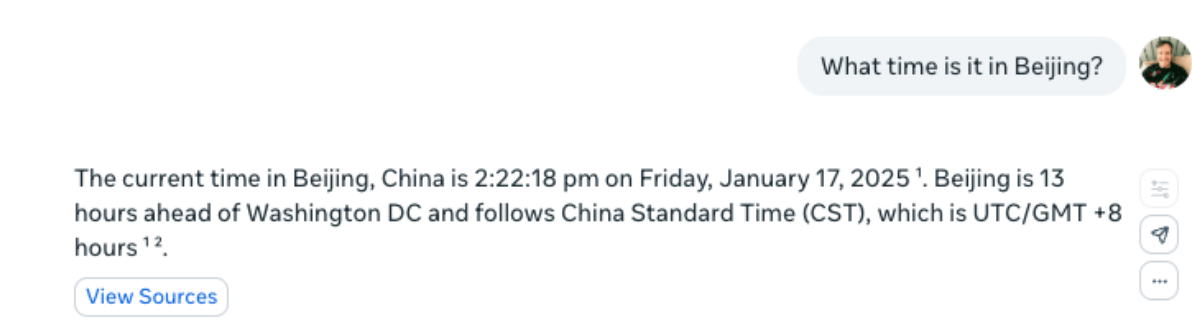
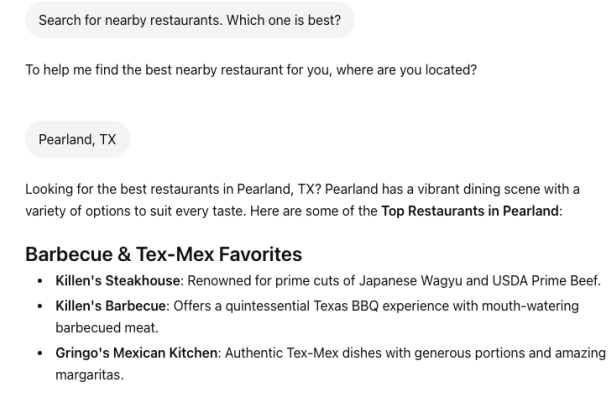
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| <b>U.S. Patent 7,398,209</b>                                                                                             | <b>Meta AI</b>                                                                                                                                                                                                                                          |
| [6.4] transforming the extracted and the inferred criteria and parameters into a format compatible with the grammar used | <p>Meta AI meets this element.</p> <p>For example, Meta AI also utilizes domain agents that allow it to access APIs. Upon information and belief, the APIs will use a specific grammar for requests including a transformed criteria and parameters</p> |

| U.S. Patent 7,398,209                                                                                                                              | Meta AI                                                                                                                                                                                                                                                                  |
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| by the selected domain agent, the transformed criteria and parameters including all of the required values and one or more of the optional values. | <p>so that it can be passed to a domain agent including required values and optional values.</p>  <p>Chat with Meta AI at <a href="https://www.meta.ai/">https://www.meta.ai/</a></p> |

| U.S. Patent 7,398,209 | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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|                       | <div><div>Do you use domain agents to access the APIs?</div><div></div><div><p>Yes, I use domain-specific agents to access the APIs. These agents are specialized software components that provide a standardized interface for accessing specific domains or APIs.</p><p>For example, I use domain agents for:</p><ul style="list-style-type: none"><li>• <b>Weather:</b> to access weather APIs and retrieve current conditions, forecasts, and alerts.</li><li>• <b>News:</b> to access news APIs and retrieve headlines, articles, and trending topics.</li><li>• <b>Images:</b> to access image generation APIs and create custom images based on text prompts.</li></ul><p>These domain agents allow me to:</p><ul style="list-style-type: none"><li>• Simplify API access</li><li>• Normalize API responses</li><li>• Provide a standardized interface for accessing different APIs</li></ul><p>This architecture enables me to provide a wide range of functionalities and access various APIs in a scalable and maintainable way.</p><p>Chat with Meta AI at <a href="https://www.meta.ai/">https://www.meta.ai/</a></p><p>For example, Meta AI will determine the weather based on time and location in the utterance.</p></div><div></div></div> |

