

Patentability Search for Mother and Newborn Matching Detection Algorithm

Overview

Wissen Research's global reputation as a patent prosecution support provider is why our client approached us to perform a patentability search on a mother and newborn matching detection algorithm.

Medical complications occur in women after giving birth to a child and postpartum visits have many effects like inadequate iron levels, blood pressure, emotional changes, infections, and bleeding. Managed care organizations utilize medical claims data, communication from health care providers, prescription records for prenatal vitamins, coordinate prenatal care needs, and detect births.

About Main Invention

The main invention involves the organization of discrete matching fields.

- Weight scores are assigned for exact, partial, or fuzzy matching of personal data between mother and newborn.
- Weight scores are penalized when there is no matching of personal data between mother and newborn.
- The summation of match weight scores and non-match weight scores to provide an overall weight score.
- A quality assessment check compares the overall weight score with the threshold.



Invention Challenges

The newborns lack identifiable information such as a name and social security number.

Other information associated with a newborn, such as a phone number, email address, and address where the newborn will reside, is provided by a person on behalf of the newborn.

The personal information provided on behalf of the newborn is used to match mothers to newborns, and this approach has proved successful with several customers.

Strategy

After thoroughly understanding the main invention, we conducted a patentability search and identified key terms and major classes. We identified a couple of documents and patents that mention using the EHR of two patients for identification and assigning weight scores for matching records.

A combination of patents and documents that fulfill the objective of inventions; however, no such patent or document that mentions :



Patentability Challenges

Any individual document or patent can't fulfill the objective of invention, so we found in- combination of patents and documents.

The concept of matching mother and newborn personal data with this algorithm is a very challenging part.

The main challenge is that mothers can be eligible for postpartum care.



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Conclusion

We found a combination of patents documents that fulfill the and objective of inventions, which discloses that in an algorithm for matching the personal data of a child and newborn, weight scores are assigned for exact match and also assign a penalized weight score for no matching of records between mother and newborn. Summation of all match weight scores, and nonmatch weight scores are used to provide an overall total score, and then assessment is done to compare the overall total score with а threshold.

Tip

When conducting a patentability search for a matching algorithm between mothers and newborns, focus on identifying prior art in related fields such as healthcare, childcare, and technology. Utilize specialized patent databases, keyword searches, and classification codes to uncover relevant patents and publications. Additionally, consider consulting with experts in the fields of neonatal care, artificial intelligence, and data science to ensure a comprehensive search strategy. Use generic keywords in field of healthcare, childcare, postpartum care, electronic health records.



Expert

Mohini serves as a patent analyst at Wissen Research, specializing in technologies within electronics and communication like semiconductors, digital electronics, IOT, embedded system and wireless communication technology. Leading diverse intellectual property initiatives, Mohini conducts novelty searches, invalidation assessments and technology-related projects. She holds a bachelor's and master's degree in Electronics and communication engineering.

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