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A112020103224 - S	ECHIPE VISTRI	FLIGHT		
OMMUNICATION T	HROUGH DRI	-SMART		
EAMFORMING TO F	PROTECT AGA	INST		
AVESDROPPING OF	WIRETAP			
tional Diblic Data Description Object	Drawia and Drawmanta			
ational Biblio. Data Description Claims	Drawings Documents			
			PermaLink Machin	e translation
Office	Title (EN) Secure Visible light co	mmunication through	DRI-Smart Beamforming	to protect against
Australia	eavesdropping of wiretap		bite officier bournorming	
Application Number				
2020103224	Streaming	Control	Ľ	Data Outpu
Application Date 04.11.2020	Server Power Control	Convertor		
Publication Number	æ	L1 L2	L,	
2020103224	Æß	LED lamps	ý ģ	
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A 4	Received Data	Amplification & Processing		1
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		Fig 1DRL-Smart Beamfo	orming Scenario	
Applicants	Abstract			
verna institute of rechnology	(EN) Visible light communica	ation is a smart commu	unication technique for its tion and robustness again:	unique features of st interference. The
Inventors	VLC provides line-of-sight t	ransmission and bette	r coverage property amo	ng its competitive
CHANDRA, SEKHAR D. HEMA, SEKHAR A.	communication techniques a and network administrator. T	and are prone to securit be visible light commun	ty loopholes affecting actu vication channel broadcast	ial legitimate users
M., Murali V. Geetha	VLC downlink susceptible	to unauthorized term	inals in offices and sho	pping zones. The
., UUUII	range. An efficient and sec	ure transmission tech	nique required to avoid e	eavesdropping. The
	scenario considered here is	of multiple input single	e output (MISO) where the	ere is multiple light
SUNDARAM, AKUN DR	channel. The invention fram	ework has smart bear	nforming over the MISO VI	_C wiretap channel
	which reduces the capability	of information interfere	ence. The Deep reinforcem	ent learning based
	and action and to avoid	quantization error in 1	RL based algorithm. Fig	1 Fig 1DRL-Smart
	Beamforming Scenario		5	5

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