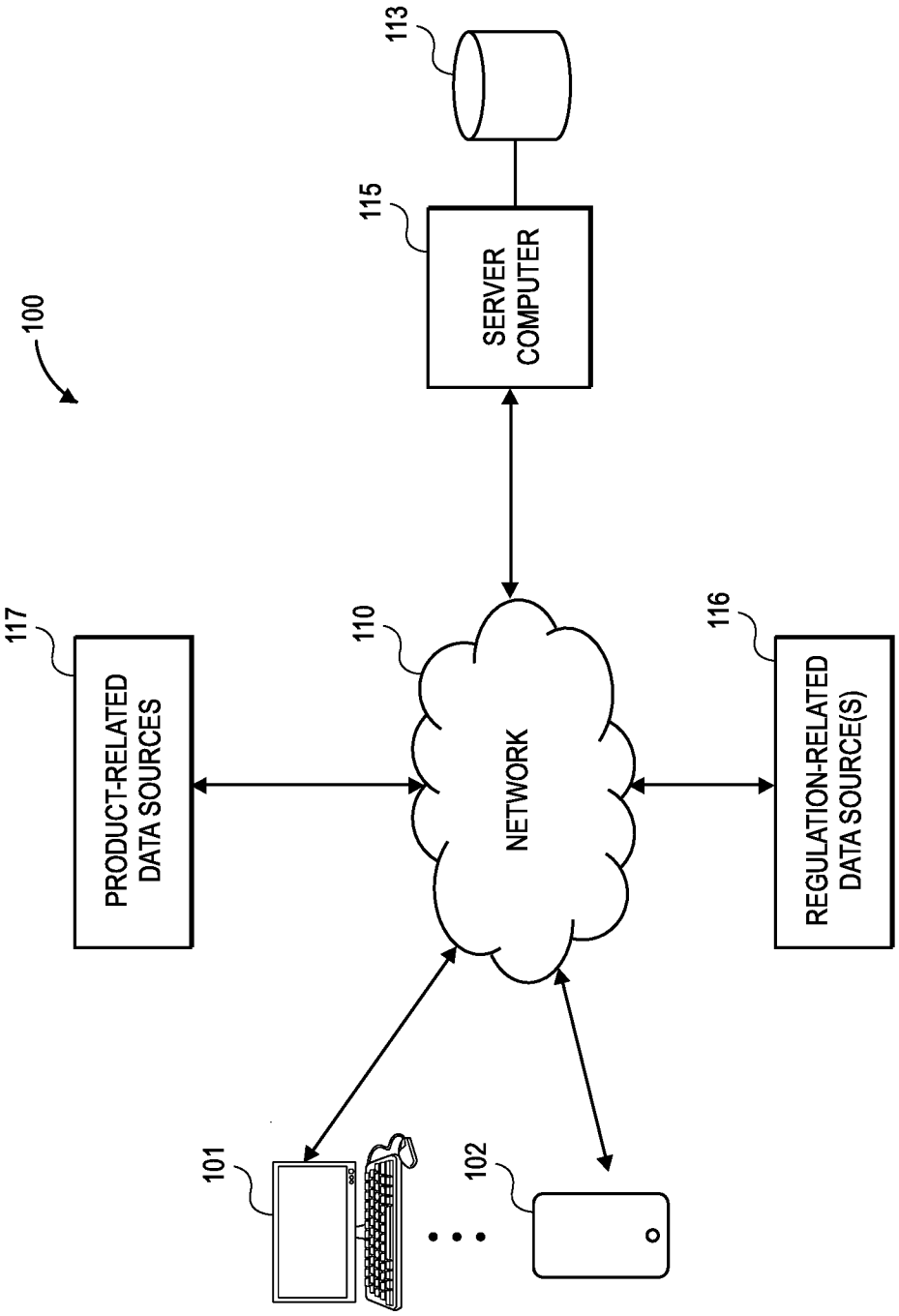
100
113
115
SERVER COMPUTER
117
PRODUCT-RELATED DATA SOURCES
110
NETWORK
116
REGULATION-RELATED DATA SOURCE(S)
101
102

