<div align="center">**REPLACE SDOC OPERATOR**</div>

A. **SDOC used in text field**

SDOC is used in Fampat to find several terms in the same publication member (but eventually in different fields);

⇨ Use Fullpat and replace "SDOC" by "AND" then GROUP BY PATENT FAMILIES

> You lose the advantage of Fampat if your query contains a search on other fields that could match with another member of the family (classification for example) → potentially less results

⇨ In Fampat,

- o replace SDOC by AND

  - But you will get few more results, depending of the domain, the composition of the patent family. Some may be more or less relevant.

  - The argument that customer use the SDOC to avoid false results because of bad machine translation is no longer relevant .

- o Restrict the search by using S operator or nD operator (99D max).

  - But you will get less results.

B. **SDOC used to combine PN field with DATE fields**

(JP SDOC 2013)/PN

Searching patent families with JP patent(s) published in 2013

⇨ Replace by**:** (JP **S** 2013)/PN

⇨ Or Replace by**:** (JP **P** 2013)/PN

- You will have the same results

(US SDOC B?)/PN

Searching patent families with US patent with a kind code B1 or B2

⇨ Replace by : (**USB?)/**PN

- You will have the same results

(CN/PN) SDOC (PDF>=2014 OR PDL>=2014)

Searching patent families with CN patents with a publication date (First publication date PDF or Last publication date PDL) >=2014

- ⇨ In Fampat, replace by: **(CN S 2014/PN).**
    - ▪ You will have more documents; patent families with CN members with intermediate publication in 2014
- ⇨ Use Fullpat and replace "SDOC" by "AND" then GROUP BY PATENT FAMILIES
    - ▪ But you lose the advantage of Fampat if your query contains a search on other fields that could match with another member of the family → potentially less results

US/PN SDOC PDG=YES

Searching patent families with US patents with a grant publication date

- ⇨ In Fampat,

    Replace by all kind codes corresponding to a grant: (USA or USB? Or USS1 OR USP2 OR ...)/PN

- ⇨ Or Use Fullpat and replace SDOC by AND: US/PN AND PDG=YES;

    then GROUP BY PATENT FAMILIES

    - ▪ But you lose the advantage of Fampat if your query contains a search on other fields that could match with another member of the family → potentially less results

(WO)/PN SDOC PRD >= 2012-12-01

Searching patent families with WO with a priority date >=2012-12-01

- ⇨ No solution with Fampat except to replace SDOC by AND.
    - ▪ (WO)/PN AND PRD >= 2012-12-01 will retrieve patent families with a priority date >= 2012-12-01 and with a WO publication as member →noises in the results
- ⇨ Use Fullpat and replace SDOC by AND

    then GROUP BY PATENT FAMILIES

    - ▪ But you lose the advantage of Fampat if your query contains a search on other fields that could match with another member of the family → potentially less results

(EP OR FR OR DE OR GB)/PN SDOC APD >= 2021-01-01

Searching patent families with a member EP or FR or DE or GB which has a application date >=2021-01-01

    ⇨ In Fampat, use the following query:

    APD/ACT>= 2021-01-01 P (PC/ACT=EP OR PC/ACT=FR OR PC/ACT=DE OR PC/ACT=GB)

- Normally, you get the same results. Be careful, for some authorities the content of ACT may be missing (delayed...)

    ⇨ Use Fullpat and replace SDOC by AND

    then GROUP BY PATENT FAMILIES

- But you lose the advantage of Fampat if your query contains a search on other fields that could match with another member of the family → potentially less results

(EP/PN SDOC PD=2011:2013)

Searching patent families with a member EP published between 2011 and 2013

    ⇨ On Fampat, use the following query:

    PC/ACT=EP P PD/ACT=2011:2013

- Normally, you get the same results. Be careful, for some authorities the content of ACT may be missing (delayed...)

    ⇨ Use Fullpat and replace "SDOC" by "AND" then GROUP BY PATENT FAMILIES

- But you lose the advantage of Fampat if your query contains a search on other fields that could match with another member of the family → potentially less results

(US OR EP OR WO OR DE)/PN SDOC PD=2014-02-01:2014-04-30

Searching patent families with a member US or EP or WO or DE published between 2014-02 and 2014-04-30

⇨ In Fampat, use the following query:
((PC/ACT=US OR PC/ACT=EP OR PC/ACT=WO OR PC/ACT=DE) P PD/ACT=2014-02-01:2014-04-30)

- Normally, you get the same results. Be careful, for some authorities the content of ACT may be missing (delayed...)

⇨ Use Fullpat and replace "SDOC" by "AND" then GROUP BY PATENT FAMILIES

- But you lose the advantage of Fampat if your query contains a search on other fields that could match with another member of the family → potentially less results

C. SDOC used to combine PAAD, INAD, RPAD subfields

(45###PAAD) SDOC COUNTRY/PAAD=FR

Searching patent families with a country code associated to a postcode

⇨ Replace SDOC by AND : **(45###PAAD) AND COUNTRY/PAAD=FR**

- There may be some irrelevant documents
- No other alternative

D. SDOC used to combine Classification codes

(C11D-003/386 OR C11D-003/38627)/CPC SDOC (C12N-009/16 OR C12N-009/18 OR C12N-009/20)/CPC)

⇨ In Fampat, replace SDOC by AND

- There will be a few additional documents or not, depending of the domain, the composition of the patent family, others steps of the query...

⇨ Use Fullpat and replace "SDOC" by "AND" then GROUP BY PATENT FAMILIES

E. SDOC used to combine NUM subfield and PN

NCTG/NUM>=50 SDOC US /PN
Searching patent families with member US whith Count of citing patent >=50

⇨ Replace SDOC by AND in Fampat.

- There will be a few no relevant documents

⇨ Use Fullpat and replace "SDOC" by "AND" then GROUP BY PATENT FAMILIES