

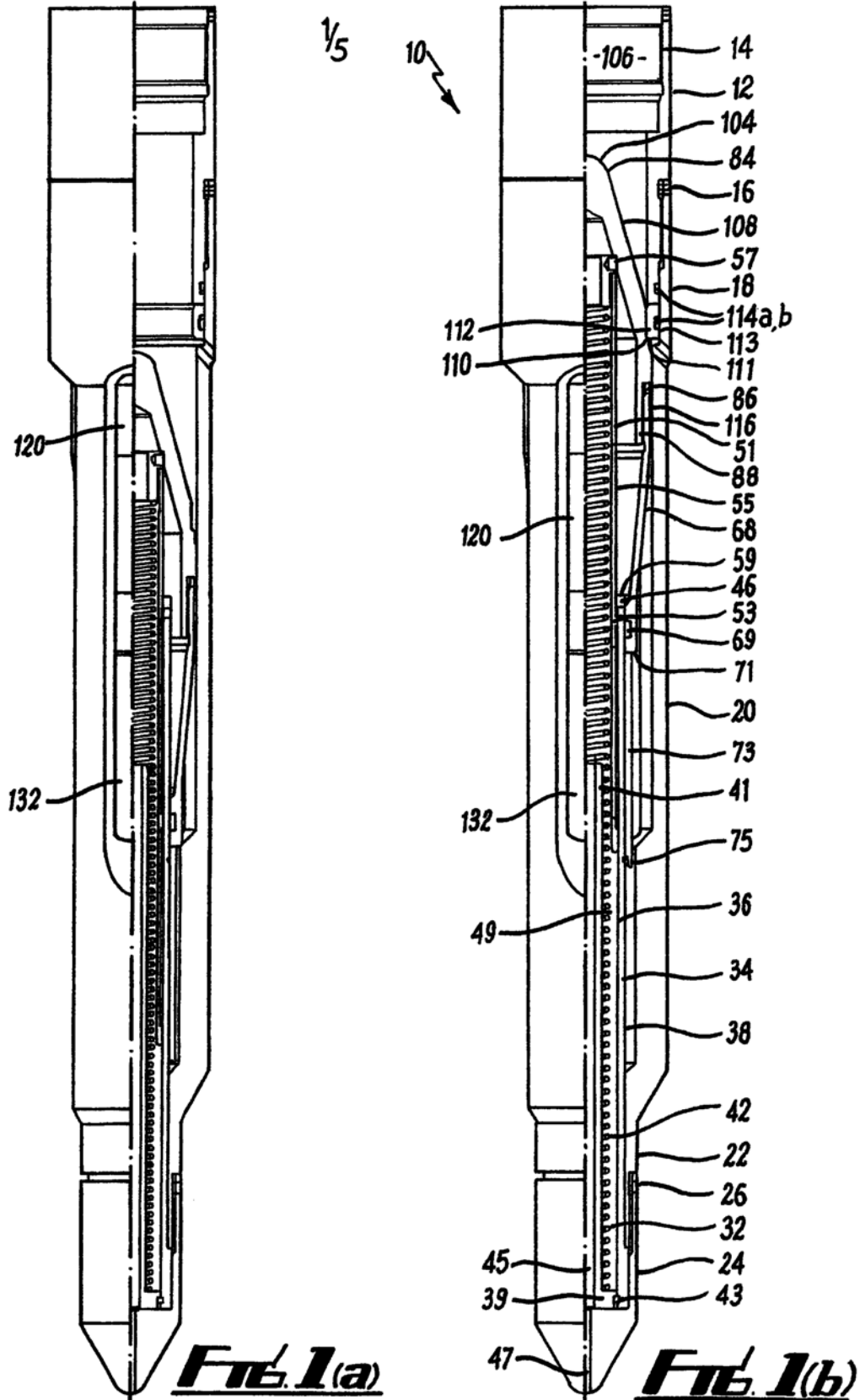
Appendix 1 – Relevant Claims

1. A valve for use in a downhole tool, the valve comprising a substantially tubular body including a first end for connection to a wireline lock or packer, the first end having a first inlet communicating with a work string providing a flow path of a first cross-sectional area; one or more ports located on the body, the ports providing a flow path of a combined cross-sectional area greater than the first cross-sectional area; a sealing assembly comprising a seal cap movable in relation to the body to open and close the ports; wherein fluid flow through the inlet moves the seal cap to open the valve and create an unimpeded flow path between the inlet and the ports with negligible pressure drop.

