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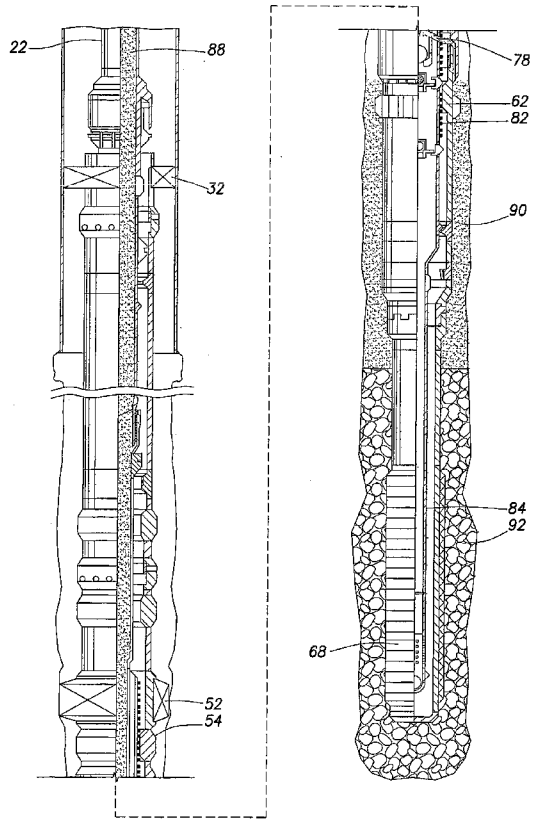
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(54) Title: ONE TRIP LINER CONVEYED GRAVEL PACKING AND CEMENTING SYSTEM




(57) Abstract: A well completion assembly including apparatus for gravel packing and cementing in a single trip. An outer assembly (28) comprises: a liner and screen; a valved gravel packing port; upper and lower valved cementing ports; and seal bores positioned below and above the gravel packing port and above and below the lower cementing port. An inner assembly (30) includes: a crossover having an outer seal body and shifters to allow opening and closing of valves in the gravel packing and cementing ports. In one position, the crossover seal body mates with seal bores below and above the gravel packing port to allow flow of gravel packing slurry through the gravel packing port. In a second position, the crossover seal body mates with seal bores below and above the lower cementing port to allow flow of cement through the lower cementing port.

WO 2006/041825 A3

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