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(54) Title: POLYMER REPRESENTATION LEARNING MODEL

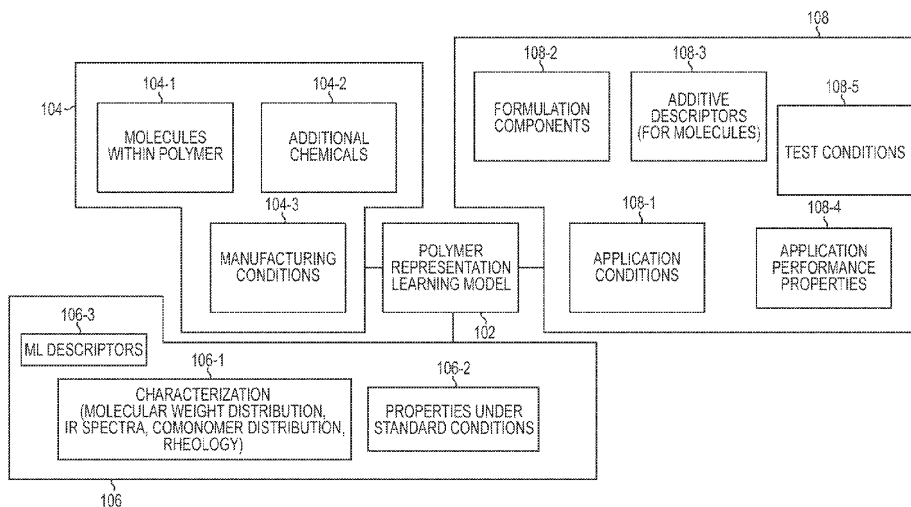


FIG. 1

(57) Abstract: A polymer representation learning model can receive inputs and be operated to learn embeddings for a class of polymers based on the inputs. The polymer representation learning model can provide a recommendation related to production of a particular polymer within the class of polymers or application of the particular polymer based on the embedding for the class of polymers and the inputs. The inputs can include various data instances. The various data instances can be descriptive of a respective polymer within the class of polymers, production of a respective polymer within the class of polymers, or application of a respective polymer within the class of polymers. The various data instances can include different data types, such as numerical data, images, paired x-y series data, structure graphs, formulation graphs, and text data.

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MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA,
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