

Search history

- Search 1: TAC=(BACKWASH*) AND FT=((SEPARATOR OR SEPARATION) AND ((LIQUID OR WATER OR FLUID) W9 (GAS OR AIR OR OXYGEN OR NITROGEN)) AND ((GAR OR AIR OR OXYGEN OR NITROGEN) W9 RECYCL*)) (Results 40)
- Search 2: FT=((FILTER OR PACKED OR FLUID*) W2 (BED OR FILTER)) AND ((AIR OR GAS OR OXYGEN OR NITROGEN) W9 BACKWASH*) (Results 3139)
- Search 3: (2) AND FT=((AIR OR GAS OR OXYGEN OR NITROGEN) W5 (RECYCL* OR REUS* OR RECOVER*)) (Results 154)
- Search 4: (3) AND FT=((((GAS OR AIR OR OXYGEN OR NITROGEN) W3 (LIQUID OR WATER OR FLUID)) W9 (SEPARAT*)) (Results 28)
- Search 5: [SP]: filter bed backwash system and process with recycled gas a system and method for recycling gas in a backwash process is provided. the backwash process removes contaminants from a bed of filtration media. the method includes generating a mixed liquid–gas stream from the backwash process, withdrawing the mixed liquid–gas stream from the backwash process, separating the mixed liquid–gas stream into a liquid and a gas, and recycling at least a portion of the separated gas to the backwash process. (Results 6)
- Search 6: SFT=(((GAS OR AIR) W3 BACKWASH*) AND (WATER W3 FILTER)) (Results 510)
- Search 6: (6) AND SFT=((GAS OR AIR) W5 (RECYCL*)) (Results 48775)
- Search 7: SFT=(((AIR OR GAS) W5 (BACKWASH*)) AND (WATER W3 FILTER) AND BED) (Results 285)
- Search 8: (7) AND SFT=(((AIR OR GAS) W5 (RECYCL* OR REUS* OR RETURN* OR RECOVER*)) AND ((COUNTER W1 CURRENT) OR (BACK W1 FLOW) OR REVERSE)) (Results 11)

- session log created:23 October 2018 15:37:19

- Update information:

PatBase Coverage at Update 2018 Week 42 (Year 2018 Week 42)

PatBase Coverage includes 100+ million documents from over 100 patent–issuing authorities and includes patent applications, granted patents, utility models and designs â€” detailed in the below coverage listings.

Major countries

Publishing body	Document type	Bibliographic publication date		Full–Text publication date	
		Earliest	Latest	Earliest	Latest
CN China	Patent Applications	19850910	20181019	19850910	20181019
	Patents	19930106	20181019	19930106	20181019
	Utility Model Applications	19850409	19921230	19850409	19921230
	Utility Models	19930106	20181019	19930106	20181019
	Designs	19850910	20181019	19850910	20150819
DE Germany	Patent Applications	19211221	20181018	19650317	20181018
	Patents	18770101	20181018	19200113	20181018
	Utility Models	19280626	20181018	19610831	20181018

	EP/WO Patents	19871217	20140410		
EP European Patent Office	Patent Applications	19781220	20181017	19781220	20181017
	Patents	19800109	20181017	19800109	20181017
FR France	Patent Applications	19690307	20181019	19810102	20180928
	Patents	18550227	20181019	19600502	20181012
	Utility Model Applications	19720107	20181019	19800104	20180928
	Utility Models	19730112	20181019	19690802	20181012
GB United Kingdom	Unpublished Patent Applications	19830209	20181010		
	Patent Applications	19790104	20181017	19790104	20181003
	Patents	17820704	20181017	19020911	19811216
JP Japan	Patent Applications	19710116	20181018	19930108	20181011
	Patents	19281026	20181003	19960529	20181003
	Utility Model Applications	19710723	20060209	19990817	20031107
	Utility Models	19640805	19960329		
	Registered Utility Models	19940726	20181004	19940726	20101216
	Designs	20141110	20181015		
KR Republic of Korea	Patent Applications	19781209	20181019	19800531	20181019
	Patents	19700820	20181019	19770628	20181019
	Utility Model Applications	19781127	20181019	19940730	20181019
	Utility Models	19780110	20181019	19970104	20181019
US United States of America	Patent Applications	20010315	20181018	20010315	20181018
	Patents	18360101	20181016	18560617	20181016
	Designs	18650912	20181016	19770719	20181016
WO World Intellectual Property Organization (WIPO)	Patent Applications	19781019	20181018	19781019	20181018
	Designs	20151023	20181019	20151023	20181019

