

SEARCH HISTORY

Application Number	PCT/US 18/51983
Search Conducted By	ADS
Search Approved By	ADS
CPC/IPC Classifications Searched	IPC(8): F01D 17/06 (2018.01) CPC: F03D 3/04; F03D 3/0409; F03D 3/0454; F01D 17/00; F01D 17/06
Date Conducted	22 November 2018 (22.11.2018)
Documentation Searched	IPC(8): F01D 17/06 (2018.01); CPC: F03D 3/04; F03D 3/0409; F03D 3/0454; F01D 17/00; F01D 17/06 (keyword limited; terms below)
Search Terms Used	Overspeed, governor, torque, limit, rotational, drive, motor, actuator, fly, weight, torque, aircraft, spring, speed, structural ground, jam, disconnect.
Date Conducted	22 November 2018 (22.11.2018)
Electronic Database Searched	PatBase
Files Searched	Full-text: AU BE BR CA CH CN DE DK EP ES FI FR GB IN JP KR SE TH TW US WO Bibliographic: (Europe) AT BA BE BG CH CS CY CZ DD DK EE ES FI GE GR HR HU IE IS IT LT LU LV MC MD MT NL NO PL PT RO RS SE SI SK SM TR UA YU (Asia) EA GC HK ID IL IN KZ MN MY PH RU SG SU TH TJ TW UZ VN (North America) CA CR CU DO GT HN MX NI PA SV TT (South America) AR BR CL CO EC PE UY (Australasia) AU NZ (Africa) AP DZ EG KE MA MW OA ZA ZM ZW
Date Conducted	22 November 2018 (22.11.2018)
Search Logic:	
1 ic=(F01D17/06) 535 2 cpc=(F03D3/04 OR F03D3/0409 OR F03D3/0454 OR F01D17/00 OR F01D17/06) 1894 3 1 OR 2 2199 4 3 AND (overspeed WF2 governor) 5 5 3 AND (torque WF2 limit*) 5 6 3 AND (rotational Wf2 (drive OR motor OR actuator)) 9 7 3 AND (rotational W3 limit*) 27 8 3 AND (fly Wf2 weight) 3	

9 (overspeed WF2 governor) 1251
 10 9 AND (torque WF2 limit*) 10
 11 (torque WF2 limiter) 9982
 12 11 AND aircraft 322
 13 12 AND (limit W4 spring) 10
 14 12 AND (speed w3 limit) 11
 15 12 AND (structural WF2 ground*) 2
 16 4 OR 5 OR 6 OR 7 OR 8 OR 13 OR 14 OR 15 70
 17 RF=(ind1851983) 10
 18 (CTF 17) OR (CTB 17) 123
 19 18 AND 11 2
 20 18 AND 9 1
 21 pa=moog 1064
 22 inv=larson 8341
 23 21 OR 22 9392
 24 23 AND 11 9
 25 23 AND 9 0
 26 19 OR 20 OR 24 12

Electronic Database Searched	PubWEST
Files Searched	USPT,PGPB,EPAB,JPAB
Date Conducted	22 November 2018 (22.11.2018)

Search Logic:

DB=PGPB,USPT,EPAB,JPAB; PLUR=YES; OP=OR
 Date L11 L10 OR L7 38 L11 L11 L11
 Date L10 L9 AND disconnect 3 L10 L10 L10
 Date L9 L1 AND spring 72 L9 L9 L9
 Date L8 L7 AND governor 0 L8 L8 L8
 Date L7 L6 AND spring 35 L7 L7 L7
 Date L6 L4 AND disconnect 44 L6 L6 L6
 Date L5 L4 AND (structural NEAr2 ground) 0 L5 L5 L5
 Date L4 L3 AND (rotational NEAr3 limit\$5) 579 L4 L4 L4
 Date L3 (torque NEAr2 limiter) 10953 L3 L3 L3
 Date L2 L1 AND (torque NEAr2 limiter) 0 L2 L2 L2
 Date L1 over NEAr2 speed NEAr2 governor 148 L1 L1 L1

