

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111014492 A

(19) INDIA

(22) Date of filing of Application :30/03/2021

(43) Publication Date : 23/12/2022

(54) Title of the invention : COMFORTABLE PET CARRYING DEVICE

(51) International classification	:A45F0003040000, A45F0003140000, B05B0009080000, A45F0003120000, G08B0021020000	(71) Name of Applicant : 1)Chandigarh Group of Colleges, Jhanjeri Address of Applicant :State Highway 12A Jhanjeri, Sahibzada Ajit Singh Nagar, Punjab 140307, India. Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Kuldeepak Saini
(33) Name of priority country	:NA	2)Taranveer Singh
(86) International Application No	:NA	3)Anikate Gupta
Filing Date	:NA	4)Girish Mishra
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a comfortable pet carrying device, comprising, a backpack 1 segregated into two portions, first 2 portion is equipped with multiple omnidirectional wheels 4 for autonomous movement of backpack and second 3 portion includes set of suspender straps 5 helping user in carrying pet rested inside backpack, navigation module 6 integrated in backpack for determining location of user and navigating automated movement of backpack towards user, suspended load arrangement 7 for restricting impact of weight force incident on user while manually lifting backpack comfortably, spatial motion sensor for detecting linear acceleration and angular velocity of backpack when user carries backpack manually for detecting probable falling condition, safety unit that comprises of multiple cushions deployed in response to output provided by spatial sensor for preventing physical damage to pet in case compartment falls. Ref. Figure 1

No. of Pages : 15 No. of Claims : 6