



Patents

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| Product | Patent Number | Pending Applications |
|-----------------------------------|---|--|
| ACE Ball Drop | 8,307,892 , 8,899,317 , 9,062,522 9,163,477 , 9,441,448 , 9,534,463 9,562,415 , D657,807 , D694,280 D705,821 | CA2,783,904 , CA2,791,072 CA2,856,987 , 15/806,826 CA2,985,278 |
| ACE Flo-Back | 8,307,892 , 9,062,522 , 9,163,477 9,441,448 , 9,534,463 , 9,562,415 D657,807 , D684,612 , D694,280 D703,713 , D705,821 | CA2,783,904 , CA2,791,072 CA2,856,987 , 15/806,826 CA2,985,278 |
| Bullet Ball Drop | CA2,663,423 , 8,079,413 , 8,459,346 8,496,052 , 9,309,744 , 9,359,855 9,534,463 , 9,850,738 , D694,282 D697,088 | CA2,783,904 |
| Bullet Flo-Back | 9,359,855 , 9,534,463 , D694,281 D694,282 , D697,088 , D698,370 D703,698 | CA2,783,904 |
| CR Magnum Series Collet | CA2,603,337 , 7,762,323 , 8,783,341 9,062,522 , 9,441,448 , 9,562,415 10,385,936 | CA2,783,904 , CA2,856,987 |
| CR Magnum Series Interventionless | 10,053,949 | |
| CR Magnum Series Poppet | 9,062,522 , 9,441,448 , 9,562,415 10,385,936 | CA2,783,904 , CA2,856,987 |
| Dual Magnum Disk | 7,806,189 , 8,813,848 , 9,194,209 9,291,031 | |
| Electric Setting Tool | | CA2,910,136 , 14/922,969 |
| Extreme Single Magnum Disk | 7,806,189 , 8,813,848 , 9,194,209 9,291,031 | |
| Fastballs | 8,899,317 , 9,587,475 | CA2,985,278 |
| Flapper Stimulation Valve | CA2,528,130 , 7,287,596 , 7,624,809 7,708,066 , 8,157,012 , 8,739,881 | |



| Product | Patent Number | Pending Applications |
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| Hollow Point | 9,534,463 | CA2,895,507 , CA2,935,508 14/677,242 , 15/189,090 15/355,346 , 15/403,739 15/806,826 , PCT/US13/76054 PCT/US15/37636 , CA2,985,278 |
| Interventionless | CA2,856,927 , 7,806,189 , 8,813,848 9,291,031 , 9,382,778 | 15/654,156 |
| Interventionless (Finger Style) | 7,806,189 , 8,813,848 , 9,291,031 10,107,070 | CA2,937,076 |
| Long Range Gen 1 Ball Drop | 8,307,892 , 9,388,662 , 9,441,448 9,850,736 , D657,807 , D673,182 D694,280 , D705,821 , 9,534,463 | CA2,783,904 , CA2,791,072 CA2,856,987 , 14/999,637 15/697,572 |
| Long Range Gen 1 Bridge Plug | 8,307,892 , 9,062,522 , 9,388,662 9,441,448 , 9,562,415 , 9,850,736 D657,807 , D672,794 , D673,182 D694,280 , D705,821 , 9,534,463 | CA2,783,904 , CA2,791,072 CA2,856,987 , 14/999,637 15/697,572 |
| Long Range Gen 1 Flo-Back | 8,307,892 , 9,388,662 , 9,441,448 9,850,736 , D657,807 , D684,612 D694,280 , D703,713 , D705,821 9,534,463 | CA2,783,904 , CA2,791,072 CA2,856,987 , 14/999,637 15/697,572 |
| Long Range Gen 2 Ball Drop | 8,307,892 , 9,163,477 , 9,388,662 9,441,448 , 9,850,736 , D657,807 D673,182 , D694,280 , D705,821 9,534,463 | CA2,783,904 , CA2,791,072 CA2,856,987 , 14/999,637 15/697,572 |
| Long Range Gen 2 Bridge Plug | 8,307,892 , 9,062,522 , 9,109,428 9,163,477 , 9,388,662 , 9,441,448 9,562,415 , 9,850,736 , D657,807 D672,794 , D673,182 , D694,280 D705,821 , 9,534,463 | CA2,783,904 , CA2,791,072 CA2,856,987 , 14/999,637 15/697,572 |
| Long Range Gen 2 Flo-Back | 8,307,892 , 9,163,477 , 9,388,662 9,441,448 , 9,850,736 , D657,807 D684,612 , D694,280 , D703,713 D705,821 , 9,534,463 | CA2,783,904 , CA2,791,072 CA2,856,987 , 14/999,637 15/697,572 |
| Magnum Series Ball Drop | 8,307,892 , 9,062,522 , 9,163,477 9,441,448 , 9,562,415 , D657,807 D694,280 , D705,821 , 9,534,463 | CA2,783,904 , CA 2,791,072 CA2,856,987 |
| Magnum Series Bridge Plug | 8,307,892 , 9,062,522 , 9,109,428 9,163,477 , 9,441,448 , 9,562,415 D657,807 , D672,794 , D694,280 D705,821 , 9,534,463 | CA2,783,904 , CA 2,791,072 CA2,856,987 |
| Magnum Series Flo-Back | CA2,639,342 , 8,191,633 , 8,307,892 9,062,522 , 9,163,477 , 9,441,448 9,562,415 , D657,807 , D684,612 D694,280 , D703,713 , D705,821 9,534,463 | CA2,783,904 , CA 2,791,072 CA2,856,987 |