Appendix A – 2025-07-16 Infringement Contentions  
U.S. Patent 7,398,209

| U.S. Patent 7,398,209 | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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|                       | <div><div>What is the Weather in Palo Alto, CA</div><div></div><div><p>The current weather in Palo Alto, CA is mostly cloudy with a temperature of 42°F and humidity of 95%<sup>1</sup>. However, it's expected to become mostly sunny this afternoon with a high of 58°F and light winds<sup>1</sup>.</p><p>Here's a breakdown of the forecast for the rest of the day and the weekend:</p><ul style="list-style-type: none"><li>• <b>Today:</b> Morning clouds followed by afternoon sun, highs in the upper 50s and lows in the low 40s<sup>1</sup>.</li><li>• <b>Tonight:</b> Partly cloudy this evening, then becoming cloudy after midnight, low of 42°F<sup>1</sup>.</li><li>• <b>Saturday:</b> Morning clouds followed by afternoon sun, highs in the upper 50s and lows in the upper 30s<sup>1</sup>.</li><li>• <b>Sunday:</b> Mix of sun and clouds, highs in the upper 50s and lows in the low 40s<sup>1</sup>.</li></ul><p>Air quality is currently moderate, with a poor rating due to high levels of particulate matter<sup>2</sup>.</p><div>View Sources</div></div><div><div>And Tomorrow?</div><div></div><div><p>Tomorrow in Palo Alto, California, you can expect a partly cloudy day with highs in the upper 50s and lows in the upper 30s. There's a slight chance of precipitation, around 10%, with humidity levels ranging from 72% to 87%<sup>1</sup>.</p><p>Here's a breakdown of what you can expect:</p><ul style="list-style-type: none"><li>• <b>Morning:</b> Mostly cloudy with patchy fog</li><li>• <b>Afternoon:</b> Partly sunny with highs around 59°F</li><li>• <b>Evening:</b> Mostly clear skies with lows around 39°F</li><li>• <b>Wind:</b> Light and variable winds</li></ul><p>Overall, it should be a pleasant day with plenty of sunshine. Just be prepared for some fog in the morning and cooler temperatures at night<sup>1,2</sup>.</p><div>View Sources</div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div>Chat with Meta AI at <a href="https://www.meta.ai/">https://www.meta.ai/</a></div><div>For example, Meta AI will determine time based on a given location.</div></div></div> |

| U.S. Patent 7,398,209                                                                                                                                                                                                             | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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|                                                                                                                                                                                                                                   |  <p>What time is it in Beijing?</p> <p>The current time in Beijing, China is 2:22:18 pm on Friday, January 17, 2025 <sup>1</sup>. Beijing is 13 hours ahead of Washington DC and follows China Standard Time (CST), which is UTC/GMT +8 hours <sup>1 2</sup>.</p> <p><a href="#">View Sources</a></p> <p>Chat with Meta AI at <a href="https://www.meta.ai/">https://www.meta.ai/</a></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| [7.0] The method according to claim 1, wherein the at least one request contained in the utterance includes at least one question and at least one command, wherein the invoked domain agent processes the formulated request by: | <p>Meta AI performs this method. See claim 1.</p> <p>For example, on information and belief, Meta AI can receive and act upon a request that includes both a question and a command.</p>  <p>Search for nearby restaurants. Which one is best?</p> <p>To help me find the best nearby restaurant for you, where are you located?</p> <p>Pearland, TX</p> <p>Looking for the best restaurants in Pearland, TX? Pearland has a vibrant dining scene with a variety of options to suit every taste. Here are some of the <b>Top Restaurants in Pearland</b>:</p> <p><b>Barbecue &amp; Tex-Mex Favorites</b></p> <ul style="list-style-type: none"><li>• <b>Killen's Steakhouse</b>: Renowned for prime cuts of Japanese Wagyu and USDA Prime Beef.</li><li>• <b>Killen's Barbecue</b>: Offers a quintessential Texas BBQ experience with mouth-watering barbecued meat.</li><li>• <b>Gringo's Mexican Kitchen</b>: Authentic Tex-Mex dishes with generous portions and amazing margaritas.</li></ul> <p><a href="https://www.meta.ai/">https://www.meta.ai/</a></p> |
| [7.1] directing the at                                                                                                                                                                                                            | Meta AI meets this element.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

