The REG117_RELATION Table

Welcome to table **REG117_RELATION** of PATSTAT Register. This table contains information about European divisional or continuation application. In the Data Catalog, the term "continuation" is used referring to applications filed in respect to A.61(1)(b) EPC, and not according to U.S. patent law.

This table contains applications and their child applications. Child applications which are (deemed to be) withdrawn or which have been refused are consequently not published and therefore they are not part of the EP register. For the sake of database consistency they are not included in this table.

```
In [1]:  from epo.tipdata.patstat import PatstatClient
         from epo.tipdata.patstat.database.models import REG117_RELATION
         from sqlalchemy import func
         import pandas as pd

         # Initialise the PATSTAT client
         patstat = PatstatClient(env='PROD')

         # Access ORM
         db = patstat.orm()
```

ID (Primary Key)

Technical identifier for an application, without business meaning. Its values will not change from one PATSTAT edition to the next.

In [2]:
```
i = db.query(
    REG117_RELATION.id
).limit(1000)

df = patstat.df(i)
df
```

Out[2]:

	id
0	4801190
1	14772247
2	98305987
3	4250302
4	5719250
...	...
995	98958839
996	5762865
997	2079311
998	1963803
999	8168373

1000 rows × 1 columns

RELATION_TYPE

Type of relation between applications: continuation or division.

In [5]:
```python
relation = db.query(
    REG117_RELATION.relation_type,
    func.count(REG117_RELATION.id).label('Number of application
s')
).group_by(
    REG117_RELATION.relation_type
).order_by(
    func.count(REG117_RELATION.id).desc()
)

relation_df = patstat.df(relation)
relation_df
```

Out[5]:

	relation_type	Number of applications
0	division	266801
1	continuation	24

In [6]:
```python
relation = db.query(
    REG117_RELATION.id,
    REG117_RELATION.relation_type
).filter(
    REG117_RELATION.relation_type == 'continuation'
)

relation_df = patstat.df(relation)
relation_df
```

Out[6]:

	id	relation_type
0	7847617	continuation
1	98908220	continuation
2	91920961	continuation
3	14189805	continuation
4	11150100	continuation
5	981200	continuation
6	7716314	continuation
7	11824324	continuation
8	10170452	continuation
9	110194	continuation
10	1104719	continuation
11	5711960	continuation
12	95919355	continuation
13	10002469	continuation
14	95420146	continuation
15	13729363	continuation
16	85400859	continuation
17	6728254	continuation
18	1978516	continuation
19	92113200	continuation
20	5797481	continuation
21	99304791	continuation
22	7716314	continuation
23	10170452	continuation

In [ ]: