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EVALUATION REPORT ON THE COLLABORATIVE SEARCH AND EXAMINATION (CS&E) SECOND PILOT PROJECT

Document submitted by the European Patent Office and the Republic of Korea

REVISIONS RELATING TO DOCUMENT PCT/WG/6/22
This document contains revisions to paragraphs 32 and 33 of document PCT/WG/6/22 reflecting the feedback from the Korean Intellectual Property Office on the results of the second Collaborative Search and Examination (CS&E) Pilot Project. Paragraph 34 of document PCT/WG/6/22 has been deleted, with consequential renumbering of all subsequent paragraphs.

INTRODUCTION
1. At its third session in June 2010, the PCT Working Group endorsed a series of recommendations to improve the functioning of the PCT as listed in document PCT/WG/4/3. The recommendation under paragraph 165(b) mentions trials of arrangements whereby examiners in Offices with complementary skills work together to establish a report. In that respect, the Korean Intellectual Property Office (KIPO), the United States Patent and Trademark Office (USPTO) and the European Patent Office (EPO) launched a first pilot project on collaborative search and examination under the PCT (CS&E) in May 2010. The objective of the project was to allow examiners from different Authorities in different regions and with different language specialties to work together on one PCT application with the aim of establishing a high quality international search report and written opinion.
2. The first pilot project had a small scale as its main objective was to test basic assumptions related to the feasibility of a collaborative approach between examiners and a general assessment of the benefits / disadvantages form a qualitative point of view. The second pilot project of a larger scale was designed based on the lessons learnt during the first pilot project in order to allow a more quantitative assessment of the approach and a fine-tuning of and operational working model.

3. This document is an evaluation report of the second pilot and including the views of the EPO participants as well as evaluation of the whole project by the EPO.

4. The second pilot project was concluded in October 2012 with a very encouraging result. This document provides an evaluation of the second pilot by the EPO.

BUILDING ON THE FIRST PILOT PROJECT

5. The main conclusions for the first pilot project were:

- CS&E is a realistic concept;
- the collaboration between examiners brings a clear added-value regarding the quality of the ISR and WO-ISA; as a consequence, legal certainly increases;
- no major additional time investment would be required in regional/national phase as a result of the collaboration in the international phase.

6. Based on these main conclusions from the limited scale first pilot, the Offices KIPO, USPTO and EPO decided to launch the second pilot with duration of one year and involving more examiners and more PCT applications. The size of this second pilot was as follows:

- eight examiners per participating Office, with a total of 24 examiners involved in the pilot;
- each examiner treating a total of eight PCT applications as first examiner (responsible for the applications; see Annex I) and collaborating in other 16 PCT applications of the two counterparts;
- the targeted total number of PCT applications treated in the pilot was 192 (each Office treating 64 PCT applications as ISA and collaborating in another 128).

7. The second pilot was split in two parts: A first part was conducted from October 2011 to March 2012 with four PCT applications per examiner acting as first examiner. The second part was conducted from April to September 2012 with four additional PCT applications per examiner acting as first examiner.

OBJECTIVES FOR THE SECOND PILOT PROJECT

8. The objectives of the CS&E pilot were:

(a) To define the conditions under which examiners of different ISAs in different regions can co-produce the ISR and the WO-ISA for PCT applications. This includes testing the fined-tuned methodology to identify how collaboration could be implemented in an operational environment in a wider deployment within the Offices.

(b) To evaluate from a qualitative and quantitative point of view the benefits and disadvantages of the collaborative approach in terms of quality and efficiency. The approach towards measuring the quality and efficiency effects of collaborating in the production of the ISR and WO-ISA is explained in Annex II.
PILOT DESIGN
9. The pilot was designed for testing the concept of collaborative search and examination according to the objectives set forth in paragraph 8 above. Arrangements for testing other objectives, such as improvement of the ISA timeliness or mastering PCT workloads should be kept outside of the scope of the CS&E pilot.