25. A method of injecting fluid into a well bore, the method comprising the steps:
 - (a) locating an injection valve on an anchoring device at an end of work string;
 - (b) running the work string to a required depth;
 - (c) sealing the string to a wall of the well bore using the anchoring device;
 - (d) passing fluid at a first pressure through the work string; and
 - (e) using the fluid to open the valve and thereby inject fluid through an unimpeded path through the valve into the well bore while maintaining fluid pressure at the first pressure.

27. A method as claimed in Claim 25 or 26 wherein the injection valve is according to any one of Claims 1 to 24.

Appendix 2 – Patent drawings



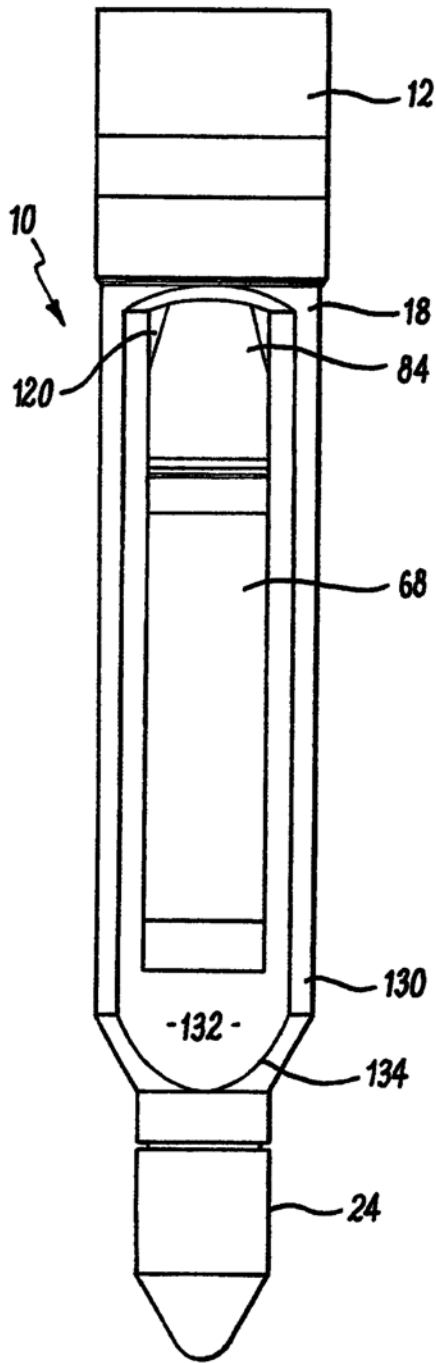


FIG. 2(a)

