

OPIC Notes de l'examen / CIPO Examination Notes

Ce document est un supplément d'information aux RRI et OE / This document is a supplement to the information contained in the ISR and WO.

1. Renseignements généraux / General Information			
No. de la demande/ Application No.	PCT/CA2020/050387	Date de dépôt / Filing Date	25 March 2020 (25-03-2020)
No. de référence / Reference Number	JD-G17092-00003	Date de priorité / Priority Date	28 March 2019 (28-03-2019)
Déposant / Applicant	10270725 CANADA CORP.		
CIB / IPC	IPC: B64C 27/08 (2006.01), B64C 15/12 (2006.01), B64C 27/52 (2006.01), B64C 39/02 (2006.01)		
Titre / Title	MULTICOPTER HELICOPTER AND METHOD OF MANUFACTURE THEREOF		

2. Détails de la recherche / Search Details		Ch. I
	<i>(Cocher toutes les cases pertinentes) / (check all that apply)</i>	<i>Commentaires / Comments</i>
restrictions de dates / date restrictions	<input type="radio"/> Date de dépôt / Filing <input checked="" type="radio"/> Aucune / None	<i>(détails / details)</i>
Antériorités relevées par le déposant ont été considérées / prior art noted by applicant considered	<input checked="" type="radio"/> Oui / Yes <input type="radio"/> SO / N/A	<i>(détails / details)</i> US9616994B2, W02018139661A1, US10124888B2
Divulgations antérieures par le déposant et l'inventeur(s) ont été considérées / applicant and inventor(s) prior disclosures considered	<input checked="" type="radio"/> Oui / Yes <input type="radio"/> SO / N/A	<i>(détails / details)</i> None found.

3. Documentation de la recherche / Search Documentation
(Indiquer clairement les bases de données /les outils de recherche utilisés et ajouter les chaînes de recherche/l'historique de recherche/stratégies de recherche) / (Clearly identify database(s) /search tool(s) used and append search strings/search history/search strategy)

Database : Questel-Orbit

Base : FAMPAT

SEARCH STRATEGY:

SS Results

29 100 ..SIMILARITY SS 28 RANKED 1

28 1 EP2690012 /PN

27 6 ..CITBF US20180362160 /PN

26 0 ((MOSSA 3D RAMEE))/IN OR (TRI_STAR 3D MULTI_COPTERS)/PA

25 20 (MULTI_COPTER AND (TAIL 3D (ROTORS OR PROPELLERS)) AND (TILT+ OR ROTAT+ OR PIVOT+))/TI/AB/TX AND (B64C-027+ OR B64C-015+ OR B64C-039+)/IPC

24 0 (MULTICOPTER? AND (TAIL 3D (ROTORS OR PROPELLERS)) AND (TILT+ OR ROTAT+ OR PIVOT+) AND (ANTI_TORQUE) AND SHROUD+)/TI/AB/TX AND (B64C-027+ OR B64C-015+ OR B64C-039+)/IPC

23 66 ..CITBF US20170349273 /PN

22 47 (HELICOPTER? AND (TAIL 3D (ROTORS OR PROPELLERS)) AND (TILT+ OR ROTAT+ OR PIVOT+) AND (ANTI_TORQUE) AND SHROUD+)/TI/AB/TX AND (B64C-027+ OR B64C-015+ OR B64C-039+)/IPC

21 224 (HELICOPTER? AND (TAIL 3D (ROTORS OR PROPELLERS)) AND (TILT+ OR ROTAT+ OR PIVOT+) AND (ANTI_TORQUE))/TI/AB/TX AND (B64C-027+ OR B64C-015+ OR B64C-039+)/IPC

20 100 (HELICOPTER? AND (TAIL 3D (ROTORS OR PROPELLERS)) AND (TILT+ OR ROTAT+ OR PIVOT+) AND (TWO 3D TAIL) AND (TWO 3D (ROTORS OR PROPELLERS)))/TI/AB/TX AND (B64C-027+ OR B64C-015+ OR B64C-039+)/IPC