10. A balance has been found between leaving some discretion to the examiners involved in the pilot for finding the most efficient modus operandi and the need for guidance in order to ensure that the pilot operates in a harmonized way among the different Offices and examiners in different technical fields.

11. The legal framework is the PCT and all its related provisions. Namely, all participating Offices will continue to act as ISA under the relevant PCT provisions and to endorse the responsibility for the ISR and WO-ISA produced under the pilot for their own PCT applications treated in the pilot.

12. The methodology agreed by the participating Offices is depicted in the Annex I.

EVALUATION OF THE SECOND PILOT IN THE EPO
13. Out of the expected 192 PCT applications, 137 were actually completed. The general perception is that the pilot is teaching very relevant aspects about the collaboration between examiners in remote locations, with different cultures, operational constrains, etc. This collaborative approach being a new way of treating applications and never tested before the launch of the CS&E pilots, the learning phase is very important and will certainly still last after the second pilot closure.

14. Some of the main general lessons learnt to date are summarized in the points below:

- Operational constrains within each Office have an important impact in the collaboration. Examples of these constrains are the workload of an examiner, the incentives to dedicate time to this pilot, different priorities defined by the Offices for the treatment of applications.

- The success in the collaboration varies from group to group, each group being composed of one examiner per participating Office. The lack of progress by one member in a group, for whatever reason this is, has a big impact on the progress of the group, as this, according to the current methodology, blocks the whole group. Progress is determined by the less respondent / less active participant in the group.

- Differences in practice in the PCT procedure for aspects such as claims directed to medical use or method of treatment are an issue which needs to be tackled. Thus, where a convergent approach is not possible for examiners from the different Offices, the solution is to specify the different opinions in the WO-ISA with a standard explanation as provided for in the pilot methodology.

- Email is the main communication mean for the collaboration. It seems that the examiners' pace for handling applications as well as the time difference between the Offices makes email the preferred option. Video-conference, chat and telephone have been tested, however are not often used.

- Collaboration highly improves once the participants in a specific group have worked together for a certain period of time and know what to expect from the counterparts.
• Different classification schemes make it difficult to trust the searches performed by other Offices. It is anticipated that this problem will largely be solved with Cooperative Patent Classification (CPC).

• Separate presentation of the different Offices’ opinions in the ISR/WO-ISA would be very interesting for applicants as it would give them a complete overview of what might happen when entering regional/national phases and thus enable them to adapt their strategy to regional market constraints.

• Collaboration needs to be supported by a collaboration tool that automatically keeps the "state" of the often multiple threads and, even, multiple applications treated by a group at the same time. Functionalities such as generation of reminders to provide feedback, making visible that one participant is not available for a period of time.

• A secure and efficient means for exchanging information relating to a PCT application handled under CS&E scheme should be provided.

15. The evaluation of the pilot project has four different components: (i) views of the participants; (ii) views of the applicants; (iii) feedback from other participating Offices; and (iv) EPO's conclusion. The following sections explain how these different evaluations have been planned and the results.

EVALUATION BY THE EPO PARTICIPATING EXAMINERS

16. The participants within an Office have been be asked to provide feedback on a regular basis and to fill in a questionnaire after they complete an application, either as first examiner or as peer examiner (see Annex I for clarification about the roles). The objective of this pilot is to gather quantitative results, and the questions to the participants focus, therefore, on the qualitative aspects of the quality and efficiency when treating an application according to the CS&E approach.

Quality

17. The quality of the consolidate ISR and WO-ISA is compared to the quality of the provisional ISR and WO-ISA (the results of the first examiner as sent to the peers).

18. The views of the EPO participants for their work as first examiner, e.g. receiving feedback, on the work done until now and making abstraction of the operational issues associated to a pilot:

• In more than 60 per cent of the applications the feedback received included comments to the search strategy, interpretation of the claims and prior art or patentability. In 30 per cent of the applications the feedback received included additional search hints, e.g. classes, keywords, databases.

• In 87 per cent of applications, the feedback resulted in citations added by the first examiner to the final search report. In 27 per cent of applications, the feedback resulted in amendments to the WO-ISA.

• Similar to the 2011 pilot results, in almost all of the cases handled (92 per cent), first examiners perceived the final product (final ISR and final WO-ISA) improved as a result of collaboration with peer examiners, while in more than a third of cases, a significant improvement was noted.
Efficiency

19. The views of the EPO participants based on the work done and making abstraction of the operational issues associated to a pilot:

- When acting as first examiner and comparing the CS&E collaboration with a normal search of a PCT application, for most of the cases around 15-25 per cent additional time was needed.

- When acting as peer examiner, and by comparison with a normal search, the time overhead was found to be negligible (less then 10 per cent) in 50 per cent of cases.

20. It is interesting to note that in 70 per cent of cases, EPO examiners acting as peer examiners would trust both search and examination results produced collaboratively. These results could be used directly in the regional/national phase. EPO examiners noted that in these cases additional administrative time would likely be needed (for example to replace PCT legal references need to perform additional with corresponding European Patent Convention (EPC) references). In only 2 per cent of cases would EPO examiners searches in the regional/national phase. EPO examiners considered that both search and examination was trustworthy for EPC examination in 70 per cent of cases and that for the remaining 30 per cent of cases, EPO examiners would require a complementary examination due to the differences in patent law.

21. It is interesting to see that the feedback received is consistent and in line with the assumptions and outcome of the first CS&E pilot.

EVALUATION BY APPLICANTS

22. The origin of the CS&E concept is a proposal made by the industry that expressed an interest for a single search report and written opinion presenting the views of the examiners of the major patent Offices. According to the views expressed by industry associations, such a report and written opinion would provide applicants with a new product which would assist them in defining the appropriate strategy for extending their IP rights worldwide for specific inventions which are key for their business development.

23. IP Federation representing the views of UK industry in both IPR policy and practice matters within the EU, the UK and internationally. Its membership comprises innovative and influential companies. The IP Federation believes that "CS&E under the PCT will be the biggest single improvement in the PCT since it came into force in 1978".

24. The Federation draws the following conclusions:

- A collaborative search between IPO's delivers a substantial improvement in quality (offering improved filing and prosecution effectiveness and efficiency to applicants).

- The cost to applicants of an all-IP5 PCT CSE, minus any rebates that might be given in the national / regional phases, promises to be a small multiple of search and examination by a single ISA.

25. Furthermore, the participating Offices organized different surveys on CS&E including online consultations. Particularly, the EPO has submitted a consultation on Collaborative Search and Examination which was closed on November 23, 2012.
26. The overall feedback was very positive. When discussing the CS&E with users, examiners' expertise and support was praised. The concept was overall appreciated and welcomed with high interest. Some users expressed concerns regarding the quality, timeliness and level of fees for this product. Based on received feedback some of the users would be ready to pay a fee for CS&E product, while others not.

27. This confirms also the assumption that CS&E concept would be of interest for only a part of PCT applicants.

28. It is worth noting that, for the users who provided feedback, the cost is the main factor influencing the choice for this product; the quality of search generally comes second. Feedback also provided reasons as to why CS&E product would not be interesting. For some users too much information makes the process more complex and/or is not needed for their patenting strategy.

**KIPO FEEDBACK**

29. KIPO also provided feedback to the EPO on the results of the second CS&E pilots. Similar as in the EPO by the time of pilot closure and report preparation, not all CS&E applications were completed.

30. Due to the organization of the pilot, it was not practicable for the KIPO to provide feedback on additional time needed for treating a CS&E application.

31. KIPO examiners acting as first examiners evaluated that in 77 per cent of the applications, the feedback received included additional citations found by the peer examiners. The feedback received by the first examiner was rated as relevant in 75 per cent of the applications treated. In only 2 per cent of the applications, the feedback was found to be not relevant at all. In 71 per cent of the applications, the feedback resulted in citations added by the first examiner to the final search report (ISR). In 46 per cent of the applications, the feedback resulted in amendments to the WO-ISA. In 92 per cent of the cases, first examiners perceived the final product (final ISR and WO-ISA) improved as a result of collaboration with peer examiners. KIPO examiners acting as peer examiners essentially confirmed the findings of the EPO examiners acting as peer examiners. The quality of the final product was increased by the collaboration in nearly all cases. For approximately half of the pilot application KIPO examiners performed an additional search or citations were added to the search report.

32. KIPO examiners also share the EPO's view on the trust in the final product obtained in collaborative manner. In the KIPO in 84 per cent of cases KIPO examiners would trust the collaborative results in the national phase. KIPO examiners would only need additional time for administrative matters in 29 per cent of cases, while in 55 per cent of cases KIPO examiners would need a little more time for a complementary search.

33. Therefore, it can be concluded that KIPO and EPO results of the CS&E second pilot are convergent. KIPO and EPO is of the opinion that CS&E is a positive development.

**USPTO FEEDBACK**

34. USPTO feedback is still in evaluation phase. USPTO contribution is essential before being able to draw final conclusions on the pilot.
CONCLUSION
35. The perception of the EPO examiners was that all PCT Chapter I final products prepared in the collaborative manner were directly usable in the regional/national phase with some additional administrative work (adapting legal reference or re-formulating reasoning). Collaboration between examiners for obtaining a collaborative search report and opinion in the way proposed by CS&E is a very promising initiative widely supported by industry and patent institutions.

36. Based on the signals and reports received from other IP5 Offices and the need to carefully analyze the political implications, it seems to be still too early to propose at this stage a permanent CS&E scheme. Discussions are ongoing to further explore this concept by initiating a third pilot. However, replicating pilots 1 and 2 into a third pilot is not really meaningful. It is therefore proposed to launch a third pilot which would be the time applicant driven.

37. It is important to underline that the objective of the Collaborative Search & Examination project is to obtain a product, which could be directly usable in the participating Offices when entering the regional phase. It is clear that applicants opting for a Collaborative Search & Examination would do this with mind of entering into regional phase in the participating Offices. Therefore the concept of CS&E is an implementation of the work sharing policies of the IP5 (e.g. as discussed in IP5 and consistent and fully aligned with WIPO PCT-RO).

38. Taking into the overall process (international and regional phases) substantial savings can be expected based on the assumption that applicants opting for CS&E seriously consider entering into regional phase of the participating Office.

39. In this respect information from KIPO and USPTO is required as to whether this would also be the case in the respective Offices as primary feedback received from these two Offices is somehow contradictory.

40. Concerning the voiced timeliness issue, indeed it has been an issue in the two pilots mainly because it has been opted on published PCT applications, for obvious legal reasons and the data workflow between Offices was purely manual as well as intensive feedback and monitoring procedure was applied.

41. Should there be a third pilot as proposed then the applicants would indicate which PCT applications should be treated in a collaborative manner. Therefore, waiting for publication would not be necessary. Also, IT tools supporting data exchange would need to be established. Concerning the cost, primary indication on time required for processing a CS&E International Search Report seems to be approximately 150 per cent of the time required for Chapter I EPO alone.

42. EPO evaluation of the second pilot tend to show that CS&E could be an efficient work scheme leading to time saving solution rather than cause for additional workload. This is based not only on the fact that added value is expected, but mainly on EPO's perception on reusability and efficiency increase as to avoid work duplication.

43. The Working Group is invited to note the contents of this document.

[Annexes follow]
PILOT METHODOLOGY

Examiners participating in this pilot used the following methodology:

1. The examiner of the Office acting as ISA for a given PCT application (called first examiner) analyzes the application in order to understand it. The first examiner will work on this application as for any other PCT application by preparing a search strategy (what to search, where to search and how to search) and conducting the search and examination accordingly. As a result, the first examiner will establish a provisional ISR and WO-ISA. This provisional work should then be transmitted to the peer examiners in the other participating Offices (called peers). In addition to the provisional ISR and WO-ISA, the first examiner should make available to the peers his/her provisional RoSS. The first examiner will use the standard template for the RoSS (Record of Search Strategy) adapted to the needs of the corresponding technical field.

