

# PATENT COOPERATION TREATY

From the RECEIVING OFFICE

To:  
**OREN RAPHAEL**  
**4355 SEPULVEDA BLVD**  
**APT 105**  
**SHERMAN OAKS, CALIFORNIA 91403**  
**UNITED STATES OF AMERICA**

CONFIRMATION NO. 5286

## PCT

### INVITATION TO CORRECT DEFECTS IN THE INTERNATIONAL APPLICATION

(PCT Articles 3(4)(i) and 14(1) and Rule 26)

	Date of mailing (day/month/year) <b>26 November 2025 (26.11.2025)</b>
Applicant's or agent's file reference <b>AIENHANCEDSPECTROSCOPYRO</b>	<b>REPLY DUE</b> within <b>TWO MONTHS</b> from the above date of mailing
International application No. <b>PCT/US2025/052948</b>	International filing date (day/month/year)
Applicant <b>RAPHAEL, OREN</b>	

1.  The applicant is hereby **invited**, within the time limit indicated above, to correct, **in the international application as filed**, the defects 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 applicant is hereby **invited**, within the time limit indicated above, to correct, **in the translation of the international application** furnished under Rule 12.3 or 12.4, the defects 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):**

**HOW TO CORRECT THE DEFECTS?**

Except where the defect is in the request, any correction must be submitted by filing a replacement sheet embodying the correction and a letter accompanying the replacement sheet, which shall draw attention to the difference between the replaced sheet and the replacement sheet. For a defect in the request, a correction may simply be stated in a letter if it is of such a nature that the correction can be transferred clearly onto the request record copy (Rule 26.4).

**ATTENTION**

Failure to correct the defects will result in the international application being considered withdrawn by this receiving Office (see Rule 26.5 for further details).

A copy of this Invitation and any attachments has been sent to the International Bureau

and the International Searching Authority.

Name and mailing address of the receiving Office <b>COMMISSIONER FOR PATENTS</b> <b>MAIL STOP PCT</b> <b>P.O. Box 1450</b> <b>Alexandria, VA 22313-1450</b> <b>UNITED STATES OF AMERICA</b>	Authorized officer          <b>LYDELL MEADOWS</b>
Facsimile No. <b>571-273-8300</b>	Telephone No. <b>(703)756-1707</b>

This receiving Office has found that, with regard to the presentation of **the text matter 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*):

	Request	Description	Claims	Abstract
a. <input type="checkbox"/> the sheets do not admit of direct reproduction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. <input type="checkbox"/> the element does not commence on a new sheet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. <input type="checkbox"/> sheets are not free from creases, cracks, folds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. <input type="checkbox"/> sheets are not used in the upright position	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. <input type="checkbox"/> one side of the sheets is not left unused	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f. <input type="checkbox"/> the paper of the sheets is not flexible/strong/white/smooth/non-shiny/durable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g. <input type="checkbox"/> the sheets are not connected as prescribed (Rule 11.4(b))	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h. <input type="checkbox"/> sheets are not A4 size (29.7cm x 21cm)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i. <input type="checkbox"/> the minimum margins on the sheets are not as prescribed (top: 2cm; left side: 2.5cm; right side: 2cm; bottom: 2cm)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
j. <input type="checkbox"/> 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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
k. <input type="checkbox"/> the file reference number exceeds the maximum of 25 characters	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
l. <input checked="" type="checkbox"/> the sheets of the description, claims and abstract are not numbered in consecutive Arabic numerals	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
m. <input checked="" type="checkbox"/> the sheet numbers are not centered at the top or bottom of the sheets	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
n. <input type="checkbox"/> the sheet numbers are in the margin (see i. above for the size of the margins)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
o. <input type="checkbox"/> the text matter is not typed or printed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
p. <input checked="" type="checkbox"/> the typing on the sheets is not 1½-spaced	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
q. <input type="checkbox"/> the characters in the text matter on the sheets are less than 0.28 cm high in capital letters	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
r. <input type="checkbox"/> the text matter on the sheets is not in dark, indelible color	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
s. <input type="checkbox"/> the element contains drawings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
t. <input type="checkbox"/> the sheets contain alterations/overwritings/interlineations/too many erasures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
u. <input type="checkbox"/> the sheets contain photocopy marks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

Further observations (*if necessary*):

This receiving Office 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.  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 25 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/too many 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*):