

## PCT Recordation of Search History

Case/PCT Application Number: PCT/TH18/00040

CLIN Number/Technical Field of PCT Application: 008 Chemical

Date(s) During Which the Search was Conducted: 5-16 December 2018

Date of Completion of Recordation of Search History Form: 16 December 2018

Research Analyst Initials: MKU

Search Approval Official (SAO) Initials: DGF

### Field of Search/Classification Information:

IPC(8) Classifications: B29C 64/124, 64/135, 35/00; B33Y 30/00 (2018.01)

CPC Classifications: B29C 64/124, 64/135, 35/00; B33Y 30/00; G03F 7/0037, 7/70416; G05B 2219/49013

### Databases Searched (Patent and Non-Patent Literature (NPL), Including Sub-Databases and Files Searched) and Search Terms Used:

PatSeer (US, EP, WO, JP, DE, GB, CN, FR, KR, ES, AU, IN, CA, INPADOC Data);  
Google Scholar; EBSCO; Pubmed

natural rubber, latex, prevulcanization, carbon black, stereolithography, three dimensional, UV radiation, crosslinking

## Database Search String Recordation, Including Dates of Searches:

## Patent Database Search Strategy/Results:

Patseer:

ID	Search String	Records	Date
L20	(L15 or L16) AND L13	22	16-Dec-2018
L19	(L15 or L16) AND L12	57	16-Dec-2018
L18	(L15 or L16) AND L6	196	16-Dec-2018
L17	(L15 or L16) AND L1	4	16-Dec-2018
L16	CPC:"B29C64/124" or "B29C64/135" or "B33Y30/00" or "G03F7/0037" or "G03F7/70416" or "B29C35/00" or "G05B2219/49013"	33953	11-Dec-2018
L15	IC:"B29C64/124" or "B29C64/135" or "B29C35/00" or "B33Y30/00"	47559	11-Dec-2018
L14	TAC:(((natural w2 rubber) or latex) AND ((poly w2 isopropyl w2 acrylamide) or (poly w2 acryloyl w2 glycinamide) or (poly w2 hydroxyethylmethacrylat) or (poly w2 ethylene w2 oxide) or hydroxypropylcellulose or (poly w2 vinylcaprolactam) or (poly w2 vinyl w2 methyl w2 ether) or (acrylonitrile w2 coacrylamide)) AND stereolithograph*)	0	10-Dec-2018
L13	TACD:(((natural w2 rubber) or latex) AND ((poly w2 isopropyl w2 acrylamide) or (poly w2 acryloyl w2 glycinamide) or (poly w2 hydroxyethylmethacrylat) or (poly w2 ethylene w2 oxide) or hydroxypropylcellulose or (poly w2 vinylcaprolactam) or (poly w2 vinyl w2 methyl w2 ether) or (acrylonitrile w2 coacrylamide)) AND stereolithograph*)	129	10-Dec-2018
L12	TACD:(((natural w2 rubber) or latex) AND ((poly w2 isopropyl w2 acrylamide) or (poly w2 acryloyl w2 glycinamide) or (poly w2 hydroxyethylmethacrylat) or (poly w2 ethylene w2 oxide) or hydroxypropylcellulose or (poly w2 vinylcaprolactam) or (poly w2 vinyl w2 methyl w2 ether) or (acrylonitrile w2 coacrylamide)) AND (stereolithography or (optical w2 fabrication) or (photo w2 solid*)))	287	10-Dec-2018
L11	TAC:(((natural w2 rubber) or latex) AND ((poly w2 isopropyl w2 acrylamide) or (poly w2 acryloyl w2 glycinamide) or (poly w2 hydroxyethylmethacrylat) or (poly w2 ethylene w2 oxide) or hydroxypropylcellulose or (poly w2 vinylcaprolactam) or (poly w2 vinyl w2 methyl w2 ether) or (acrylonitrile w2 coacrylamide)) AND (stereolithography or (optical w2 fabrication) or (photo w2 solid*)))	0	10-Dec-2018

L10	TA:(((natural w2 rubber) or latex) AND ((poly w2 isopropyl w2 acrylamide) or (poly w2 acryloyl w2 glycinamide) or (poly w2 hydroxyethylmethacrylat) or (poly w2 ethylene w2 oxide) or hydroxypropylcellulose or (poly w2 vinylcaprolactam) or (poly w2 vinyl w2 methyl w2 ether) or (acrylonitrile w2 coacrylamide)) AND (stereolithography or (optical w2 fabrication) or (photo w2 solid*)))	0	10-Dec-2018
L9	TACD:(((natural w2 rubber) or latex) AND (graphite or graphene or (carbon w2 black) or (carbon w2 nanotube)) AND stereolithography)	466	10-Dec-2018
L8	TAC:(((natural w2 rubber) or latex) AND (graphite or graphene or (carbon w2 black) or (carbon w2 nanotube)) AND stereolithography)	7	10-Dec-2018
L7	TAC:(((natural w2 rubber) or latex) AND (carbon or graphite or graphene or (carbon w2 black) or (carbon w2 nanotube)) AND stereolithography)	14	10-Dec-2018
L6	TACD:(((natural w2 rubber) or latex) AND (carbon or graphite or graphene or (carbon w2 black) or (carbon w2 nanotube)) AND (stereolithography or (optical w2 fabrication) or (photo w2 solid*)))	2341	10-Dec-2018
L5	TAC:(((natural w2 rubber) or latex) AND (carbon or graphite or graphene or (carbon w2 black) or (carbon w2 nanotube)) AND (stereolithography or (optical w2 fabrication) or (photo w2 solid*)))	20	10-Dec-2018
L4	TA:(((natural w2 rubber) or latex) AND (carbon or graphite or graphene or (carbon w2 black) or (carbon w2 nanotube)) AND (stereolithography or (optical w2 fabrication) or (photo w2 solid*)))	0	10-Dec-2018
L3	INV:(wiroonpochit w3 panithi) or (srisawadi w3 sasitorn) or (dokkhan w3 sopita)	0	10-Dec-2018
L2	INV:((wiroonpochit w3 panithi) or (srisawadi w3 sasitorn) or (dokkhan w3 sopita))	0	10-Dec-2018
L1	ASN:NATIONAL SCIENCE AND TECHNOLOGY	210	10-Dec-2018

### Non-Patent Literature (NPL) Search Strategy/Results:

Google Scholar; 15 December 2018

- Prevulcanization of rubber; About 4,440 results (0.08 sec)

- Natural rubber comprising carbon black and sulfur; About 101,000 results (0.09 sec)
- Stereolithography of natural rubber for three dimensional articles; About 6,950 results (0.07 sec)

EBSCO; 15 December 2018

- Prevulcanization of rubber; 462 Results
- Natural rubber comprising carbon black and sulfur; 33,661 Results
- Stereolithography of natural rubber for three dimensional articles; 2,314 Results
- Author: Wiroonpochit Panithi; no results
- Author: Srisawadi Sasitorn; no results
- Author; Dokkan Sopita; no results

Pubmed; 15 December 2018

Search	Query	Items found
#3	Search (latex) AND Stereolithography	1
#2	Search ((Natural rubber) AND carbon black) AND sulfur	11
#1	Search Prevulcanization of rubber	2