FIG. 1A

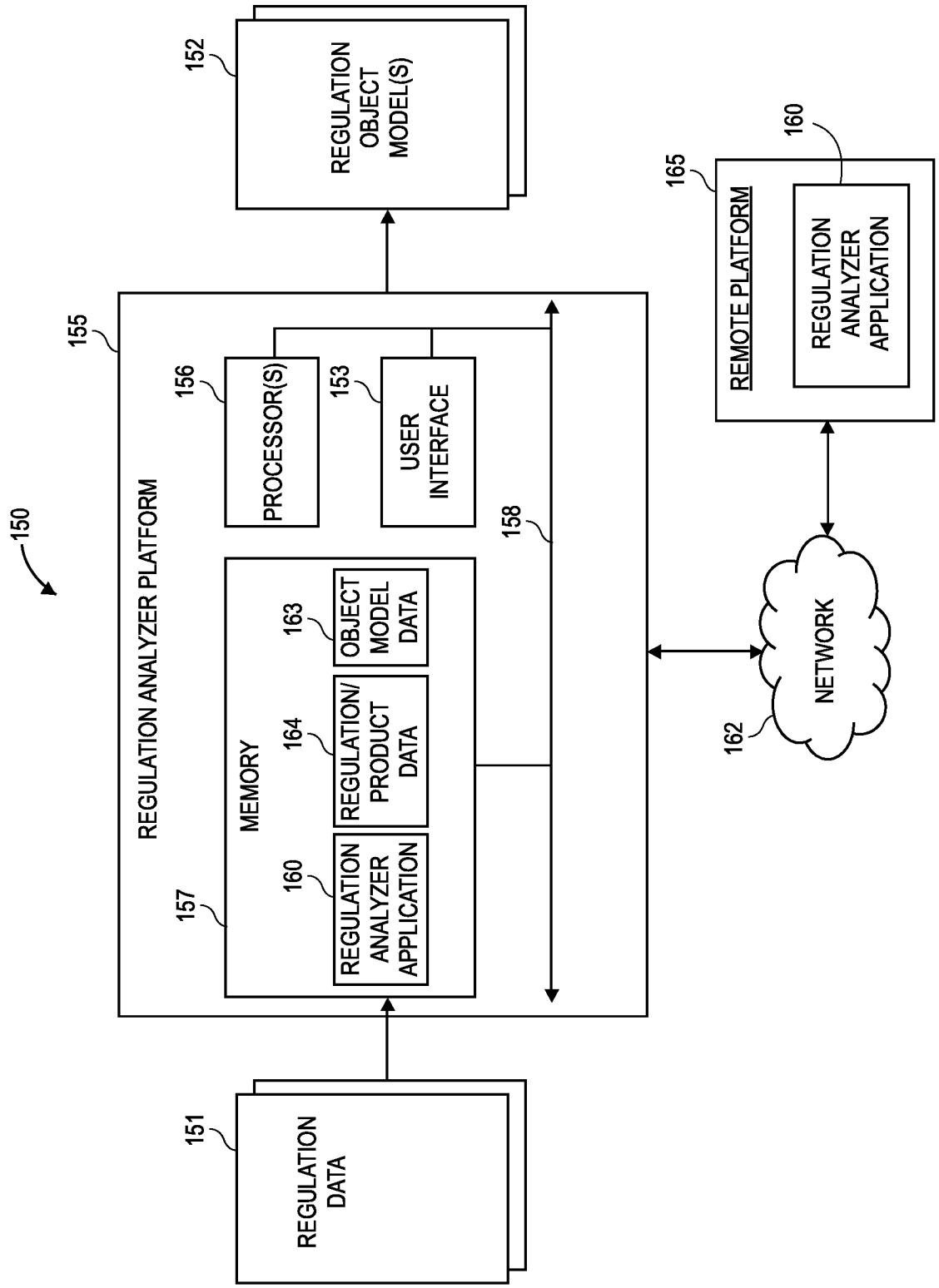
150
REGULATION ANALYZER PLATFORM
155
PROCESSOR(S)
156
USER INTERFACE
153
158
MEMORY
157
REGULATION ANALYZER APPLICATION
160
REGULATION/ PRODUCT DATA
164
OBJECT MODEL DATA
163
REGULATION OBJECT MODEL(S)
152
REGULATION DATA
151
NETWORK
162
REMOTE PLATFORM
165
REGULATION ANALYZER APPLICATION
160

