

SEARCH HISTORY

Application Number	PCT/US 18/35693
Search Conducted By	WAA
Search Approved By	SV

CPC/IPC Classifications Searched	CPC - A61J 1/065, A61J 1/1468, B32B 17/06; IPC(8) - B65D 25/34 (2018.01)
Date Conducted	05 August 2018

Documentation Searched	CPC - A61J 1/065, A61J 1/1468, B32B 17/06; IPC(8) - B65D 25/34 (2018.01)
Search Terms Used	reconditioning glass reducing atmosphere method system process manufacture draining emptying metling vessel reactor batch changeover fuel-rich atmospheric pressure
Date Conducted	05 August 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	05 August 2018
Search Logic:	

- 1 PA=corning 32597
 2 INV=(anderson or de angelus or delamilleure or kintake or lamberson) 45948
 3 1 or 2 78446
 4 3 and FT=(reconditioning w3 glass) w6 reducing atmosphere 0
 5 3 and FT=(reconditioning w3 glass) w4 manufactur* 0
 6 3 and FT=recondition* w3 glass 4
 7 6 and FT=reduc* w2 atmosphere 0
 8 3 and FT=(reduc* w2 atmosphere) w5 draining 0
 9 3 and FT=(reduc* w2 atmosphere) 534
 14 9 and FT=(drain* or empty*)` w4 glass melt 0
 15 9 and FT=(drain* or empty*) w4 glass 0
 16 9 and FT=(drain* or empty*) w6 vessel 0
- 1 CPC=(A61J1/065 or A61J1/1468 or B32B17/06) 2639 more...
 2 IC=(B65D25/34 or B65025/34) 4330
 3 1 or 2 6965
 4 3 and FT=(reconditioning w3 glass) w6 reducing atmosphere 0
 5 3 and FT=(reduc* w2 atmosphere) w5 drain* 0
 6 3 and FT=(reduc* w2 atmosphere) 41
 7 6 and FT=(drain* or empty*)` w4 glass melt 0
 8 6 and FT=(drain* or empty*) w6 (glass or vessel) 0
 9 6 and FT=recondition* 1
 10 6 and FT=batch w2 changeover 0
 11 3 and FT=(reduc* w2 atmosphere) w5 vessel 0
 12 6 and CC=US 35
 13 3 and FT=(reduc* w2 atmosphere) w4 fuel-rich 0
 16 3 and FT=(drain* or empty*) w4 glass melt 0
 17 3 and FT=(reduc* w2 condition) w4 fuel-rich 0
 18 3 and FT=((reduc* w2 atmosphere or condition) w4 fuel) w2 (rich or high or excess) 0
- 1 FT=(reconditioning w3 glass) w6 reducing atmosphere 0
 2 FT=(reducing atmosphere w3 glass) w3 vessel 0
 3 FT=(reducing atmosphere) w3 glass 167
 4 3 and FT=(drain* or empty*) w2 glass 0
 5 FT=((reducing atmosphere) w3 glass) w3 melt* 5
 6 FT=((reducing atmosphere) w3 glass) w3 (empty* or drain*) 0
 7 TA=glass w2 manufactur* 15010
 8 7 and FT=reducing atmosphere 130
 9 7 and FT=reducing atmosphere w3 recondition* 0
 10 7 and FT=(reducing atmosphere w4 (drain* or empty*)) w4 (vessel or reactor) 0
 11 7 and FT=reducing atmosphere w4 batch change 0
 12 7 and FT=reducing atmosphere w5 (fuel rich or fuel-rich) 0
 13 FT=reducing atmosphere w5 (fuel rich or fuel-rich) 30
 14 13 and glass w2 (making or production or manufactur*) 0
- 1 TA=(glass w2 melting and (method or process or system)) 5318
 2 1 and FT=drain* 189
 3 2 and FT=reducing w2 atmosphere 5
 4 3 and FT=(fuel w2 rich or fuel-rich) 0
 5 FT=(glass w2 melting) w3 (method or process or system) 1288
 6 5 and FT=drain* w5 (glass or melt) 40
 7 5 and FT=(drain* w5 (glass or melt)) w5 reducing atmosphere 0
 8 6 and FT=reducing atmosphere 3

9 8 and FT=fuel w2 rich or fuel-rich 0

1 TA=glass melter 140

2 1 and FT=drain* 14

3 2 and FT=reducing atmosphere 2

1 TA=(glass w2 melting and (method or process or system)) 5318 View | Browse | Hits | Optimise | more...

2 1 and FT=pressure w3 (vessel or melter) 28

3 1 and FT=(pressure w3 (vessel or melter)) w5 atmospher* 3

4 2 not 3 25

6 1 and FT=reduc* w2 atmosphere 117

7 6 and FT=fuel-rich or fuel w2 (rich or excess*) 8

8 1 and FT=(reduc* w2 atmosphere) w5 (fuel or fuel-rich) 0

Electronic Database Searched	Google
Files Searched	Google Patents
Date Conducted	05 August 2018
Search Logic:	

reconditioning glass melt reducing atmosphere 34015 results

emptying glass melt vessel under reducing atmosphere 27419 results

recharging glass melting vessel under reducing atmosphere 40996 results

making glass melt under fuel rich atmosphere 37956 results

melting glass under fuel-rich atmosphere 9103 results

Electronic Database Searched	Google
Files Searched	Google Scholar
Date Conducted	05 August 2018
Search Logic:	

glass melting under reducing atmosphere 324000 results

emptying glass melt vessel under reducing atmosphere

18600 results

reconditioning glass melter reducing atmosphere

18500 results

supplemental

Electronic Database Searched	Google
Date Conducted	15 August 2018
Search Logic:	

"glass manufacturing" melting vessel
About Page 1 of about 3,361 results

"glass manufacturing" "melting vessel" reducing atmosphere
About Page 1 of about 367 results