

# PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

## PCT

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

To: MATHEW Wilson 3390 E Harmony Road Fort Collins, Colorado 80528 United States of America
---

Date of mailing ( <i>day/month/year</i> ) 14 June 2018 (14.06.2018)		
Applicant's or agent's file reference 84678605		<b>FOR FURTHER ACTION</b> See paragraph 2 below
International application No. PCT/US 2017/053641	International filing date ( <i>day/month/year</i> ) 27 September 2017 (27.09.2017)	Priority date ( <i>day/month/year</i> )
International Patent Classification (IPC) or both national classification and IPC <b>G06F 1/16 (2006.01)</b>		
Applicant HEWLETT-PACKARD DEVELOPMENT COMPANY, L. P.		

<p>1. This opinion contains indications relating to the following items:</p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Box No. I Basis of the opinion</li> <li><input type="checkbox"/> Box No. II Priority</li> <li><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</li> <li><input type="checkbox"/> Box No. IV Lack of unity of invention</li> <li><input checked="" type="checkbox"/> Box No. V Reasoned statement under Rule 43<i>bis</i>.1(a)(i) with regard to novelty, inventive step and industrial applicability; citations and explanations supporting such statement</li> <li><input type="checkbox"/> Box No. VI Certain documents cited</li> <li><input type="checkbox"/> Box No. VII Certain defects in the international application</li> <li><input type="checkbox"/> Box No. VIII Certain observations on the international application</li> </ul> <p>2. <b>FURTHER ACTION</b></p> <p>If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1<i>bis</i>(b) that written opinions of this International Searching Authority will not be so considered.</p> <p>If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.</p> <p>For further options, see Form PCT/ISA/220.</p>
--

Name and mailing address of the ISA/RU: Federal Institute of Industrial Property, Berezhkovskaya nab., 30-1, Moscow, G-59, GSP-3, Russia, 125993 Facsimile No: (8-495) 531-63-18, (8-499) 243-33-37	Date of completion of this opinion  13 June 2018 (13.06.2018)	Authorized officer  A. Tokarev  Telephone No. (495)531-64-81
---	---	--

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US 2017/053641

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:
  - the international application in the language in which it was filed.
  - a translation of the international application into \_\_\_\_\_ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2.  This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))
3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:
  - a.  forming part of the international application as filed:
    - in the form of an Annex C/ST.25 text file.
    - on paper or in the form of an image file.
  - b.  furnished together with the international application under PCT Rule 13*ter*.1(a) for the purposes of international search only in the form of an Annex C/ST.25 text file.
  - c.  furnished subsequent to the international filing date for the purposes of international search only:
    - in the form of an Annex C/ST.25 text file (Rule 13*ter*.1(a)).
    - on paper or in the form of an image file (Rule 13*ter*.1(b) and Administrative Instructions, Section 713).
4.  In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5. Additional comments:

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/US 2017/053641

**Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step and industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	5, 6, 9, 10, 13, 15	YES
	Claims	1-4, 7, 8, 11, 12, 14	NO
Inventive step (IS)	Claims		YES
	Claims	5, 6, 9, 10, 13, 15	NO
Industrial applicability (IA)	Claims	1-15	YES
	Claims		NO

2. Citations and explanations:

D1: US 2015/0062793 A1 05.03.2015

D2: US 5594220 A 14.01.1997

D3: US 6053589 A 25.04.2000

D1 discloses a computing device (abstract, [0016]) comprising: a display member comprising a display surface and a back surface opposite the display surface ([0016]-[0019]); and a base member rotatably connected to the display member via a hinge ([0016]-[0019]), wherein the base member comprises: a top surface ([0016]-[0019]); a bottom surface opposite the top surface ([0016]-[0019]); a retractable foot to extend from the bottom surface of the base member when the display member is to be rotated open from a closed position to a first operating position ([0018]-[0025]); a cam sharing an axis with the hinge, wherein when the display member is to be rotated, a corresponding rotation of the cam is to control extension and retraction of the retractable foot ([0018]-[0025]); and a mechanism for the retractable foot to maintain contact with the cam (D1, [0018]-[0025]).

Therefore, the inventions of independent claims 1, 8, 12 do not meet the criterion of novelty.

Dependent claims 2-7, 9-11, 13-15 do not appear to contain any additional features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step, the reasons being as follows.

Features of claim 2, characterizing that the retractable foot is to retract back into the bottom surface of the base member when the display member is to be rotated further open from the first operating position to a second operating position, are known from D1 ([0018]-[0025]).

Features of claim 3, characterizing that the second operating position comprises the back surface of the display member making contact with the bottom surface of the base member, are known from D1 ([0021]).

Features of claim 4, characterizing a cam sharing an axis with the hinge, wherein when the computing device is to transition between the closed position and the second operating position, rotation of the cam is to control extension and retraction of the retractable foot, are known from D1 ([0018]-[0025]).

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.  
Continuation of V:

Features of claims 5, 9, 15, characterizing that the retractable foot is a flexible metal that maintains contact with the cam and extends from or retracts into the bottom surface of the base member, based on the rotation of the cam when the display member is to be rotated with respect to the base member, are known from D2 (col. 1, line 40 – col. 2, line 19).

Features of claims 6, 10, 13, characterizing a mechanism for the retractable foot to maintain contact with the cam, wherein examples of the mechanism comprise a spring, are known from D3 (col. 2, line 50 – col. 3, line 21).

Features of claims 7, 11, 14, characterizing that the retractable foot pivots in and out from the bottom surface of the base member from an end of the retractable foot, are known from D1 ([0018]-[0025]).

Therefore, the inventions of dependent claims 2-4, 7, 11, 14 do not meet the criterion of novelty, and the inventions of dependent claims 5, 6, 9, 10, 13, 15 do not meet the criterion of inventive step.

The inventions of claims 1-15 meet the criterion of industrial applicability.