| U.S. Patent 7,398,209                                        | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| least one command to local or remote processing devices; and | <p>For example, on information and belief, domain agents as part of Meta AI will direct commands to local or remote processing devices to process the formulated request.</p> <div><div>Tell me about the APIs you have access to?</div><div></div></div> <p>I have access to a wide range of APIs that allow me to generate images, search the internet, and provide information on a variety of topics. Here are some examples:</p> <ul style="list-style-type: none"><li>• <b>Image generation APIs:</b> I can use APIs like DALL-E or other image generation models to create custom images based on text prompts.</li><li>• <b>Search APIs:</b> I have access to search APIs that allow me to search the internet for information and provide relevant results.</li><li>• <b>Knowledge graph APIs:</b> I can use APIs that provide access to vast knowledge graphs, which contain a vast amount of information on various topics.</li><li>• <b>Language translation APIs:</b> I can use APIs to translate text from one language to another.</li><li>• <b>Text summarization APIs:</b> I can use APIs to summarize long pieces of text into shorter, more digestible versions.</li></ul> <div><div>Do you have access to weather and news?</div><div></div></div> <p>Yes, I have access to:</p> <ul style="list-style-type: none"><li>• <b>Weather APIs:</b> I can provide current weather conditions, forecasts, and alerts for locations all over the world.</li><li>• <b>News APIs:</b> I have access to news articles and headlines from a wide range of sources, including top news agencies and publications.</li></ul> <p>I can provide information on:</p> <ul style="list-style-type: none"><li>• Current weather conditions</li><li>• Weather forecasts</li><li>• Weather alerts</li><li>• News headlines</li><li>• News articles</li><li>• Trending news topics</li></ul> <p>Keep in mind that my access to weather and news data may be limited to a certain timeframe (e.g., recent news articles), and I may not always have access to the very latest updates.</p> <p>Chat with Meta AI at <a href="https://www.meta.ai/">https://www.meta.ai/</a></p> |

| U.S. Patent 7,398,209                                                                                              | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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|                                                                                                                    | <div><div>Do you use domain agents to access the APIs?</div><div><div>Yes, I use domain-specific agents to access the APIs. These agents are specialized software components that provide a standardized interface for accessing specific domains or APIs.</div><div>For example, I use domain agents for:<ul style="list-style-type: none"><li>• <b>Weather:</b> to access weather APIs and retrieve current conditions, forecasts, and alerts.</li><li>• <b>News:</b> to access news APIs and retrieve headlines, articles, and trending topics.</li><li>• <b>Images:</b> to access image generation APIs and create custom images based on text prompts.</li></ul></div><div>These domain agents allow me to:<ul style="list-style-type: none"><li>• Simplify API access</li><li>• Normalize API responses</li><li>• Provide a standardized interface for accessing different APIs</li></ul></div><div>This architecture enables me to provide a wide range of functionalities and access various APIs in a scalable and maintainable way.</div></div><div>Chat with Meta AI at <a href="https://www.meta.ai/">https://www.meta.ai/</a></div></div> |
| [7.2] querying local or network information sources to resolve information requested in the at least one question. | <p>Meta AI meets this element.</p> <p>For example, on information and belief, Meta queries one or more network information sources to resolve information requested.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