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- **search:** SS1 TAC=((BACKWASH*)) AND FT=((SEPARATOR OR SEPARATION) AND ((LIQUID OR WATER OR FLUID) W9 (GAS OR AIR OR OXYGEN OR NITROGEN)) AND ((GAR OR AIR OR OXYGEN OR NITROGEN) W9 RECYCL*)) (Results 40)
- List: SS1 1-50 (TAC=((BACKWASH*)) AND FT=((SEPARATOR OR SEPARATION) AND ((LIQUID OR WATER OR FLUID) W9 (GAS OR AIR OR OXYGEN OR NITROGEN)) AND ((GAR OR AIR OR OXYGEN OR NITROGEN) W9 RECYCL*)) (Results 40)
- **search:** SS2 FT=((FILTER OR PACKED OR FLUID*) W2 (BED OR FILTER)) AND ((AIR OR GAS OR OXYGEN OR NITROGEN) W9 BACKWASH*) (Results 3139)
- **search:** SS3 (2) AND FT=((AIR OR GAS OR OXYGEN OR NITROGEN) W5 (RECYCL* OR REUS* OR RECOVER*)) (Results 154)

- **search:** SS4 (3) AND FT=(((GAS OR AIR OR OXYGEN OR NITROGEN) W3 (LIQUID OR WATER OR FLUID)) W9 (SEPARAT*)) (Results 28)
- List: SS4 1–50 ((3) AND FT=(((GAS OR AIR OR OXYGEN OR NITROGEN) W3 (LIQUID OR WATER OR FLUID)) W9 (SEPARAT*))) (Results 28)
- **search:** SS5 [SP]: filter bed backwash system and process with recycled gas a system and method for recycling gas in a backwash process is provided. the backwash process removes contaminants from a bed of filtration media. the method includes generating a mixed liquid–gas stream from the backwash process, withdrawing the mixed liquid–gas stream from the backwash process, separating the mixed liquid–gas stream into a liquid and a gas, and recycling at least a portion of the separated gas to the backwash process. (Results 6)
- List: SS5 1–50 ([SP]: filter bed backwash system and process with recycled gas a system and method for recycling gas in a backwash process is provided. the backwash process removes contaminants from a bed of filtration media. the method includes generating a mixed liquid–gas stream from the backwash process, withdrawing the mixed liquid–gas stream from the backwash process, separating the mixed liquid–gas stream into a liquid and a gas, and recycling at least a portion of the separated gas to the backwash process.) (Results 6)
- List: SS4 1–50 ((3) AND FT=(((GAS OR AIR OR OXYGEN OR NITROGEN) W3 (LIQUID OR WATER OR FLUID)) W9 (SEPARAT*))) (Results 28)
- List: SS3 1–50 ((2) AND FT=((AIR OR GAS OR OXYGEN OR NITROGEN) W5 (RECYCL* OR REUS* OR RECOVER*))) (Results 154)
- **search:** SS6 SFT=(((GAS OR AIR) W3 BACKWASH*) AND (WATER W3 FILTER)) (Results 510)
- List: SS6 1–50 (SFT=(((GAS OR AIR) W3 BACKWASH*) AND (WATER W3 FILTER))) (Results 510)
- cancel last search
- cancel last search
- **search:** SS6 (6) AND SFT=((GAS OR AIR) W5 (RECYCL*)) (Results 48775)
- **search:** SS7 SFT=(((AIR OR GAS) W5 (BACKWASH*) AND (WATER W3 FILTER) AND BED) (Results 285)
- **search:** SS8 (7) AND SFT=(((AIR OR GAS) W5 (RECYCL* OR REUS* OR RETURN* OR RECOVER*)) AND ((COUNTER W1 CURRENT) OR (BACK W1 FLOW) OR REVERSE)) (Results 11)
- List: SS8 1–50 ((7) AND SFT=(((AIR OR GAS) W5 (RECYCL* OR REUS* OR RETURN* OR RECOVER*)) AND ((COUNTER W1 CURRENT) OR (BACK W1 FLOW) OR REVERSE))) (Results 11)