

Notice of References Cited

Application/Control No.
17/192,005

Applicant(s)/Patent Under
Reexamination
McLeod, Kristin Sarah

Examiner
James F McDonald III

Art Unit
3793

Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20190125298-A1	05-2019	ABOLMAESUMI; Purang	G06N3/08	1/1
*	B	US-20190388060-A1	12-2019	Aase; Svein Arne	A61B8/543	1/1
*	C	US-20210035286-A1	02-2021	YOO; Jae Chern	G06V10/20	1/1
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					


FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

<i>Search Notes</i> 	Application/Control No. 17/192,005	Applicant(s)/Patent Under Reexamination McLeod, Kristin Sarah
	Examiner James F McDonald III	Art Unit 3793


CPC - Searched*		
Symbol	Date	Examiner
(A61B8/08 OR A61B8/461 OR A61B8/5207).cpc.	03/21/2022	JFM III
A61B8\$.cpc.	03/21/2022	JFM III

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

/JAMES F MCDONALD/ Examiner, Art Unit 3793	
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Search Notes 	Application/Control No. 17/192,005	Applicant(s)/Patent Under Reexamination McLeod, Kristin Sarah
	Examiner James F McDonald III	Art Unit 3793

Search Notes		
Search Notes	Date	Examiner
Text Search: (neural ADJ network) OR (neural\$network) OR ((artificial ADJ intelligence) OR (machine\$learning))	03/21/2022	JFM III
Text Search: (measurement OR measur\$4 OR grad\$4) AND (image WITH analysis)	03/21/2022	JFM III
Text Search: convolutional; (image ADJ analysis) WITH measur\$6	03/21/2022	JFM III
((("MCLEOD") near3 ("Kristin"))).INV.; (((("GE") near3 ("PRECISION") near3 ("HEALTHCARE") near3 ("LLC"))).AS,AANM.	03/21/2022	JFM III
Variations of the text searches above; Searches for specific prior art via Primary Examiner (Serkan Akar) suggestion	03/21/2022	JFM III
Searched for similar prior art under inventor and applicant; used references disclosed in the application; performed search on references and prior art	03/21/2022	JFM III
Searched Google and Google patents for references (and NPL)	03/21/2022	JFM III
Searched variations of CPC listed above using "OR" operator; searched CPC limited by text searches	03/21/2022	JFM III

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

/JAMES F MCDONALD/ Examiner, Art Unit 3793	
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Bibliographic Data

Application No: 17/192,005

Foreign Priority claimed: Yes No

35 USC 119 (a-d) conditions met: Yes No Met After Allowance

Verified and Acknowledged:

Examiner's Signature

Initials

Title:

METHOD AND SYSTEM FOR AUTOMATICALLY DETECTING AN ULTRASOUND IMAGE VIEW AND FOCUS TO PROVIDE MEASUREMENT SUITABILITY FEEDBACK

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
03/04/2021	600	3793	65476US01 (602398-US-1)
RULE			

APPLICANTS

GE Precision Healthcare LLC, Wauwatosa, WI,

INVENTORS

Kristin Sarah McLeod, Oslo, NORWAY

CONTINUING DATA

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

03/15/2021

STATE OR COUNTRY

NORWAY

ADDRESS

MCANDREWS HELD & MALLOY, LTD
500 WEST MADISON STREET
SUITE 3400
CHICAGO, IL 60661
UNITED STATES

FILING FEE RECEIVED

\$1,820

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	5	((("MCLEOD") near3 ("Kristin"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/03/14 10:13 AM
L2	161	((("GE") near3 ("PRECISION") near3 ("HEALTHCARE") near3 ("LLC"))).AS,AANM.	(USPAT)	OR	ON	ON	2022/03/14 10:15 AM
L3	197387658	@pd<"20210304"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO); FPRS; EPO; JPO)	OR	ON	ON	2022/03/14 10:20 AM
L4	39763	(A61B8/08 OR A61B8/461 OR A61B8/5207).cpc.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO); FPRS; EPO; JPO)	OR	ON	ON	2022/03/14 10:20 AM
L5	11	2 AND 4 AND 3	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO); FPRS; EPO; JPO)	OR	ON	ON	2022/03/14 03:44 PM
L6	176063	A61B8\$.cpc.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO); FPRS; EPO; JPO)	OR	ON	ON	2022/03/14 04:51 PM
L7	1308990	(neural ADJ network) OR (neural\$network) OR ((artificial ADJ	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY,	OR	ON	ON	2022/03/14 05:00 PM

L8	1545	intelligence) OR (machine\$learning)) 4 AND 7 AND 3	CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO); FPRS; EPO; JPO) (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO); FPRS; EPO; JPO)	OR	ON	ON	2022/03/14 05:00 PM
L9	1228342	(measurement OR measur\$4 OR grad\$4) AND (image WITH analysis)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO); FPRS; EPO; JPO)	OR	ON	ON	2022/03/14 05:01 PM
L10	645	8 AND 9	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO); FPRS; EPO; JPO)	OR	ON	ON	2022/03/14 05:01 PM
L11	385131	convolutional	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO); FPRS; EPO; JPO)	OR	ON	ON	2022/03/14 05:01 PM
L12	256	10 AND 11	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO); FPRS; EPO; JPO)	OR	ON	ON	2022/03/14 05:01 PM

L13	182945763	@pd<"2020"	FPRS; EPO; JPO) (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO); FPRS; EPO; JPO)	OR	ON	ON	2022/03/14 05:10 PM
L14	86	12 AND 13	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO); FPRS; EPO; JPO)	OR	ON	ON	2022/03/14 05:11 PM
L15	130011	(image ADJ analysis) WITH measur\$6	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO); FPRS; EPO; JPO)	OR	ON	ON	2022/03/17 10:49 AM

PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.

