

(i) Opposing an argument of unpatentability relied on by the Office, or

(ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

(c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:

(1) Each inventor named in the application;

(2) Each attorney or agent who prepares or prosecutes the application; and

(3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.

(d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.

(e) In any continuation-in-part application, the duty under this section includes the duty to disclose to the Office all information known to the person to be material to patentability, as defined in paragraph (b) of this section, which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

[57 FR 2034, Jan. 17, 1992, as amended at 65 FR 54666, Sept. 8, 2000]

§ 1.57 [Reserved]

§ 1.58 Chemical and mathematical formulae and tables.

(a) The specification, including the claims, may contain chemical and mathematical formulas, but shall not

contain drawings or flow diagrams. The description portion of the specification may contain tables; claims may contain tables either if necessary to conform to 35 U.S.C. 112 or if otherwise found to be desirable.

(b) Tables that are submitted in electronic form (§§ 1.96(c) and 1.821(c)) must maintain the spatial relationships (*e.g.*, columns and rows) of the table elements and preserve the information they convey. Chemical and mathematical formulae must be encoded to maintain the proper positioning of their characters when displayed in order to preserve their intended meaning.

(c) Chemical and mathematical formulae and tables must be presented in compliance with § 1.52 (a) and (b), except that chemical and mathematical formulae or tables may be placed in a landscape orientation if they cannot be presented satisfactorily in a portrait orientation. Typewritten characters used in such formulae and tables must be chosen from a block (nonscript) type font or lettering style having capital letters which are at least 0.21 cm. (0.08 inch) high (*e.g.*, elite type). A space at least 0.64 cm. (1/4 inch) high should be provided between complex formulae and tables and the text. Tables should have the lines and columns of data closely spaced to conserve space, consistent with a high degree of legibility.

(Pub. L. 94-131, 89 Stat. 685)

[43 FR 20463, May 11, 1978, as amended at 61 FR 42803, Aug. 19, 1996; 65 FR 54667, Sept. 8, 2000]

§ 1.59 Expungement of information or copy of papers in application file.

(a)(1) Information in an application will not be expunged and returned, except as provided in paragraph (b) of this section. See § 1.618 for return of unauthorized and improper papers in interferences.

(2) Information forming part of the original disclosure (*i.e.*, written specification including the claims, drawings, and any preliminary amendment specifically incorporated into an executed oath or declaration under §§ 1.63 and 1.175) will not be expunged from the application file.

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(b) An applicant may request that the Office expunge and return information, other than what is excluded by paragraph (a)(2) of this section, by filing a petition under this paragraph. Any petition to expunge and return information from an application must include the fee set forth in §1.17(h) and establish to the satisfaction of the Director that the return of the information is appropriate.

(c) Upon request by an applicant and payment of the fee specified in §1.19(b), the Office will furnish copies of an application, unless the application has been disposed of (see §1.53 (e), (f) and (g)). The Office cannot provide or certify copies of an application that has been disposed of.

[62 FR 53188, Oct. 10, 1997, as amended at 65 FR 54667, Sept. 8, 2000]

EFFECTIVE DATE NOTE: At 68 FR 38628, June 30, 2003, §1.59 was revised, effective July 30, 2003. For the convenience of the user, the revised text is set forth as follows:

§ 1.59 Expungement of information or copy of papers in application file.

(a)(1) Information in an application will not be expunged, except as provided in paragraph (b) of this section.

(2) Information forming part of the original disclosure (*i.e.*, written specification including the claims, drawings, and any preliminary amendment specifically incorporated into an executed oath or declaration under §§1.63 and 1.175) will not be expunged from the application file.

(b) An applicant may request that the Office expunge information, other than what is excluded by paragraph (a)(2) of this section, by filing a petition under this paragraph. Any petition to expunge information from an application must include the fee set forth in §1.17(h) and establish to the satisfaction of the Director that the expungement of the information is appropriate in which case a notice granting the petition for expungement will be provided.

(c) Upon request by an applicant and payment of the fee specified in §1.19(b), the Office will furnish copies of an application, unless the application has been disposed of (see §§1.53(e), (f) and (g)). The Office cannot provide or certify copies of an application that has been disposed of.

§§ 1.60–1.62 [Reserved]

OATH OR DECLARATION

§ 1.63 Oath or declaration.

(a) An oath or declaration filed under §1.51(b)(2) as a part of a nonprovisional application must:

(1) Be executed, *i.e.*, signed, in accordance with either §1.66 or §1.68. There is no minimum age for a person to be qualified to sign, but the person must be competent to sign, *i.e.*, understand the document that the person is signing;

(2) Identify each inventor by full name, including the family name, and at least one given name without abbreviation together with any other given name or initial;

(3) Identify the country of citizenship of each inventor; and

(4) State that the person making the oath or declaration believes the named inventor or inventors to be the original and first inventor or inventors of the subject matter which is claimed and for which a patent is sought.

(b) In addition to meeting the requirements of paragraph (a) of this section, the oath or declaration must also:

(1) Identify the application to which it is directed;

(2) State that the person making the oath or declaration has reviewed and understands the contents of the application, including the claims, as amended by any amendment specifically referred to in the oath or declaration; and

(3) State that the person making the oath or declaration acknowledges the duty to disclose to the Office all information known to the person to be material to patentability as defined in §1.56.

(c) Unless such information is supplied on an application data sheet in accordance with §1.76, the oath or declaration must also identify:

(1) The mailing address, and the residence if an inventor lives at a location which is different from where the inventor customarily receives mail, of each inventor; and