| U.S. Patent 7,398,209                                                                                           | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                 | <div> <div>Search for nearby restaurants. Which one is best?</div> <div>To help me find the best nearby restaurant for you, where are you located?</div> <div>Pearland, TX</div> <div>Looking for the best restaurants in Pearland, TX? Pearland has a vibrant dining scene with a variety of options to suit every taste. Here are some of the <b>Top Restaurants in Pearland</b>:</div> <div> <b>Barbecue &amp; Tex-Mex Favorites</b> <ul style="list-style-type: none"> <li>• <b>Killen's Steakhouse</b>: Renowned for prime cuts of Japanese Wagyu and USDA Prime Beef.</li> <li>• <b>Killen's Barbecue</b>: Offers a quintessential Texas BBQ experience with mouth-watering barbecued meat.</li> <li>• <b>Gringo's Mexican Kitchen</b>: Authentic Tex-Mex dishes with generous portions and amazing margaritas.</li> </ul> </div> <div> <b>International Flavors</b> <ul style="list-style-type: none"> <li>• <b>D' Caribbean Curry Spot Cuisine</b>: Fusion of Indian and Caribbean cuisine with vibrant flavors.</li> <li>• <b>Grazia Italian Kitchen</b>: Artisanal wood-fired pizzas, fresh pasta, and delectable desserts.</li> <li>• <b>Thai Cottage</b>: Fresh and flavorful Thai curries and noodle dishes.</li> </ul> </div> <div> <b>Casual Eats &amp; Breweries</b> <ul style="list-style-type: none"> <li>• <b>Pena's Donut Heaven &amp; Grill</b>: Famous for over-the-top donuts and an unbeatable breakfast menu.</li> <li>• <b>BJ's Restaurant &amp; Brewhouse</b>: A crowd-pleaser for families with pizza, burgers, and craft brews.</li> <li>• <b>Center Court Pizza &amp; Brew</b>: Creative pizzas and refreshing craft beers in a sports bar vibe <sup>1 2 3</sup>.</li> </ul> </div> <div>Would you like me to help you find more restaurants in Pearland or provide more details on any of these spots?</div> <div> <div>best restaurants near Pe...</div> <div>Sources</div> </div> </div> |
| [8.0] The method according to claim 7, wherein querying the local or network information sources to resolve the | <a href="http://meta.ai">http://meta.ai</a><br>Meta AI performs this method. See claim 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

**Appendix A – 2025-07-16 Infringement Contentions**  
**U.S. Patent 7,398,209**

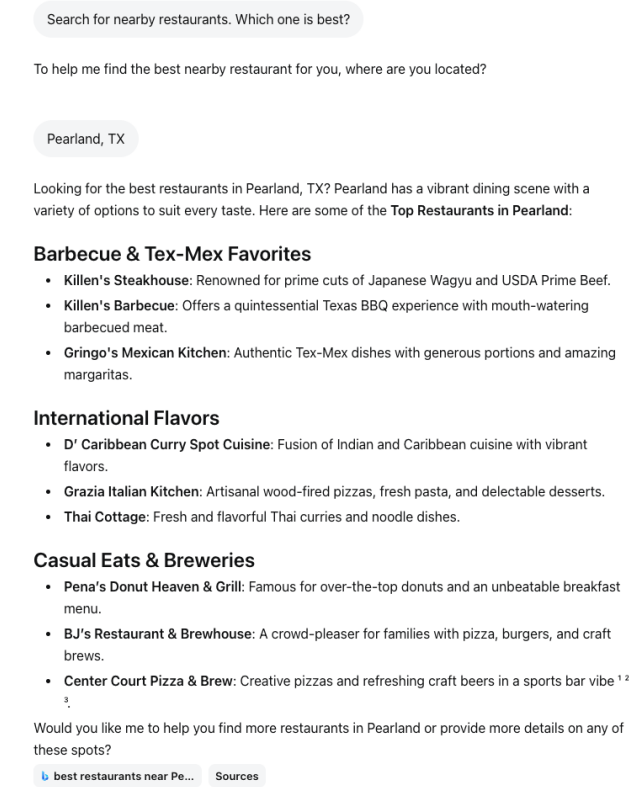
| <b>U.S. Patent 7,398,209</b>                                                                                                                                                                    | <b>Meta AI</b>                                                                                                                                                                                                                                                         |
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| information requested in the at least one question includes:                                                                                                                                    |                                                                                                                                                                                                                                                                        |
| [8.1] submitting a plurality of asynchronous queries to the information sources, the plurality of queries including a plurality of duplicate queries submitted to distinct information sources; | <p>Meta AI meets this element.</p> <p>For example, on information and belief, Meta AI retrieves information by requesting information from multiple information sources using a plurality of asynchronous queries including duplicate queries to multiple sources.</p> |