| Product | Patent Number | Pending Applications |
|---------------------------------|---|---|
| Magnum Series Flow Check | 8,307,892 , 9,062,522 , 9,163,477 9,441,448 , 9,562,415 , D657,807 D684,612 , D694,280 , D705,821 9,534,463 | CA2,783,904 , CA 2,791,072 CA2,856,987 |
| Mechanical Set Retainers | CA2,603,337 , 7,762,323 , 8,783,341 9,441,448 , 10,053,949 | CA2,783,904 , CA2,856,987 |
| Mill E-Z Ball Drop | 9,441,448 , 9,534,463 | CA2,783,904 , CA2,856,987 |
| Mill E-Z Bridge Plug | 6,796,376 , 9,441,448 , 9,534,463 | CA2,783,904 , CA2,856,987 |
| Mill E-Z Collet | CA2,603,337 , 7,762,323 , 8,783,341 9,441,448 , 10,053,949 | CA2,783,904 , CA2,856,987 |
| Mill E-Z Flo-Back | 9,441,448 , 9,534,463 | CA2,783,904 , CA2,856,987 |
| Mill E-Z Flow check | 9,441,448 , 9,534,463 | CA2,783,904 , CA2,856,987 |
| Mill E-Z Poppet | 9,441,448 , 10,053,949 | CA2,783,904 , CA2,856,987 |
| MVP | CA2,663,423 , 8,079,413 , 8,459,346 8,496,052 , 8,899,317 , 9,127,527 9,181,772 , 9,217,319 , 9,309,744 9,359,855 , 9,500,061 , 9,506,309 9,534,463 , 9,587,475 , D694,282 D697,088 | CA2,895,507 , CA2,935,508 15/189,090 , 15/355,346 15/403,739 , PCT/US13/76054 15/672,790 , 15/806,826 CA2,985,278 |
| PerfXtender | CA2,604,996 , 7,861,785 , 8,033,333 | |
| Rapid Mill Ball Drop | CA2,663,423 , 8,079,413 , 8,307,892 8,459,346 , 8,496,052 , 8,899,317 9,062,522 , 9,163,477 , 9,309,744 9,359,855 , 9,441,448 , 9,562,415 D657,807 , D694,280 , D694,282 D697,088 , D705,821 , 9,534,463 | CA2,783,904 , CA 2,791,072 CA2,856,987 |
| Rapid Mill Ball Drop-Bottom Set | CA2,663,423 , 8,079,413 , 8,307,892 8,459,346 , 8,496,052 , 8,899,317 D694,282 , D697,088 , 9,163,477 9,309,744 , 9,359,855 , 9,441,448 9,850,738 , 9,534,463 | CA2,783,904 , CA2,856,987 |
| Rapid Mill Bridge Plug | CA2,663,423 , 8,079,413 , 8,307,892 8,459,346 , 8,496,052 , 9,062,522 9,109,428 , 9,163,477 , 9,441,448 9,562,415 , D657,807 , D672,794 D694,280 , D694,282 , D697,088 D705,821 , 9,534,463 | CA2,783,904 , CA2,791,072 CA2,856,987 |
| Rapid Mill Flo-Back | CA2,663,423 , 8,079,413 , 8,307,892 8,459,346 , 8,496,052 , 9,062,522 9,163,477 , 9,441,448 , 9,562,415 D657,807 , D684,612 , D694,280 D698,370 , D703,698 , D703,713 D705,821 , 9,534,463 | CA2,783,904 , CA2,791,072 CA2,856,987 |



| Product | Patent Number | Pending Applications |
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| Rapid Mill Flow check | CA2,663,423 , 8,079,413 , 8,307,892 8,459,346 , 8,496,052 , 9,062,522 9,163,477 , 9,359,855 , 9,441,448 9,562,415 , D657,807 , D684,612 D694,280 , D694,281 , D694,282 D697,088 , D698,370 , D703,698 D705,821 , 9,534,463 | CA2,783,904 , CA2,856,987 |
| Single Magnum Disk | 7,806,189 , 8,813,848 , 9,194,209 9,291,031 | |
| Smart Sleeve | CA2,639,341 | |
| Snub Nose Ball Drop | 8,307,892 , 8,899,317 , 9,062,522 9,163,477 , 9,441,448 , 9,562,415 D657,807 , D673,183 , D694,280 D705,821 , 9,534,463 | CA2,783,904 , CA2,791,072 CA2,856,987 |
| Snub Nose Bridge Plug | 8,307,892 , 9,062,522 , 9,109,428 9,163,477 , 9,441,448 , 9,562,415 D657,807 , D672,794 , D673,183 D694,280 , D705,821 , 9,534,463 | CA2,783,904 , CA2,791,072 CA2,856,987 |
| Snub Nose CTS | | 15/806,826 , CA2,985,278 |
| Snub Nose Flo-Back | CA2,639,342 , 8,191,633 , 8,307,892 9,062,522 , 9,163,477 , 9,441,448 9,562,415 , D657,807 , D673,183 D684,612 , D694,280 , D703,713 D705,821 , 9,534,463 | CA2,783,904 , CA2,791,072 CA2,856,987 |
| Snub Nose Flow check | 8,307,892 , 9,062,522 , 9,163,477 9,441,448 , 9,562,415 , D657,807 D673,183 , D684,612 , D694,280 D705,821 , 9,534,463 | CA2,783,904 , CA2,791,072 CA2,856,987 |