19 43 18 NOT (2 OR 4 OR 5 OR 6 OR 7 OR 9 OR 10 OR 11 OR 12 OR 14 OR 16)
18 67 ((MAIN W (ROTOR? OR PROPELLER?)) AND (SECOND+ W (ROTOR? OR PROPELLER?)) AND (TAIL 3D (ROTOR? OR PROPELLER?)) AND (TAIL 3D (SECOND+ OR AUXILIARY)))/TI/AB/TX AND (B64C-027+ OR B64C-015+ OR B64C-039+)/IPC
17 15 16 NOT (2 OR 4 OR 5 OR 6 OR 7 OR 9 OR 10 OR 11 OR 12 OR 14)
16 33 ((MAIN W (ROTOR? OR PROPELLER?)) AND (SECOND+ W (ROTOR? OR PROPELLER?)) AND ((SMALLER 3D (ROTOR? OR PROPELLER?)) OR (LARGER 3D (ROTOR? OR PROPELLER?))) AND (YAW 3D (ROTOR? OR PROPELLER?)))/TI/AB/TX AND (B64C-027+ OR B64C-015+ OR B64C-039+)/IPC
15 164 14 NOT (2 OR 4 OR 5 OR 6 OR 7 OR 9 OR 10 OR 11 OR 12)
14 175 ((THREE_COPTER OR TRI_COPTER))/TI/AB/TX AND (B64C-027+ OR B64C-015+ OR B64C-039+)/IPC
13 3 12 NOT (2 OR 4 OR 5 OR 6 OR 7 OR 9 OR 10 OR 11)
12 7 ((MAIN W (ROTOR? OR PROPELLER?)) AND (SECOND+ W (ROTOR? OR PROPELLER?)) AND (THREE_COPTER OR TRI_COPTER))/TI/AB/TX AND (B64C-027+ OR B64C-015+ OR B64C-039+)/IPC
11 23 ..CITBF WO201884261 /PN
10 16 ..CITBF US20160325829 /PN
9 22 ..CITBF US20160244157 /PN
8 84 7 NOT (2 OR 4 OR 5 OR 6)
7 89 ..CITBF US20140158816 /PN
6 29 ..CITBF EP2690012 /PN
5 25 ..CITBF CN102730189 /PN
4 122 ((MAIN W (ROTOR? OR PROPELLER?)) AND (SECOND+ W (ROTOR? OR PROPELLER?)) AND ((SMALLER 3D (DIAMETER OR SIZE)) OR (LARGER 3D (DIAMETER OR SIZE))))/TI/AB/TX AND (B64C-027+ OR B64C-015+ OR B64C-039+)/IPC
3 25526 (B64C-027/08 OR B64C-015/12 OR B64C-027/52 OR B64C-039/02)/IPC
2 8 (B64C-027/08 AND B64C-015/12 AND B64C-027/52 AND B64C-039/02)/IPC
1 0 ((MOSSA 3D RAMEE))/IN OR (10270725)/PA

4. Documents pertinents identifiés / Relevant Documents Found

(En plus des documents cités par le RRI, d'autres documents qui pourraient s'avérer pertinents lors d'un traitement supplémentaire (p.ex., Chapitre II) peuvent être inclus. Les documents devraient être identifiés en tant que document X, Y ou A. Cependant, une explication supplémentaire de chaque document n'est pas nécessaire. / In addition to the documents cited in the ISR, other documents which may be considered relevant in further prosecution (e.g. Ch. II) may be included. Documents should be identified as either X, Y or A document, however, no further explanation of each document is necessary.)

X Documents :

EP2690012 A1 (FINK, A. et al.) 29 January 2014 (29-01-2014)
US20140158816 A1 (DELOREAN, P.J., et al.) 12 June 2014 (12-06-2014)
CN102730189 A (ZHENG, P.) 17 October 2012 (17-10-2012)
CN204895855 U (WANG, Q.) 23 December 2015 (23-12-2015)
WO2007014531 A1 (HAN, P.) 8 February 2007 (08-02-2007)

A Documents:

CN107416198 A (HE, C.) 1 December 2017 (01-12-2017)
US20150274289 A1 (NEWMAN, D.I., et al.) 1 October 2015 (01-10-2015)
US20160244157 A1 (WELSH, R.D.) 25 August 2016 (25-08-2016)
US20160325829 A1 (AHN, H.S., et al.) 10 November 2016 (10-11-2016)
US20180362160 A1 (GRONINGA, K.L., et al.) 20 December 2018 (20-12-2018)
WO2018084261 A1 (SUZUKI, H., et al.) 11 May 2018 (11-05-2018)
CN107697279 A (JIANG, F.) 16 February 2018 (16-02-2018)

5. CIB additionels / Additional IPCs

B64C-027+, B64C-015+, B64C-039+