

From the INTERNATIONAL BUREAU

PCTNOTIFICATION OF DEFECTS IN
THE INTERNATIONAL APPLICATION

(PCT Articles 3(4)(i) and 14(1) and Rule 28.1)

To:

UNITED STATES PATENT AND TRADEMARK
OFFICE
PCT International Branch
Mail Stop PCT, Commissioner for Patents,
P.O. Box 1450,
Alexandria, VA 22313-1450
ÉTATS-UNIS D'AMÉRIQUE

in its capacity as receiving Office

Date of mailing (<i>day/month/year</i>) 13 September 2017 (13.09.2017)	International filing date (<i>day/month/year</i>) 01 September 2017 (01.09.2017)
International application No. PCT/US2017/049796	
Applicant SCHLUMBERGER TECHNOLOGY CORPORATION et al	

1. The International Bureau hereby calls the attention of the receiving Office to the defects **in the international application as filed**, which are specified on the attached:
- Annex A
 - Annex B1 (*text matter of the international application as filed*)
 - Annex C1 (*drawings of the international application as filed*)
2. The International Bureau hereby calls the attention of the receiving Office to the defects **in the translation of the international application** furnished under Rule 12.3 or 12.4, which are specified on the attached:
- Annex A
 - Annex B2 (*text matter of the translation of the international application*)
 - Annex C2 (*drawings of the translation of the international application*)

Additional observations (*if necessary*):

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Warsi Naim e-mail pct.team1@wipo.int Telephone No. +41 22 338 74 01
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The International Bureau has found that, with regard to the presentation of the **drawings of the international application as filed**, the physical requirements are not complied with to the extent that compliance therewith is necessary for:

1. reasonably uniform international publication (Rules 11 and 26.3(a)(i)) (*defects to be specified*):

Sheets containing drawings:

- a. the sheets do not admit of direct reproduction
- b. the sheets are not free from creases, cracks, folds
- c. one side of the sheets is not left unused
- d. the paper of the sheets is not flexible/strong/white/smooth/non-shiny/durable
- e. the drawings do not commence on a new sheet
- f. the sheets are not connected as prescribed (Rule 11.4(b))
- g. the sheets are not A4 size (29.7cm x 21cm)
- h. the minimum margins on the sheets are not as prescribed (top: 2.5cm; left side: 2.5cm; right side: 1.5cm; bottom: 1cm)
- i. the file reference number indicated on the sheets does not appear in the left-hand corner of the sheets, within 1.5 cm of the top of the sheets
- j. the file reference number exceeds the maximum of 12 characters
- k. the sheets are not free from frames around usable or used surfaces
- l. the sheets are not numbered in consecutive Arabic numerals (e.g. 1/3, 2/3, 3/3)
- m. the sheet numbers are not centered at the top or bottom of the sheets
- n. the sheet numbers are in the margin (see h. above for the size of the margins)
- o. the sheets contain alterations/overwritings/interlineations/toomany erasures
- p. the sheets contain photocopy marks

Drawings (Rule 11.13):

- a. do not admit of direct reproduction
- b. contain unnecessary text matter
- c. contain words so placed as to prevent translation without interference with lines thereof
- d. are not executed in durable black color; the lines are not uniformly thick and well-defined
- e. contain cross-sections not properly hatched
- f. would not be properly distinguishable in reduced reproduction
- g. contain scales not represented graphically
- h. contain numbers, letters and reference lines lacking simplicity and clarity
- i. contain lines drafted without the aid of drafting instruments
- j. contain disproportionate elements of a figure not necessary for clarity
- k. contain numbers and letters of height less than 0.32 cm
- l. contain letters not conforming to the Latin, and where customary, Greek alphabets
- m. contain figures on two or more sheets which form a single complete figure but which are not able to be assembled without concealing parts thereof
- n. contain figures which are not properly arranged and clearly separated
- o. contain different figures not numbered in consecutive Arabic numerals
- p. contain different figures not numbered independently of the numbering of the sheets
- q. are not restricted to reference signs mentioned in the description
- r. do not contain reference signs that are mentioned in the description
- s. contain the same feature denoted by different reference signs
- t. are not arranged in an upright position, clearly separated from one another
- u. are not presented sideways with the top of the figures at the left side of the sheets

2. satisfactory reproduction (Rules 11 and 26.3(b)(i))

Further observations (*if necessary*):

Please specify which figure of the drawings to be accompany with Abstract.

1A, 1B, or 1C.