

***Global multilingual  
semantic  
patent database***

***Objective:***

*automatic preliminary patent application  
examination.*

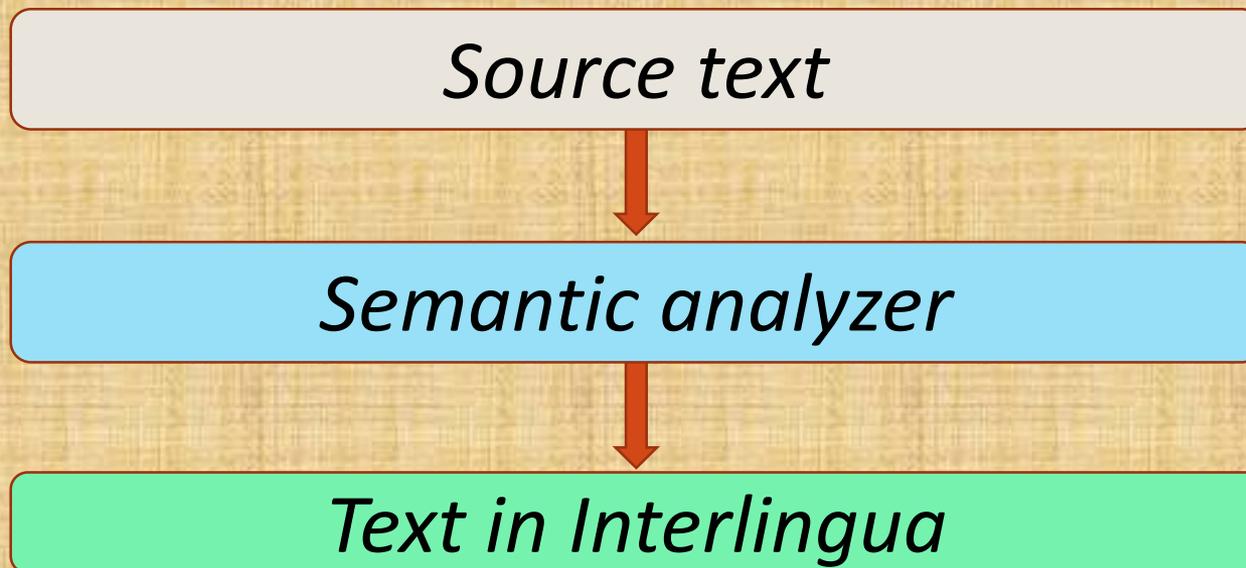
***Means:***

*semantic analysis of unstructured texts.*

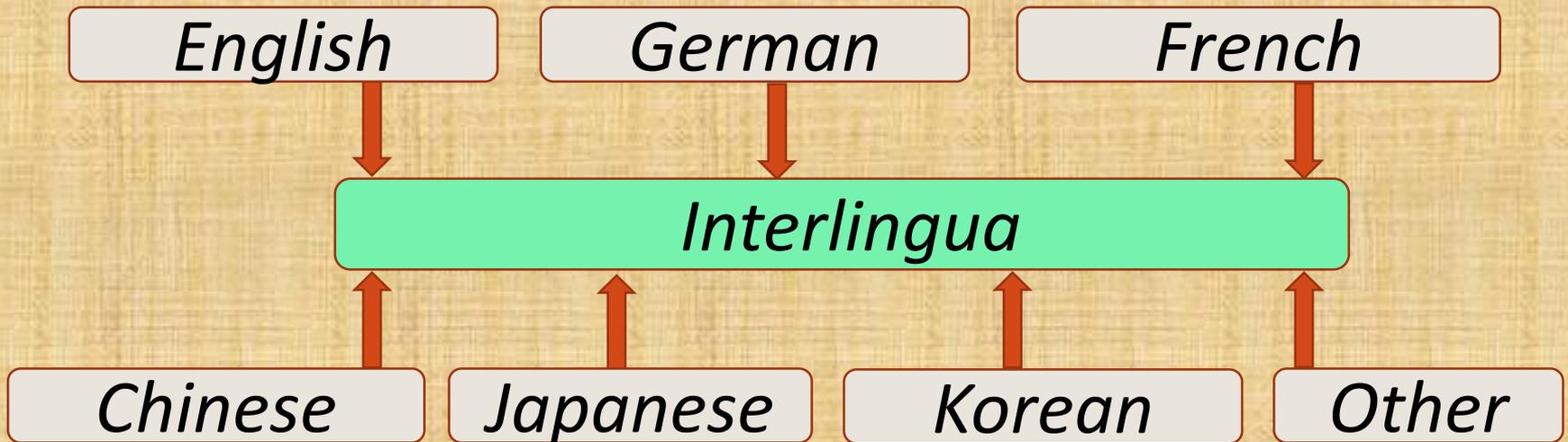
# ***Technology***

- *Creation of semantic version of patent database.*
- *Formation of semantic image of patent application.*
- *Matching of semantics between the application and database of semantic images of patents.*

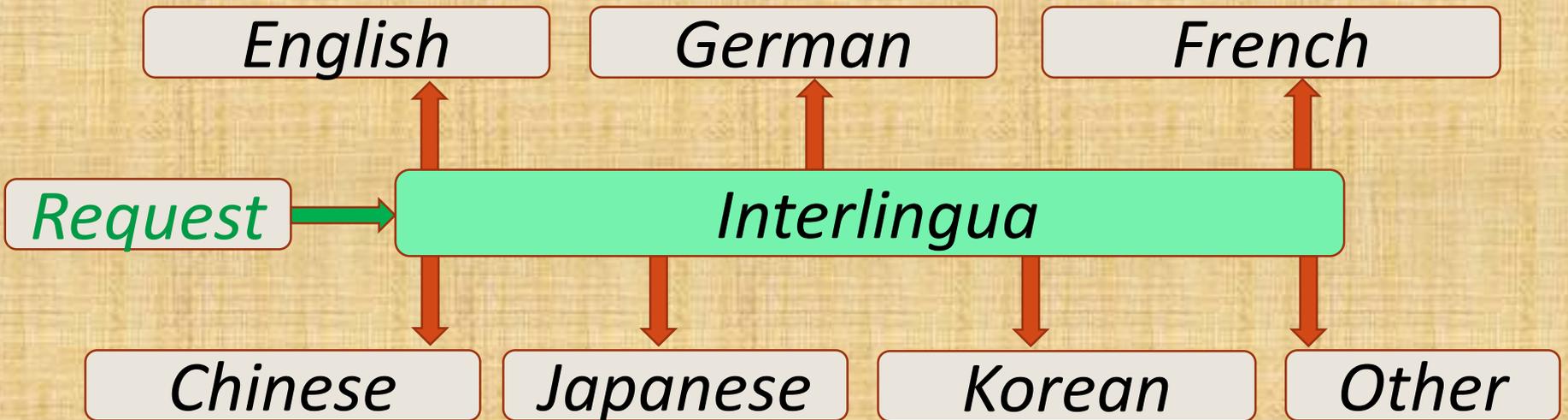
# *Formation of semantic image of the document*



# *Formation of the multilingual patent database*



# *Search in the multilingual patent database*



# *Levels of automatic preliminary examination*

***Good***

surface semantics

***Best***

+ lexical semantics

***Super***

+ pragmatics

# *Advantages of the new technology*

- *High quality preliminary examination.*
- *Objective quantitative assessment of the relevance of search results.*
- *Ability to search for analogues in the multilingual database **without the translation of patents' texts.***
- *High productivity of operation of patent office: **to find analogues only one resort to the database is required; resort is done using semantic image of an application.***
- *Unified technology of maintenance and use of the global patent database.*
- *Automatic search for duplicate patents.*
- *Automatic search for plagiarism.*
- *Simplification of the procedure of application processing: there is no need for classifier.*