Web Search History

date, time	web site	search string
3/8/2022 11:45:26 AM	Google Images	non-Hermitian complementary metamaterial
3/14/2022 12:02:23 PM	Google	image buffer
3/14/2022 12:04:53 PM	Google Patents	Keyword Group 1 [METHOD AND SYSTEM FOR AUTOMATICALLY DETECTING AN ULTRASOUND IMAGE VIEW AND FOCUS TO PROVIDE MEASUREMENT SUITABILITY FEEDBACK]
3/14/2022 12:05:06 PM	Google Patents	Keyword Group 1 [METHOD AND SYSTEM FOR AUTOMATICALLY DETECTING AN ULTRASOUND IMAGE VIEW AND FOCUS TO PROVIDE MEASUREMENT SUITABILITY FEEDBACK] Before Filing Date: 20210304
3/14/2022 1:44:49 PM	Google	transducer patch array
3/14/2022 1:44:56 PM	Google Images	transducer patch array
3/14/2022 1:45:37 PM	Google	polyimide
3/14/2022 5:09:40 PM	Google Patents	Keyword Group 1 [~patent/CN111493935B]
3/15/2022 10:51:58 AM	Google	an impedance mismatch and an intrinsic loss of the tissue
3/15/2022 4:13:34 PM	Google	hermitian matrix
3/15/2022 4:40:07 PM	Google	lossy anatomy
3/16/2022 11:47:17 AM	Google	semantic segmentation
3/17/2022 11:13:04 AM	Google Patents	Keyword Group 1 [~patent/US20190000424A1]

Doc code: IDS
 Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)
 Approved for use through 11/30/2020. OMB 0651-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		
	Filing Date		2021-03-04
	First Named Inventor	Kristin Sarah McLeod	
	Art Unit		
	Examiner Name		
	Attorney Docket Number		65476US01 (602398-US-1)

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Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	
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	1	20190000424	A1	2019-01-03	Eigil Samset		
	2	20180310920	A1	2018-11-01	Specht et al.		
	3	20180028161	A1	2018-02-01	Guenette et al		

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	1							

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		
	Filing Date		2021-03-04
	First Named Inventor	Kristin Sarah McLeod	
	Art Unit		
	Examiner Name		
	Attorney Docket Number		65476US01 (602398-US-1)

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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
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EXAMINER SIGNATURE

Examiner Signature	/JAMES F MCDONALD/	Date Considered	03/14/2022
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		
	Filing Date		2021-03-04
	First Named Inventor	Kristin Sarah McLeod	
	Art Unit		
	Examiner Name		
	Attorney Docket Number		65476US01 (602398-US-1)

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Philip Henry Sheridan/	Date (YYYY-MM-DD)	2021-03-04
Name/Print	Philip Henry Sheridan	Registration Number	59,918

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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The information provided by you in this form will be subject to the following routine uses:

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2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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Table with 7 columns: APPLICATION NUMBER, FILING or 371(c) DATE, GRP ART UNIT, FIL FEE REC'D, ATTY DOCKET NO, TOT CLAIMS, IND CLAIMS. Row 1: 17/192,005, 03/04/2021, 3793, 1820, 65476US01 (602398-US-1), 20, 3

CONFIRMATION NO. 6029

FILING RECEIPT

23446
MCANDREWS HELD & MALLOY, LTD
500 WEST MADISON STREET
SUITE 3400
CHICAGO, IL 60661



Date Mailed: 03/16/2021

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s) Kristin Sarah McLeod, Oslo, NORWAY;

Applicant(s) GE Precision Healthcare LLC, Wauwatosa, WI;

Power of Attorney: The patent practitioners associated with Customer Number 23446

Domestic Applications for which benefit is claimed - None.

A proper domestic benefit claim must be provided in an Application Data Sheet in order to constitute a claim for domestic benefit. See 37 CFR 1.76 and 1.78.

Foreign Applications for which priority is claimed (You may be eligible to benefit from the Patent Prosecution Highway program at the USPTO. Please see http://www.uspto.gov for more information.) - None.

Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 03/15/2021

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 17/192,005**

Projected Publication Date: 09/08/2022

Non-Publication Request: No

Early Publication Request: No

Title

METHOD AND SYSTEM FOR AUTOMATICALLY DETECTING AN ULTRASOUND IMAGE VIEW AND FOCUS TO PROVIDE MEASUREMENT SUITABILITY FEEDBACK

Preliminary Class

600

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

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For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

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Title 35, United States Code, Section 184
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