

Application No.	
	10201701302Y

Application filing date 17/02/2017	(Earliest) Priority Date	Examiner's Reference Number IPOS/JT
a total of 4 pages.		with effect from 14/02/2014 consists of nt cited in this report, except where
2. Unity of invention is	•	d (or oming gold corrupted listing and
• •	ed out on the basis of the sequenc	d/or amino acid sequence listing and re listing.
	proved as submitted by the applica been established by this Office to re	
5. With regard to the abstract	t,	
	proved as submitted by the applications of the applications of the stablished by this Office as a	
_	to be published with the abstract i	
_	by the applicant.	
_	applicant failed to suggest a figure. figure better characterizes the inve	
because there because the the there because the the there because the there because the there because	e are no drawings in the applicatio	n.
none of the fi	igures.	



Application No.	
10201701302Y	

Box III Text of the abstract

The present invention relates to a polymer compound comprising a portion of polymer compounded with a portion of a cracking catalyst and to a plastic recycling process for recycling of a plastic product produced from the polymer compound according to the present invention wherein lighter hydrocarbon products can be obtained. An example of said polymer compound comprises a high density polyethylene (HDPE) compounded with acidic bentonite.



Application No. 10201701302Y

A. CLASS	IFICATION OF SUBJECT-MATTER						
According to	According to International Patent Classification (IPC)						
	0, C10G11/00, Y02W30/705, Y02W30/625, C0	8K3/00					
	SEARCHED	1 10 11					
	Minimum documentation searched (classification system followed by classification symbols) C08J, C10G, Y02W						
	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
	atabase consulted during the search (name of database ar s: EPODOC, WPI, English Patent Full-text datab						
	s. EPODOC, WP1, English Patent Full-text datas. and synonyms: polymer, plastic, waste, polye		chloride				
	ne, polyethylene terephthalate, poly methyl m						
	, compound, mixture, composite, blend, recov		,				
	MENTS CONSIDERED TO BE RELEVANT						
Category X	Citation of document, with indication, where appropriate US 5079385 A (WU, M. M.) 7 January 1992	te, of the relevant passages	Relevant to claim no. 1-14				
^	see column 3, lines 38-50, column 5, lines 1-	6 column 6 lines 10-31 column	1-14				
	6, lines 56-59, and Examples I and II						
	·						
Х	MAJKA, T. M. ET AL., Recycling of polypropyl		1-14				
	nanocomposites by pyrolysis. <i>Journal of Ana</i> April 2016, Vol. 119, pages 1-7						
	see abstract, page 3, left column, 2 nd paragra	aph and Table 1					
	Citation is not enclosed due to copyright res						
X	NEVES, I. C. ET AL., The effect of acidity behaviour of y zeolites on the catalytic		1-5				
	degradation of polyethylene. <i>European Polyi</i> 42, pages 1541-1547	mer Journal, 15 March 2006, Vol.					
	see abstract						
	Citation is not enclosed due to copyright res	trictions.					
M Eurthon	documents are listed in the continuation of box C.	See supplemental box for details of th	o scape of the search				
	gories of cited documents:	see supplemental box for details of the	e scope or the search.				
A: docume	ent defining the general state of the art which is not	T: later document published after the filir	ng date or priority date				
considered to be of particular relevance		and not in conflict with the application					
	application or patent but published on or after the filing	the principle or theory underlying the i					
date		X: document of particular relevance; the be considered novel or cannot be cons					
	ent which may throw doubts on priority claim(s) or	inventive step when the document is to	aken alone				
	cited to establish the publication date of another or other special reason (as specified)	Y: document of particular relevance; the					
	ent referring to an oral disclosure, use, exhibition or	be considered to involve an inventive s is combined with one or more other su					
other m	•	combination being obvious to a person	-				
	ent published prior to the filing date but later than the	&: document member of the same patent	family				
	date claimed nission of the request to the Intellectual Property	Date of actual completion of the search:					
Office of Sin	gapore:	17/03/2017					
17/02/20		Andhariand Office					
	al Property Office of Singapore	Authorized Officer Joan <u>Toh</u> (Dr)					
51 Bras Basah Road Joan Ioh (Dr) #01-01 Manulife Centre		() () () () () () () () () ()					
Singapore							
	eration@iposinternational.com						



Application No.	
	10201701302Y

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim no.
Х	US 2009/0007484 A1 (SMITH, D. G.) 8 January 2009	1-9
	see paragraphs [0051], [0077], [0141], [0144] and [0148-0149]	
Х	JP H09-268293 A (MITSUI PETROCHEM IND LTD) 14 October 1997 see paragraphs [0020-0021], [0040-0041] and [0050-0055] of the machine translation	1-9
А	US 2551580 A (BOND, JR. G. R. ET AL.) 8 May 1951 see whole document	