FIG. 1B

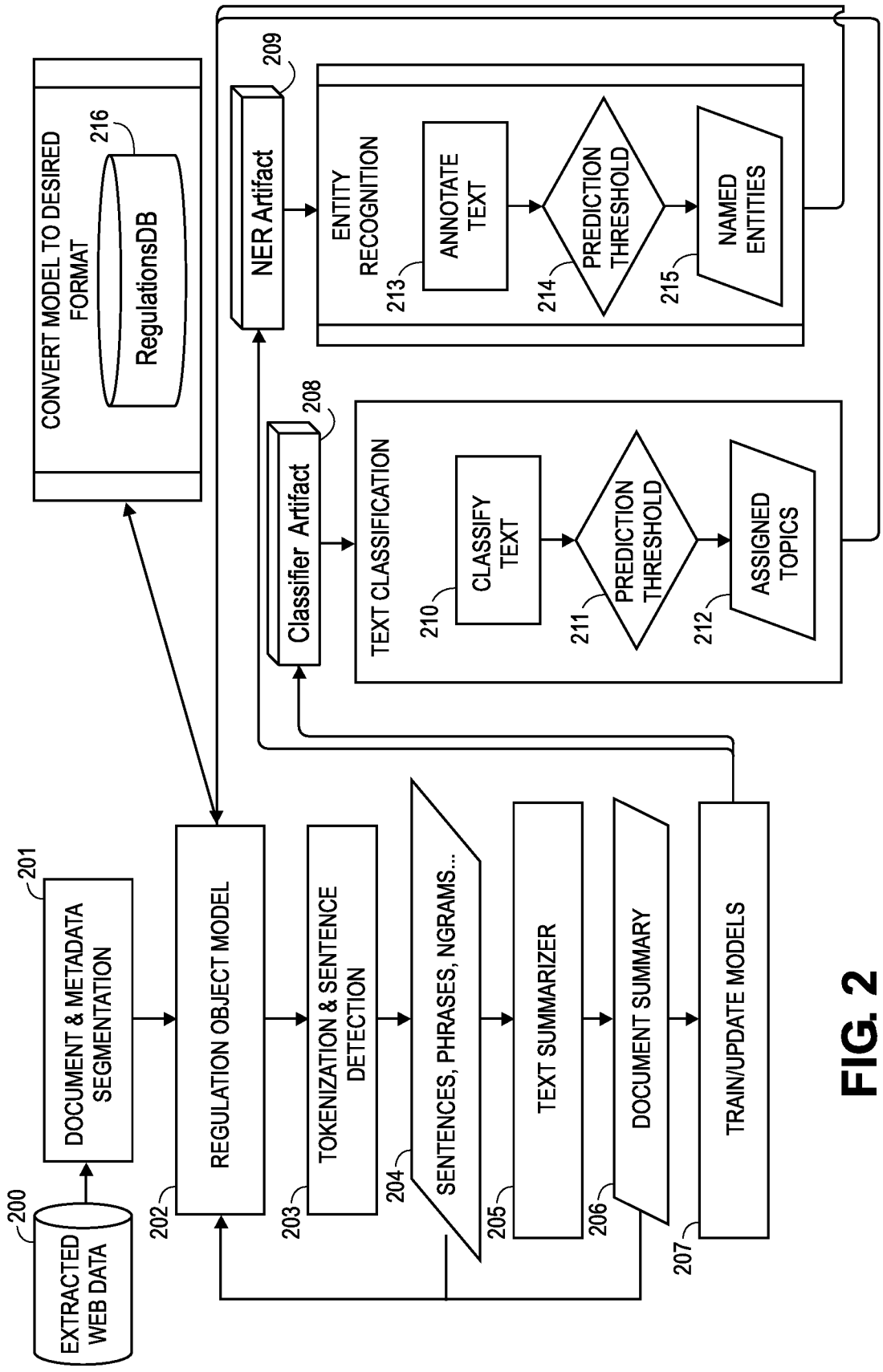
EXTRACTED WEB DATA
200
DOCUMENT & METADATA SEGMENTATION
201
REGULATION OBJECT MODEL
202
TOKENIZATION & SENTENCE DETECTION
203
SENTENCES, PHRASES, NGRAMS...
204
TEXT SUMMARIZER
205
DOCUMENT SUMMARY
206
TRAIN/UPDATE MODELS
207
CONVERT MODEL TO DESIRED FORMAT
RegulationsDB
216
NER Artifact
209
ENTITY RECOGNITION
ANNOTATE TEXT
213
PREDICTION THRESHOLD
214
NAMED ENTITIES
215
Classifier Artifact
208
TEXT CLASSIFICATION
CLASSIFY TEXT
210
PREDICTION THRESHOLD
211
ASSIGNED TOPICS
212

