

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**Application Number:** PCT/US2018/038956  
**International Filing Date:** 22 June 2018  
**Applicant:** ABLER, JEFFREY A.  
**Title:** LARGE SCALE HIGH SPEED PRECISION  
POWDER BED FUSION ADDITIVE  
MANUFACTURING  
**Attorney Docket No.:** 1304-0002

**RESPONSE TO INVITATION TO CORRECT DEFECTS IN  
THE INTERNATIONAL APPLICATION (FORM PCT/RO/106)**

To the Director of the U.S. Patent and Trademark Office regarding the above-referenced application:

In response to Form PCT/RO/106, mailed on 6 July 2018, inviting the Applicant to correct the drawings of the international application as filed (*see* attached Exhibit A), Applicant hereby encloses a full set of replacement drawings.

The replacement drawings are believed to sufficiently address the defects identified on the PCT/RO/106 form and are being submitted to facilitate processing of the above identified International Application.

Respectfully submitted,

Dated: August 6, 2018

/Gary Serbin/  
Gary Serbin  
Registration No. 43,912  
KOFFSKY SCHWALB LLC  
349 Fifth Avenue  
New York, New York 10016  
(646) 553-1590  
[patent@koffskyschwalb.com](mailto:patent@koffskyschwalb.com)

# EXHIBIT A

## PATENT COOPERATION TREATY

From the RECEIVING OFFICE

To:  
**GARY SERBIN**  
**KOFFSKY SCHWALB LLC**  
**349 FIFTH AVENUE, SUITE 733**  
**NEW YORK, NEW YORK 10016**

**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)	06 Jul 2018
Applicant's or agent's file reference 1304-0002		<b>REPLY DUE</b>	within <b>TWO MONTHS</b> from the above date of mailing
International application No. PCT/US2018/038956		International filing date (day/month/year)	22 Jun 2018
Applicant ABLER, JEFFREY A			

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 Mail Stop PCT, Commissioner for Patents P.O. Box 1450, Alexandria, VA 22313-1450 Facsimile No. 571-273-8300	Authorized officer <b>LaShonnah Tyson</b> Telephone No. 571-272-6628
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## ANNEX C1 TO FORM PCT/RO/106

International application No.

PCT/US2018/038956

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.  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 1.5m 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/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*):