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1. Name of conveying party(ies)	2. Name and address of receiving party(ies) Name: ILLINOIS TOOL WORKS INC.				
CHRISTOPHER LUDWIG	Internal Address:				
A. Patent Application No.(s) 15/195,633	Street Address: 155 WEST HARLEM AVENUE City: GLENVIEW State: ILLINOIS Country: US Zip: 60025 Additional name(s) & address(es) attached? Yes No document serves as an Oath/Declaration (37 CFR 1.63). B. Patent No.(s)				
Additional numbers attached? Yes No 5. Name and address to whom correspondence 6. Total number of applications and patents					
concerning document should be mailed: Name: KEVIN D. ERICKSON	involved: ONE (1)				
Internal Address: PAULEY ERICKSON & KOTTIS	7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00				
	Authorized to be charged to deposit account				
Street Address: 2800 WEST HIGGINS ROAD	Enclosed				
SUITE 365	None required (government interest not affecting title)				
City: HOFFMAN ESTATES	8. Payment Information				
State: ILLINOIS Zip: 60169					
Phone Number: (847) 490-1400	Deposit Account Number 19-3550				
Docket Number: ITW-61444-US-1					
Email Address: pto@pauleyip.com	Authorized User Name PAULEY ERICKSON & KOTTIS				
9. Signature:	30 JUNE 2016				
Signature	Date				
Kevin D. Erickson Name of Person Signing	Total number of pages including cover sheet, attachments, and documents:				
Documents to be recorded (including cover shee	handle the second that the sec				

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Docket 61444-US-1

ASSIGNMENT

For valuable and sufficient consideration from Illinois Tool Works Inc. (hereinafter referred to as "Assignce"), a Delaware corporation having its principal place of business at 155 Harlem Avenue, Glenview, Illinois 60025, receipt of such consideration being hereby acknowledged, I/we,

1)	Christopher LUDWIG 636 Hickory Drive Buffalo Grove, Illinois 600	2)		
3)		4)		
nereb	y sell, assign and convey unt	Assignee, its successor	rs and assigns, my/ou	r entire right, title and interest:
Appli	and to an invention entitled 'cation and/or United States Fit of United States Provisiona	atent Application on eve	en date herewith, and	if applicable, which claims the
(2) in Provi	and to an invention entitled sional Application No(s)	filed o	" for which I/we p	previously filed United States ; and
Appli count applic grante	cation(s) and in and to all oth ries foreign to the United Sta cations, and legal equivalents	ner patent applications notes (including divisional thereof) based upon said in including reissues or the contract of the cont	ow or hereafter filed in , continuation, reexart d invention, and in and the like thereof, if any	nination, and reissue
any a		s and/or conventions ba	sed upon said inventi-	ates which may be filed under on(s) shall be filed in the name d upon said invention(s).
furthe succe Assig	nereby further agree that I/we er consideration to me/us, exe ssors or assigns, to be necess inment, it being understood to mee, its successors and assign	ecute any and all papers ary, to be a complete ful nat any expense incident	that may be necessary fillment of the intent	y, or deemed by Assignee, its and purposes of this
all oth		officials for applicable coignee.		marks of the United States and United States to issue any and
1)	me: Christopher LUDWIG		2) Name:	Date
3)			4)	
Na	me:	Date	Name:	Date

PATENT REEL: 039239 FRAME: 0706.002