

Doc code: IDS

PTO/SB/08a (01-22)

Doc description: Information Disclosure Statement (IDS) Filed

Approved for use through 05/31/2024. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)

Application Number	16574218
Filing Date	2019-09-18
First Named Inventor	Kannappan Karuppan CHETTIAR
Art Unit	2859
Examiner Name	PIGGUSH, AARON C
Attorney Docket Number	12990001US

U.S.PATENTS

Remove

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
/A.P./	1	5734205	A	1998-03-31	Okamura et al.	Cited in NPL Cite No. 1
/A.P./	2	3459957	A	1969-08-05	Kelley	Cited in NPL Cite No. 1

If you wish to add additional U.S. Patent citation information please click the Add button.

Add

U.S.PATENT APPLICATION PUBLICATIONS

Remove

Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/A.P./	1	20160036251	A1	2016-02-04	Giga-Byte Technology Co., Ltd.	Corresponds to Foreign Cite No. 2
/A.P./	2	20200274370	A1	2020-08-27	Robert Bosch GmbH	Corresponds to Foreign Cite No. 3

If you wish to add additional U.S. Published Application citation information please click the Add button.

Add

FOREIGN PATENT DOCUMENTS

Remove

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²ⁱ	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T ⁵
/A.P./	1	B 168 957	EP	A1	2017-05-17	Viessmann Werke GmbH & Co. KG	Cited in NPL Cite No. 1	×

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)

Application Number	16574218
Filing Date	2019-09-18
First Named Inventor	Kannappan Karuppan CHETTIAR
Art Unit	2859
Examiner Name	PIGGUSH, AARON C
Attorney Docket Number	12990001US

/A.P./	2	2 980 953	EP	A2	2016-02-03	Giga-Byte Technology Co., Ltd.	Corresponds to US Publication Cite No. 1; Cited in NPL Cite No. 1	☐
/A.P./	3	2017/102414	WO	A1	2017-06-22	Robert Bosch GmbH	Corresponds to US Publication Cite No. 2; Cited in NPL Cite No. 1	☒

If you wish to add additional Foreign Patent Document citation information please click the Add button

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
/A.P./	1	Search Report issued on March 23, 2022 in corresponding European Application No. 19868765.9; 8 pages.	

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature	/AARON PIGGUSH/	Date Considered	04/18/2022
--------------------	-----------------	-----------------	------------

*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.