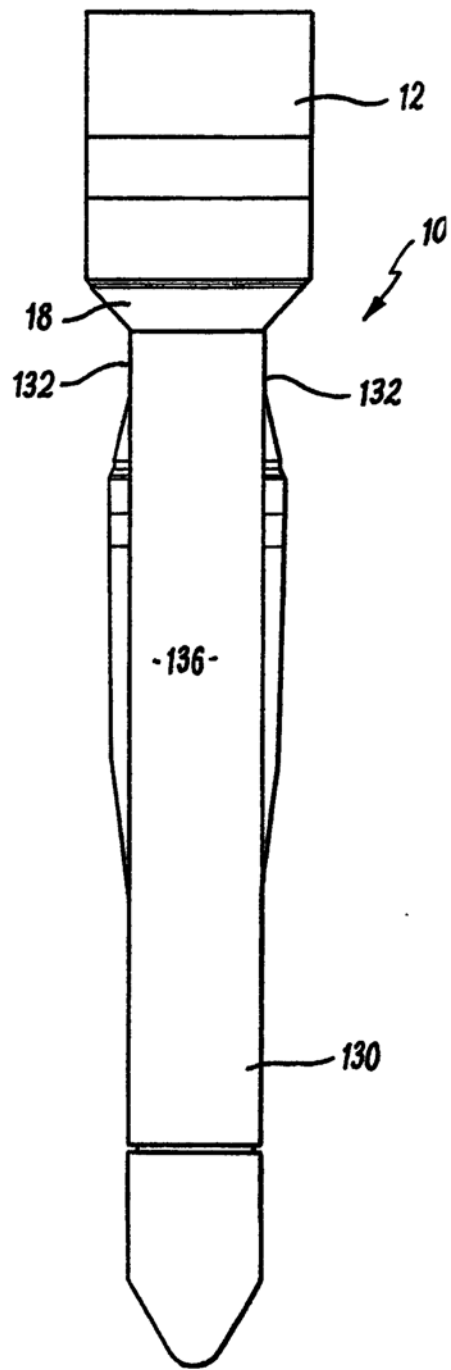
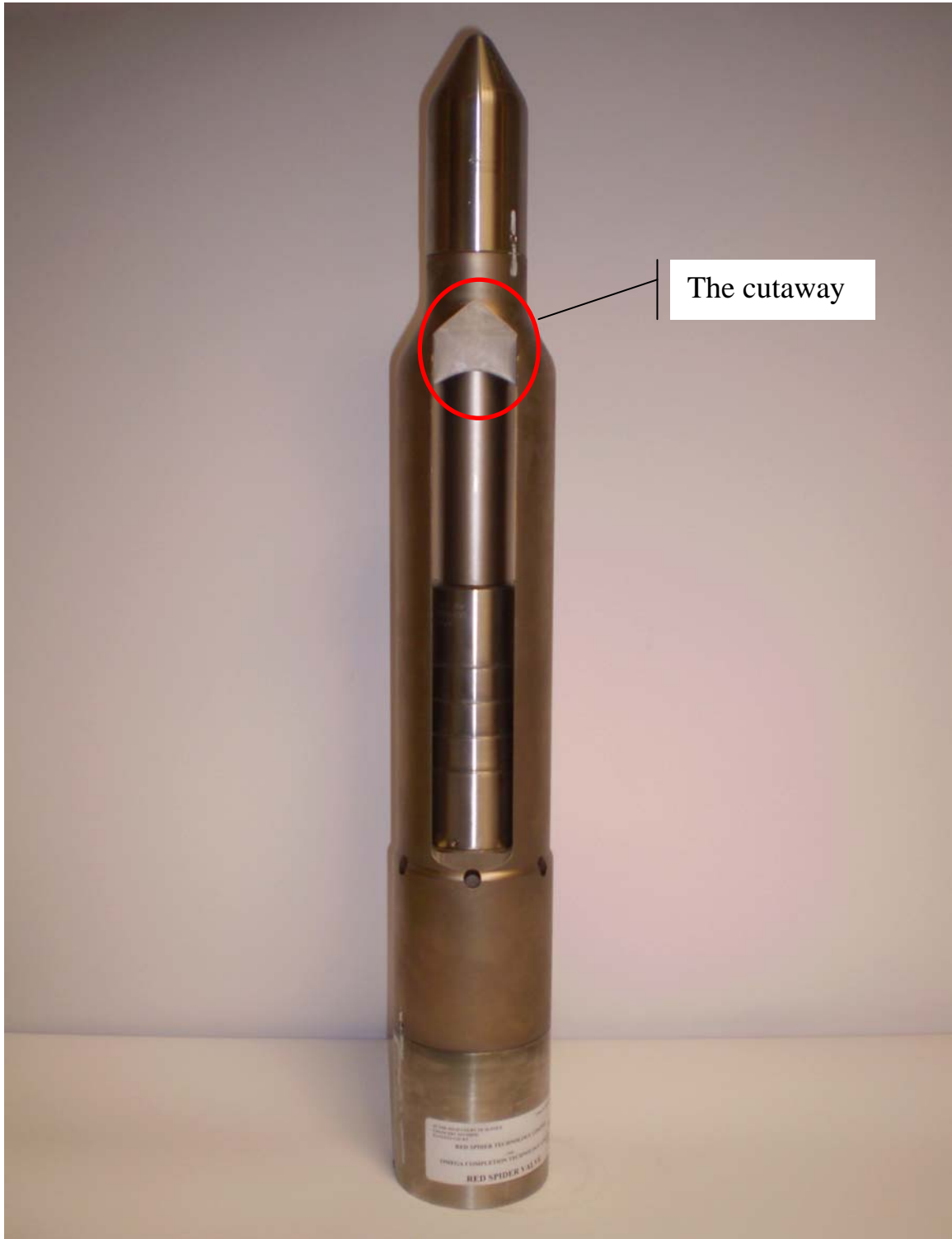