DB=PGPB,USPT,USOC,EPAB,JPAB; PLUR=NO; OP=ADJ
 Date L15 L14 OR L11 15 L15 L15 L15
 Date L14 L13 AND limiter 14 L14 L14 L14
 Date L13 torque AND (structural NEAr2 ground) 178 L13 L13 L13
 Date L12 L10 AND (structural NEAr2 ground) 0 L12 L12 L12
 Date L11 L10 AND (rotational NEAr3 limit) 1 L11 L11 L11
 Date L10 (torque limiter) AND governor 78 L10 L10 L10

Electronic Database Searched	Google Scholar
Files Searched	All articles, excluding patents

Date Conducted	22 November 2018 (22.11.2018)
Search Logic:	
"torque limiter" "over-speed governor"	0
"torque limiter" "structural ground"	1
"torque limiter" aircraft jam	82
"torque limiter" "zero torque"	26

Electronic Database Searched	Dialog ProQuest
Files Searched	ABI/INFORM® Professional Standard, AGRICOLA, AGRIS, Allied & Complementary Medicine™, Analytical Abstracts, British Library Inside Conferences, British Nursing Index, Business & Industry, Business Monitor International, Chemical Business Newbase, Chemical Engineering & Biotechnology Abstracts, Economist Intelligence Unit, Ei EnCompassLIT, Emerging Markets Direct, Energy Science and Technology, ESPICOM Pharmaceutical & Medical Device News, FDAnews, FLUIDEX (Fluid Engineering Abstracts), Gale Group Computer Database™, Gale Group Health Periodicals Database, Gale Group New Product Announcements / Plus®, Gale Group Newsletter Database™, Gale Group PharmaBiomed Business Journals, Gale Group PROMT®, Gale Group Trade & Industry Database™, GEOBASE , HSELINE: Health and Safety, ICONDA - International Construction Database, Inspec®, Jane's Defense & Aerospace News, Lancet Titles, Material Safety Datasheets -OHS™, MEDLINE®, New England Journal of Medicine, Paperbase, PAPERCHEM, PIRABASE, ProQuest Biological & Health Science Professional, ProQuest Environmental Science Professional, ProQuest Newsstand Professional, ProQuest Research, ProQuest Technology Research Professional, Registry of Toxic Effects of Chemical Substances (RTECS®), ToxFile®, Transport Research International Documentation, TULSA™ (Petroleum Abstracts), UBM Computer Full Text, Weldasearch®
Date Conducted	22 November 2018 (22.11.2018)

Search Logic:	
Set#: S1	Searched for: torque NEAr/2 limiter Results: 2936°
Set#: S2	Searched for: s1 AND (structural NEAR2/ ground) Results: 0°
Set#: S3	Searched for: s1 AND (over NEAR/2 speed NEAR/2 governor) Results: 0°
Set#: S4	Searched for: s1 AND disconnect Results: 70°
Set#: S5	Searched for: s4 AND governor Results: 4°
Set#: S6	Searched for: s4 AND (torque NEAr/5 spring) Results: 9°

Set#: S7 Searched for: s5 OR s6 Results: 13°

° Duplicates are removed from the search and from the result count.

Electronic Database Searched	FreePatentsOnline
Files Searched	USPat, USPgPub, EPO, JPO, WIPO, DE; word stemming on
Date Conducted	22 November 2018 (22.11.2018)
Search Logic:	
<p>("over speed governor"~4 or "overspeed governor"~4) and ("torque limiter"~4) 9 results ("over speed"~2 or overspeed) and ("torque limiter"~4) and (brake or disconnect) 277 results abst/("over speed"~2 or overspeed) and ("torque limiter"~4) and (brake or disconnect) 13 results ("speed governor"~4 or overspeed) and ("torque limiter"~4) and (brake or disconnect) 144 results ("aircraft overspeed"~6) and ("torque limiter"~4) 0 results (aircraft and overspeed) and ("torque limiter"~4) 23 results</p>	