FIG. 2

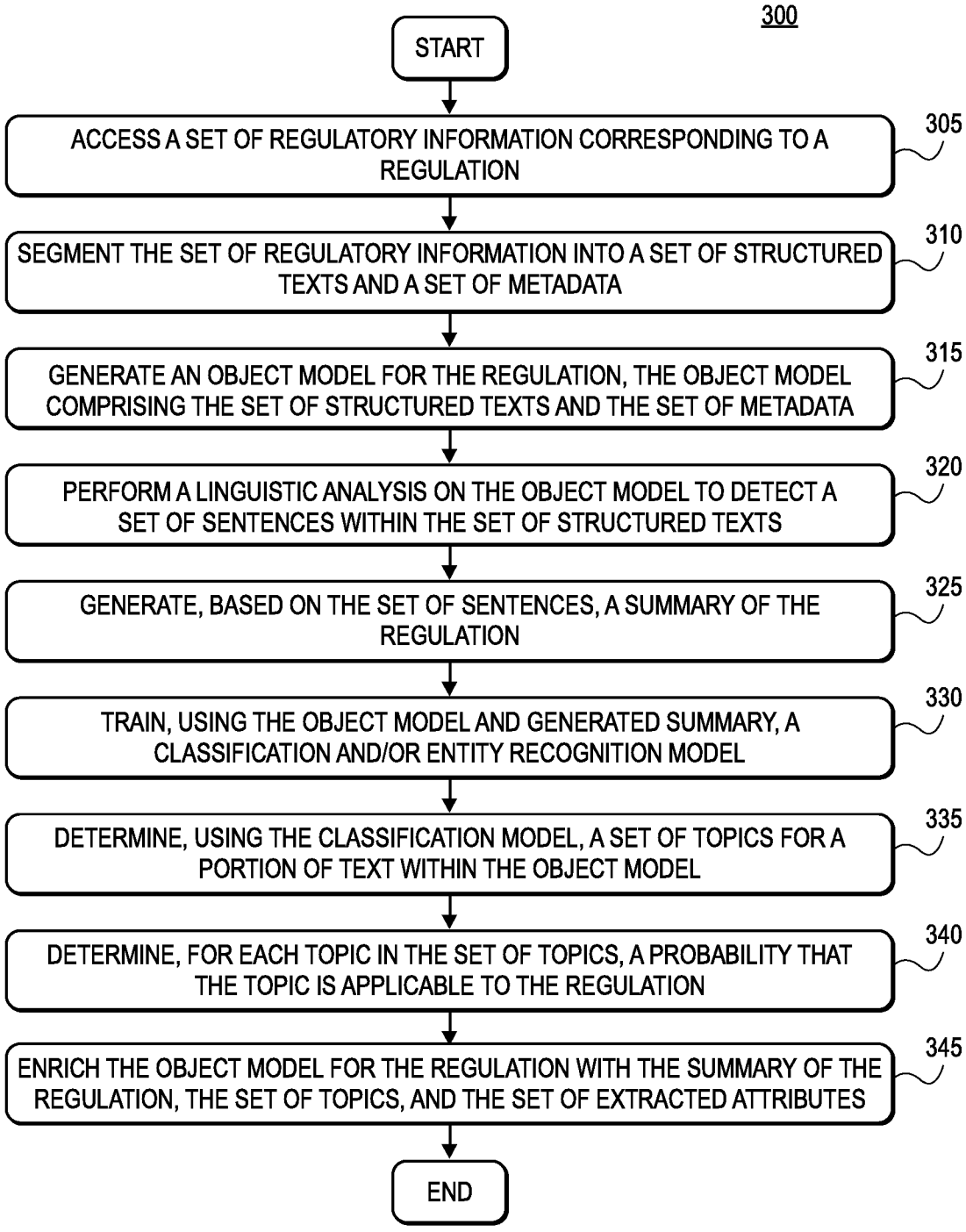
300
START
ACCESS A SET OF REGULATORY INFORMATION CORRESPONDING TO A REGULATION
305
SEGMENT THE SET OF REGULATORY INFORMATION INTO A SET OF STRUCTURED TEXTS AND A SET OF METADATA
310
GENERATE AN OBJECT MODEL FOR THE REGULATION, THE OBJECT MODEL COMPRISING THE SET OF STRUCTURED TEXTS AND THE SET OF METADATA
315
PERFORM A LINGUISTIC ANALYSIS ON THE OBJECT MODEL TO DETECT A SET OF SENTENCES WITHIN THE SET OF STRUCTURED TEXTS
320
GENERATE, BASED ON THE SET OF SENTENCES, A SUMMARY OF THE REGULATION
325
TRAIN, USING THE OBJECT MODEL AND GENERATED SUMMARY, A CLASSIFICATION AND/OR ENTITY RECOGNITION MODEL
330
DETERMINE, USING THE CLASSIFICATION MODEL, A SET OF TOPICS FOR A PORTION OF TEXT WITHIN THE OBJECT MODEL
335
DETERMINE, FOR EACH TOPIC IN THE SET OF TOPICS, A PROBABILITY THAT THE TOPIC IS APPLICABLE TO THE REGULATION
340
ENRICH THE OBJECT MODEL FOR THE REGULATION WITH THE SUMMARY OF THE REGULATION, THE SET OF TOPICS, AND THE SET OF EXTRACTED ATTRIBUTES
345
END

FIG. 3