		Search Information Statement (SIS)	
Australian Government **IP Australia**		**Application Number**	**PCT/AU2018/000085**

A. Search Details			
Additional Members of the Search Team (if convened):	A. Ahmed, K. Leck	**Earlier Search Results (if available)**	
		Current SIS Completion Date	4 July 2018

B. Search Strategy

Applicant/Inventor Search

AUSPAT/Espacenet: STUART, Michael Christopher (as AP)/ STUART, Michael Christopher (as Inv)
Applicant/inventor search also conducted through internal IP Australia

Epoque Internal

Search Strategy 1
Databases: PATENW = WPIAP, EPODOC and English full text

PATENW	Results	Query
1	908	/CNN/LOW E02D5/803
> 2	928	*XT {..FAMEX SS 1 FROM PATENW}
> 3	236	2 AND ((OR MULTI+, SEVERAL, PLURAL+, TWO, DUAL, 2ND, SECO+, DOUBL+) 4D (OR MEMBER+, ARM+, LEG+, TINE+, WING+, PRONG+, SPIK+, LIMB+, FOOT+, FEET))
> 4	136	2 AND ((OR HAMMER+, IMPAC+, STRIKE+, MALLET+, KNOCK+, DRIV+) 4D (OR SPREAD+, SPLAY+, EXPAND+, PIVOT+, FAN+, UMBRELLA+, ROTAT+, +STOW+, DEPLOY+, EXTEND+))
> 5	35	2 AND ((OR CONCRETE+, CEMENT+) S (OR MESH+, SLEEVE+,NET+,REO+, REINFORC+))
> 6	180	2 AND ((OR SELF+, AUTO+, FORC+, PUSH+) 6D (OR SPREAD+, SPLAY+, EXPAND+, PIVOT+, FAN+, UMBRELLA+, ROTAT+, +STOW+, DEPLOY+, EXTEND+))
> 7	140	2 AND (21UG (OR GROUND, EARTH, DIRT), (OR FORC+, PUSH+),(OR SPREAD+, SPLAY+, EXPAND+, PIVOT+, FAN+, UMBRELLA+, ROTAT+, +STOW+, DEPLOY+, EXTEND+))

Results of SS 3 - 7 viewed.

Search Strategy 2
Databases: PATENW = WPIAP, EPODOC and English full text

PATENW	Results	Query
1	3.731	/IC/CNN/LOW (OR E04H12/2215, E01F9/685)
> 2	3.804	*XT {..FAMEX SS 1 FROM PATENW}
> 3	1.075	2 AND ((OR MULTI+, SEVERAL, PLURAL+, TWO, DUAL, 2ND, SECO+, DOUBL+) 4D (OR MEMBER+, ARM+, LEG+, TINE+, WING+, PRONG+, SPIK+, LIMB+, FOOT+, FEET, ANCHOR+))
> 4	210	3 AND ((OR HAMMER+, IMPAC+, STRIKE+, MALLET+, KNOCK+, DRIV+) 4D (OR SPREAD+, SPLAY+, EXPAND+, PIVOT+, FAN+, UMBRELLA+, ROTAT+, +STOW+, DEPLOY+, EXTEND+))
> 5	162	3 AND (21UG (OR GROUND, EARTH, DIRT), (OR FORC+, PUSH+),(OR

SPREAD+, SPLAY+, EXPAND+, PIVOT+, FAN+, UMBRELLA+, ROTAT+, +STOW+, DEPLOY+, EXTEND+))

> 6	157	**3 AND ((OR CONCRETE+, CEMENT+) S (OR MESH+, SLEEVE+,NET+,REO+, REINFORC+))**
> 7	238	**3 AND ((OR SELF+, AUTO+, FORC+, PUSH+) 6D (OR SPREAD+, SPLAY+, EXPAND+, PIVOT+, FAN+, UMBRELLA+, ROTAT+, +STOW+, DEPLOY+, EXTEND+))**

Results of SS 4 - 7 viewed.