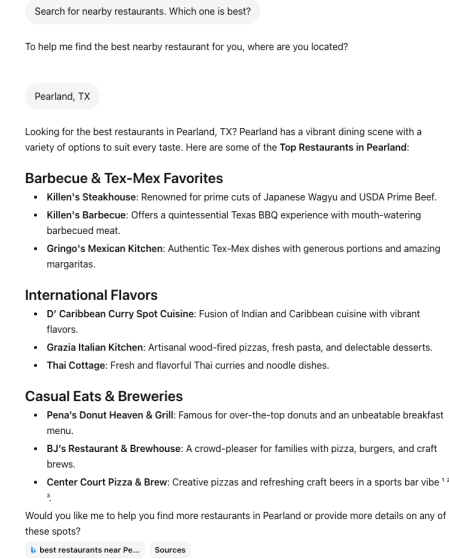
| U.S. Patent 7,398,209 | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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|                       | <div>Search for nearby restaurants. Which one is best?</div> <p>To help me find the best nearby restaurant for you, where are you located?</p> <div>Pearland, TX</div> <p>Looking for the best restaurants in Pearland, TX? Pearland has a vibrant dining scene with a variety of options to suit every taste. Here are some of the <b>Top Restaurants in Pearland</b>:</p> <p><b>Barbecue &amp; Tex-Mex Favorites</b></p> <ul style="list-style-type: none"><li>• <b>Killen's Steakhouse</b>: Renowned for prime cuts of Japanese Wagyu and USDA Prime Beef.</li><li>• <b>Killen's Barbecue</b>: Offers a quintessential Texas BBQ experience with mouth-watering barbecued meat.</li><li>• <b>Gringo's Mexican Kitchen</b>: Authentic Tex-Mex dishes with generous portions and amazing margaritas.</li></ul> <p><b>International Flavors</b></p> <ul style="list-style-type: none"><li>• <b>D' Caribbean Curry Spot Cuisine</b>: Fusion of Indian and Caribbean cuisine with vibrant flavors.</li><li>• <b>Grazia Italian Kitchen</b>: Artisanal wood-fired pizzas, fresh pasta, and delectable desserts.</li><li>• <b>Thai Cottage</b>: Fresh and flavorful Thai curries and noodle dishes.</li></ul> <p><b>Casual Eats &amp; Breweries</b></p> <ul style="list-style-type: none"><li>• <b>Pena's Donut Heaven &amp; Grill</b>: Famous for over-the-top donuts and an unbeatable breakfast menu.</li><li>• <b>BJ's Restaurant &amp; Brewhouse</b>: A crowd-pleaser for families with pizza, burgers, and craft brews.</li><li>• <b>Center Court Pizza &amp; Brew</b>: Creative pizzas and refreshing craft beers in a sports bar vibe <sup>1 2</sup><br/><sup>3</sup></li></ul> <p>Would you like me to help you find more restaurants in Pearland or provide more details on any of these spots?</p> <div><div>best restaurants near Pe...</div><div>Sources</div></div> <p><a href="http://meta.ai">http://meta.ai</a></p> |

