

The REG301_EVENT_DATA Table

Welcome to an in-depth exploration of the REG301_EVENT_DATA table. This table captures important legally relevant actions that take place throughout the lifecycle of a patent application, primarily up to the end of the opposition period. It serves as a logbook, tracking various legal events and providing valuable insights into the procedural history of patent applications.

The REG301_EVENT_DATA table includes data such as event dates, event codes, and bulletin references, offering a comprehensive record of the significant steps in the patent granting process. Notably, the table also covers annual payments during the European Patent Office (EPO) patent grant procedure, including the opposition period. For a more extensive overview of legal events beyond this period, additional data from EPO member states can be found in the INPADOC legal events table (TLS231_INPADOC_LEGAL_EVENT).

```
In [1]: from epo.tipdata.patstat import PatstatClient
        from epo.tipdata.patstat.database.models import REG301_EVENT_DATA, REG101_APPLN
        from sqlalchemy import select, func, case, select, and_

        patstat = PatstatClient(env='TEST')

        db = patstat.orm()
```

```
In [3]: q = db.query(
    REG301_EVENT_DATA.id,
    REG301_EVENT_DATA.event_date,
    REG301_EVENT_DATA.event_code,
    REG301_EVENT_DATA.bulletin_year,
    REG301_EVENT_DATA.bulletin_nr,
    REG301_EVENT_DATA.bulletin_date
)

res = patstat.df(q)
res
```

Out[3]:

	id	event_date	event_code	bulletin_year	bulletin_nr	bulletin_date
0	105615	2002-10-25	0009182	2002	50	2002-12-11
1	105463	2004-03-19	0009013	2004	19	2004-05-06
2	6255440	2007-10-05	0009199INVT	2007	45	2007-11-07
3	99941416	2007-10-05	0009299OPPO	2007	45	2007-11-07
4	7021392	2012-08-31	0009260	2012	40	2012-10-03
...
309541	16179719	2018-08-25	EPIDOSNPFE2RFEE	0	0	9999-12-31
309542	16179747	2018-09-05	EPIDOSNPFE2RFEE	0	0	9999-12-31
309543	16180553	2018-09-05	EPIDOSNPFE2RFEE	0	0	9999-12-31
309544	16180556	2018-08-25	EPIDOSNPFE2RFEE	0	0	9999-12-31
309545	16181247	2018-09-05	EPIDOSNPFE2RFEE	0	0	9999-12-31

309546 rows × 6 columns

Key Fields in the REG301_EVENT_DATA Table

ID (Primary Key)

The ID field serves as a technical identifier that uniquely connects patent applications across various tables.

EVENT_DATE (Primary Key)

The `EVENT_DATE` attribute in the `REG301_EVENT_DATA` and `REG731_EVENT_DATA` tables refers to the date when the event was recorded in the file. This date may differ from the effective legal or filing date of the event itself, as it marks when the action was officially entered into the system. The

`EVENT_DATE` helps track the timing of the event within the EPO's records, providing an important reference point for understanding the sequence of events in the patent application process.

The EVENT_CODE (Primary Key)

This attribute in the `REG301_EVENT_DATA` table represents the internal code used by the EPO to identify the type of legal action or event related to a patent application. This code is essential for classifying and tracking the various actions, such as publications, changes, or deletions, that occur throughout the patent process. The code is up to 30 characters long and may include descriptive elements, such as "9199" for actions before B1 publication or "9299" for actions after B1 publication. It helps ensure consistent identification and understanding of each specific event.

```
In [4]: q = db.query(
        REG301_EVENT_DATA.event_code
        ).distinct()

res = patstat.df(q)
res
```

Out [4]:

	event_code
0	0009182
1	0009013
2	0009199INVT
3	0009299OPPO
4	0009260
...	...
319	EPIDOSNIGR7
320	EPIDOSNRFE2
321	EPIDOSNWIAI
322	EPIDOSNEXAM52
323	EPIDOSNPFE2RFEE

324 rows × 1 columns

BULLETIN_YEAR

In the PATSTAT database, the `BULLETIN_YEAR` field captures the year when an action or event related to a patent application was published in the EPO Bulletin. This field plays a critical role in tracking the timeline of patent events, ensuring chronological accuracy in analyses.

The `BULLETIN_YEAR` is a 4-digit numeric field (formatted as YYYY), with a default value of 0 to indicate cases where no bulletin publication is known. For entries where publication in the EPO Bulletin is confirmed, `BULLETIN_YEAR` reflects the corresponding year of publication. It is used in conjunction with `BULLETIN_NR`, which specifies the bulletin issue number.

The attributes `BULLETIN_YEAR` and `BULLETIN_NR` always hold non-default values in tables such as:

- `REG113_TERMS_OF_GRANT`: Documents terms under which patents are granted.
- `REG118_PREV_FILED_APPLN`: Tracks previously filed applications.

BULLETIN_NR

The `BULLETIN_NR` attribute represents the issue number of the EPO Bulletin in which a specific action has been published. This number indicates the calendar week during which the Bulletin was released. It serves as a reference for identifying the exact edition of the EPO Bulletin where actions such as patent grants, publications, or other significant events are announced.

If the action was not published in the Bulletin or if the information is unknown, the default value of 0 is used for the `BULLETIN_NR`, which corresponds to the absence of a known bulletin number. This value is only used when the associated `BULLETIN_YEAR` is also set to 0.

BULLETIN_DATE

This attribute in the `REG301_EVENT_DATA` and `REG731_EVENT_DATA` tables refers to the date when the event was published in the bulletin. For events that are also published in the official gazette or bulletin, this date marks the public disclosure of the event. If the event has not been published in the bulletin, the default value is set to 9999-12-31. This attribute provides a crucial reference for understanding when legal events are communicated publicly, helping to track the dissemination of patent-related information.