Search Strategy 3
Databases: PATENW = WPIAP, EPODOC and English full text

PATENW	Results	Query
1	66.983	/IC/CNN/LOW (OR B63B21/24, E02D5/80, E01F9/60, E04C5/12, E02D27/[02, 42,50], E04H12/22)
> 2	72.213	*XT {..FAMEX SS 1 FROM PATENW}
> 3	19.546	2 AND ((OR FOUNDAT+, GROUND+, EARTH+, TERRA+, SOIL+, DIRT+, LAND+, TURF+) 6D (OR STAKE, SPIKE, ANCHOR+, HOOK+, PILE+, MOOR+, SUPPORT+, POST+, POLE+, PEG+, PICKET+, PIER+, PIL[E,ING]+))
> 4	5.152	3 AND ((OR MULTI+, SEVERAL, PLURAL+, TWO, DUAL, 2ND, SECO+, DOUBL+) 4D (OR MEMBER+, ARM+, LEG+, TINE+, WING+, PRONG+, SPIK+, LIMB+, FOOT+, FEET))
> 5	422	4 AND (12UG (OR SELF+, AUTO+, FORC+, PUSH+), (OR MEMBER+, ARM+, LEG+, TINE+, WING+, PRONG+, SPIK+, LIMB+, FOOT+, FEET), (OR SPREAD+, SPLAY+, EXPAND+, PIVOT+, FAN+, UMBRELLA+, ROTAT+, +STOW+, DEPLOY+, EXTEND+))
> 6	169	**4 AND (12UG (OR GROUND, EARTH, DIRT), (OR FORC+, PUSH+),(OR SPREAD+, SPLAY+, EXPAND+, PIVOT+, FAN+, UMBRELLA+, ROTAT+, +STOW+, DEPLOY+, EXTEND+))**
> 7	144	**5 AND ((OR HAMMER+, IMPAC+, STRIKE+, MALLET+, KNOCK+, DRIV+) 4D (OR SPREAD+, SPLAY+, EXPAND+, PIVOT+, FAN+, UMBRELLA+, ROTAT+, +STOW+, DEPLOY+, EXTEND+))**
> 8	77	**5 AND ((OR CONCRETE+, CEMENT+) S (OR MESH+, SLEEVE+,NET+,REO+, REINFORC+))**

Results of SS 6 - 8 viewed.

Search Strategy 4
Databases: PATENW = WPIAP, EPODOC and English full text

$COMBI	Results	Query
1	9	/PN WO2013114055 OR US4189879 OR US1907759 OR US4593500 OR US3512319 OR US1015611 { input }
2	12	OR (/PN WO2013114055 OR US4189879 OR US1907759 OR US4593500 OR US3512319 OR US1015611),(*M1/PN),(*M2/PR) { patent number(s) and family members to combi }
3	107	**OR (/CTP/CTL WO2013114055 OR US4189879 OR US1907759 OR US4593500 OR US3512319 OR US1015611),(*M3/CTP/CTL),(*M4/PN),(*M5/AP) { cited & citing documents from ultraCombi }**

Results of SS 3 viewed.

Search Strategy 5
Databases: PATENW = WPIAP, EPODOC and English full text

$COMBI	Results	Query
1	2	/PN US5899640 { input }

2	3	OR (/PN US5899640),(*M1/PN),(*M2/PR) { patent number(s) and family members to combi }
3	**6**	**OR (/CTP/CTL US5899640),(*M3/CTP/CTL),(*M4/PN),(*M5/AP) { cited & citing documents from ultraCombi }**

Results of SS 3 viewed.

Other Searches

<u>Google Patents</u>
Searched various combinations and similar terms of foundation, spike and spread.

All citing and cited of relevant prior art documents viewed in Espacenet, Google Patents.

Applicant(s)/Inventor(s) name searched in internal databases provided by IP Australia