| U.S. Patent 7,398,209 | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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|                       | <div> <p>Tell me about the APIs you have access to?</p>  </div> <p>I have access to a wide range of APIs that allow me to generate images, search the internet, and provide information on a variety of topics. Here are some examples:</p> <ul style="list-style-type: none"> <li>• <b>Image generation APIs:</b> I can use APIs like DALL-E or other image generation models to create custom images based on text prompts.</li> <li>• <b>Search APIs:</b> I have access to search APIs that allow me to search the internet for information and provide relevant results.</li> <li>• <b>Knowledge graph APIs:</b> I can use APIs that provide access to vast knowledge graphs, which contain a vast amount of information on various topics.</li> <li>• <b>Language translation APIs:</b> I can use APIs to translate text from one language to another.</li> <li>• <b>Text summarization APIs:</b> I can use APIs to summarize long pieces of text into shorter, more digestible versions.</li> </ul> <div> <p>Do you have access to weather and news?</p>  </div> <p>Yes, I have access to:</p> <ul style="list-style-type: none"> <li>• <b>Weather APIs:</b> I can provide current weather conditions, forecasts, and alerts for locations all over the world.</li> <li>• <b>News APIs:</b> I have access to news articles and headlines from a wide range of sources, including top news agencies and publications.</li> </ul> <p>I can provide information on:</p> <ul style="list-style-type: none"> <li>• Current weather conditions</li> <li>• Weather forecasts</li> <li>• Weather alerts</li> <li>• News headlines</li> <li>• News articles</li> <li>• Trending news topics</li> </ul> <p>Keep in mind that my access to weather and news data may be limited to a certain timeframe (e.g., recent news articles), and I may not always have access to the very latest updates.</p> <hr/> <p>Chat with Meta AI at <a href="https://www.meta.ai/">https://www.meta.ai/</a></p> <div> <br/> <br/> <br/> <br/> <br/>  </div> |

| U.S. Patent 7,398,209                                                                                  | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| [8.2] asynchronously receiving a plurality of results of the queries from the information sources; and | <p>Meta AI meets this element.</p> <p>For example, on information and belief, as discussed above, Meta AI receives multiple responses from various websites and other APIs.</p> <div><p>Search for nearby restaurants. Which one is best?</p><p>To help me find the best nearby restaurant for you, where are you located?</p><p>Pearland, TX</p><p>Looking for the best restaurants in Pearland, TX? Pearland has a vibrant dining scene with a variety of options to suit every taste. Here are some of the <b>Top Restaurants in Pearland</b>:</p><p><b>Barbecue &amp; Tex-Mex Favorites</b></p><ul style="list-style-type: none"><li>• <b>Killen's Steakhouse</b>: Renowned for prime cuts of Japanese Wagyu and USDA Prime Beef.</li><li>• <b>Killen's Barbecue</b>: Offers a quintessential Texas BBQ experience with mouth-watering barbecued meat.</li><li>• <b>Gringo's Mexican Kitchen</b>: Authentic Tex-Mex dishes with generous portions and amazing margaritas.</li></ul><p><b>International Flavors</b></p><ul style="list-style-type: none"><li>• <b>D' Caribbean Curry Spot Cuisine</b>: Fusion of Indian and Caribbean cuisine with vibrant flavors.</li><li>• <b>Grazia Italian Kitchen</b>: Artisanal wood-fired pizzas, fresh pasta, and delectable desserts.</li><li>• <b>Thai Cottage</b>: Fresh and flavorful Thai curries and noodle dishes.</li></ul><p><b>Casual Eats &amp; Breweries</b></p><ul style="list-style-type: none"><li>• <b>Pena's Donut Heaven &amp; Grill</b>: Famous for over-the-top donuts and an unbeatable breakfast menu.</li><li>• <b>BJ's Restaurant &amp; Brewhouse</b>: A crowd-pleaser for families with pizza, burgers, and craft brews.</li><li>• <b>Center Court Pizza &amp; Brew</b>: Creative pizzas and refreshing craft beers in a sports bar vibe <sup>1 2 3</sup>.</li></ul><p>Would you like me to help you find more restaurants in Pearland or provide more details on any of these spots?</p><div><p>best restaurants near Pe... Sources</p></div></div> <p><a href="http://meta.ai">http://meta.ai</a></p> |
| [8.3] scoring a                                                                                        | Meta AI meets this element.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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| <b>U.S. Patent 7,398,209</b>                                                                                                                                                                              | <b>Meta AI</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <p>relevance of each of the asynchronously received results using the dynamic set of prior probabilities or fuzzy possibilities to determine one or more best responses to the at least one question.</p> | <p>For example, on information and belief, Meta will evaluate the received the results and score their relevance using a dynamic set of prior probabilities or fuzzy possibilities to determine one or more best responses to the at least one question via its LLM.</p> <p><b>Use and manage Meta AI assistant on Meta Quest</b></p> <p>★ 46 Likes Updated: 9 weeks ago</p> <div style="border: 1px solid #ccc; padding: 5px; margin: 10px 0;"> <p>Note: Meta AI assistant is currently only available to users 13+ using Meta Quest in the United States and Canada with English set as the default language.</p> </div> <p>Meta AI will be replacing Voice Commands in the US and Canada. The Meta AI assistant is powered by Meta's latest AI model and offers three exciting capabilities:</p> <ol style="list-style-type: none"> <li>1. <b>System Interactions:</b> Enables you to quickly navigate and perform tasks through Horizon OS such as turning up the volume, or opening your camera roll.</li> <li>2. <b>LLM Chatbot (LLM):</b> Allows you to tap into Meta's AI capabilities to have conversations and get access to real-time information such as explaining calculus, or writing a poem in real-time.</li> <li>3. <b>Meta AI with Vision:</b> Enables you to use MultiModal capabilities to better understand what you see in Passthrough such as looking at a plant and telling you what type it is, or being able to translate foreign text into English.</li> </ol> <p>Users who are 13+ in the US and Canada can experience Meta AI assistant on their Quest 3, Quest Pro and Quest 2 headsets. Users will need to manually enable Meta AI capabilities using the Experimental Tab in System Settings. Meta AI is not offered to Quest for Business users and this toggle will be disabled for Quest for Business users.</p> <p><a href="https://www.meta.com/help/quest/486179404363222/?srsltid=AfmBOooR2gW_slFIxtAsft-e21UtQk2MyoPcBehYOdR7VY_AMBQPiHOe">https://www.meta.com/help/quest/486179404363222/?srsltid=AfmBOooR2gW_slFIxtAsft-e21UtQk2MyoPcBehYOdR7VY_AMBQPiHOe</a></p> |
| <p>[9.0] The method according to claim 8, wherein determining the one or more best responses to the at least one question includes:</p>                                                                   | <p>Meta AI performs this method. See claim 8.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p>[9.1] determining one or more tokens</p>                                                                                                                                                               | <p>Meta AI meets this element.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