2. The delivery of the provisional ISR and WO-ISA triggers a time limit for the peer examiners of one week to provide feedback. The peers are expected to comment on or complement as appropriate the provisional work of the first examiner within one week. The comments by the peers could be related to the citations, the WO-ISA or the search strategy and will be sent using the standard template for the feedback form. Complementing the search would mean providing additional search results or examination findings to the first examiner. If a peer examiner decides to complement the search the information about the RoSS for the additional search will be included in the feedback from.

3. The time needed for the peers' contribution will be assessed by each Office under the assumption that the contribution should provide added value to the work of the first examiner. It is therefore expected that the feedback will be in general more substantial than a simple statement indicating that there are no comments.

4. There could be more than one exchange of information between the first examiner and any of the peer examiners. For any exchange a time limit of one week also applies to the reception of feedback, either from the peer examiner of the first examiner.

5. After reception of the feedback from the peer examiners the first examiner will proceed with the establishment of a final ISR and WO-ISA. This should be done not later than one week after reception of the last feedback. The final ISR and WO-ISA will be transmitted to the applicant on behalf of the ISA accompanied by a standard letter that informs that the application has being treated under the CS&E pilot.

6. The final ISR and WO-ISA (consolidated ISR and WO-ISA) will be the result of complementing the provisional ISR WO-ISA (the one drafted by the first examiner before having any feedback) with the comments received from the peers. A consolidated RoSS (provisional search strategy drafted by the first examiner + feedback from the peers) will be drafted by the first examiner and kept in the file.

7. The first examiner will make available to the peers a copy of the final ISR and WO-ISA as well as the consolidated search strategy when these are sent to the applicant.

8. The final ISR will be as complete as possible by including all citations, i.e. those found by the first examiner and those provided by the peer examiners. The WO-ISA will also be as complete as possible by including the argumentations provided by the peer examiners whenever these are complementary and not contradictory. In the case of the WO-ISA, the argumentations are to be preceded by a standard sentence to help applicants understand these additional argumentations where appropriate.

[Annex II follows]
PILOT EVALUATION

This pilot allowed the participating Offices to evaluate the following aspects listed below.

EXAMINERS

1. The examiners were asked to fill in a form for each completed application, either as first examiner or as peer examiner. This input from the examiners allowed the Offices to assess the following aspects:

   (a) **Quality**: The quality of the consolidated ISR and WO-ISA could be compared to the quality of the provisional ISR and WO-ISA (the results of the first examiner as sent to the peers). This was assessed by the examiners.

   (b) **Efficiency**: The assumption on which the pilot is based is that, when examiners work together for producing the consolidated ISR and WO-ISA, they would naturally reuse this international work to a larger extent when treating the corresponding applications after entry into the national/regional phase than it is the case today.

   (c) To measure the efficiency, the first examiners and peers indicated the time invested in each application. The times were estimated as "additional time" to the standard time invested in a standard search for the first and peer examiners.

   (d) Ideally, when the application enters the national/regional phase, the time investment by the peers for this phase will be measured. However, as this will only be possible after the pilot has been completed a provisional assessment will be made on the potential savings that the examiners can expect for the entry in the national/regional phase. The final objective is to compare the total time invested by the first examiner and the peers using a CS&E model (time in international phase and time in the national/regional phase) and compare it to the time under the normal PCT path (by a first examiner) including the national/regional phases (by the peers).

   (e) Two aspects were assessed: Firstly that the results of this pilot confirm the conclusions from the first pilot project, particularly that no major investment would be needed by the examiners in national / regional phase. And secondly, a measurement of the overall additional time required when a file is treated under CS&E including the time investments in PCT and national / regional phases.

APPLICANTS

2. The quality will be assessed by means of an applicant survey to be sent together with the letter that informs applicants that a specific file is treated in the framework of the CS&E.