| U.S. Patent 7,398,209                                         | Meta AI                                                                                                                                                                                                                                                                                                                                                                                      |
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| required to formulate a response to the question;             | <p>For example, on information and belief, Meta AI scores the relevance associated with the multiple asynchronously received results to determine the one or more best responses determining one or more tokens required to formulate a response to the at least one question.</p>  <p>http://meta.ai</p> |
| [9.2] extracting one or more values for the determined tokens | <p>Meta AI meets this element.</p> <p>For example, on information and belief, Meta AI receives information from websites and applies scraping</p>                                                                                                                                                                                                                                            |

| U.S. Patent 7,398,209                                                                                                                                                                                                        | Meta AI                                                                                                                                                                                                                                                                                                                                           |
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| from the asynchronously received results, the one or more values extracted by applying one or more scraping criteria to the asynchronously received results;                                                                 | <p>criteria to the information to extract one or more values for the received results.</p>  <p><a href="http://meta.ai">http://meta.ai</a></p>                                                                                                                   |
| [9.3] evaluating the extracted values using the dynamic set of prior probabilities or fuzzy possibilities, wherein evaluating the extracted values includes resolving ambiguous, incomplete, or conflicting information; and | <p>Meta AI meets this element.</p> <p>For example, on information and belief, Meta AI, via its LLM, employs a dynamic set of prior probabilities or fuzzy possibilities to resolve ambiguous, incomplete, or conflicting information associated with the one or more extracted values. This also includes prior chat history and saved facts.</p> |

| U.S. Patent 7,398,209 | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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|                       | <div><div>What is the Weather in Palo Alto, CA</div><div><p>The current weather in Palo Alto, CA is mostly cloudy with a temperature of 42°F and humidity of 95% <sup>1</sup>. However, it's expected to become mostly sunny this afternoon with a high of 58°F and light winds <sup>1</sup>.</p><p>Here's a breakdown of the forecast for the rest of the day and the weekend:</p><ul style="list-style-type: none"><li>• <b>Today:</b> Morning clouds followed by afternoon sun, highs in the upper 50s and lows in the low 40s <sup>1</sup>.</li><li>• <b>Tonight:</b> Partly cloudy this evening, then becoming cloudy after midnight, low of 42°F <sup>1</sup>.</li><li>• <b>Saturday:</b> Morning clouds followed by afternoon sun, highs in the upper 50s and lows in the upper 30s <sup>1</sup>.</li><li>• <b>Sunday:</b> Mix of sun and clouds, highs in the upper 50s and lows in the low 40s <sup>1</sup>.</li></ul><p>Air quality is currently moderate, with a poor rating due to high levels of particulate matter <sup>2</sup>.</p><p><a href="#">View Sources</a></p></div></div> <div><div>And Tomorrow?</div><div><p>Tomorrow in Palo Alto, California, you can expect a partly cloudy day with highs in the upper 50s and lows in the upper 30s. There's a slight chance of precipitation, around 10%, with humidity levels ranging from 72% to 87% <sup>1</sup>.</p><p>Here's a breakdown of what you can expect:</p><ul style="list-style-type: none"><li>• <b>Morning:</b> Mostly cloudy with patchy fog</li><li>• <b>Afternoon:</b> Partly sunny with highs around 59°F</li><li>• <b>Evening:</b> Mostly clear skies with lows around 39°F</li><li>• <b>Wind:</b> Light and variable winds</li></ul><p>Overall, it should be a pleasant day with plenty of sunshine. Just be prepared for some fog in the morning and cooler temperatures at night <sup>1</sup>.</p><p><a href="#">View Sources</a></p></div></div> <p>Chat with Meta AI at <a href="https://www.meta.ai/">https://www.meta.ai/</a></p> <p><b>**Utilize User Data:</b> Evaluate the request in the user's most recent message to determine if incorporating their saved_facts, interests, location, age, and/or gender would provide a higher-quality response. It is possible that you will use multiple signals. While personalization is not always necessary, it is preferred if relevant. You can also adapt your tone to that of the user, when relevant.</p> <p>If your analysis determines that user data would enhance your responses, use the information in the following way:</p> |

| <b>U.S. Patent 7,398,209</b>                                                                                                                                                      | <b>Meta AI</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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|                                                                                                                                                                                   | <ul style="list-style-type: none"><li>• Saved_facts: Use saved_facts about the user to make the response feel personal and special. The saved_facts can fall into many different categories, so ensure that the facts you are incorporating are relevant to the request. Saved facts take priority over the other signals (interests, location, etc), such that if you have a data conflict (eg. saved facts says that the user doesn't drink alcohol, but interests include alcohol), saved_facts should be the source of truth.</li><li>• Interests: Use interest data to inform your suggestions when interests are relevant. Choose the most relevant of the user's interests based on the context of the query. Often, interests will also be relevant to location-based queries. Integrate interest information subtly. Eg. You should say "if you are interested in.." rather than "given your interest in.."</li><li>• Location: Use city data for location-specific queries or when asked for localized information. Default to using the city in the user's current location data, but if that is unavailable, use their home city. Often a user's interests can enhance location-based responses. If this is true for the user query, include interests as well as location.</li><li>• Age &amp; Gender: Age and gender are sensitive characteristics and should never be used to stereotype. These signals are relevant in situations where a user might be asking for educational information or entertainment options.</li></ul> <p style="text-align: center;">**</p> <p><a href="https://www.reddit.com/r/LocalLLaMA/comments/1g5np9i/meta_ais_hidden_prompt/">https://www.reddit.com/r/LocalLLaMA/comments/1g5np9i/meta_ais_hidden_prompt/</a></p> |
| [9.4] selecting one or more best values for the determined tokens from the evaluated values, wherein the one or more best responses include the one or more selected best values. | <p>Meta AI meets this element.</p> <p>For example, on information and belief, Meta AI selects one or more best values for the determined tokens from the evaluated values, wherein the one or more best responses include the one or more selected best values.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

Appendix A – 2025-07-16 Infringement Contentions  
U.S. Patent 7,398,209

| U.S. Patent 7,398,209 | Meta AI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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