FIG. 2(b)

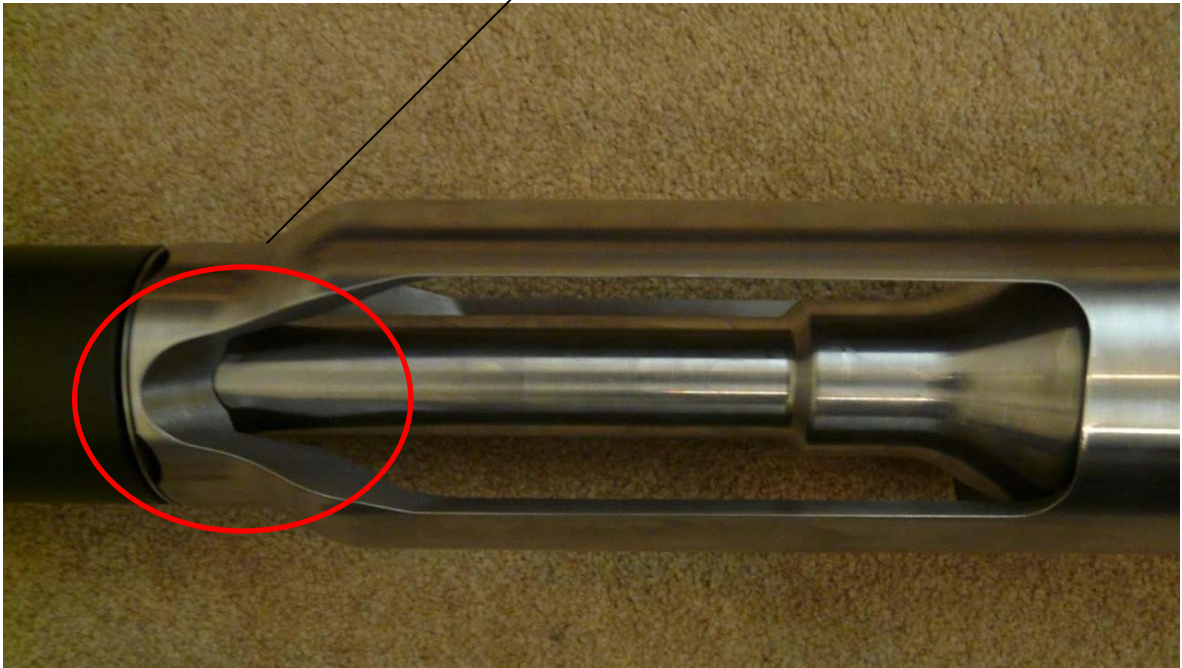
Appendix 3 – Red Spider valve



Appendix 4 – Omega valve



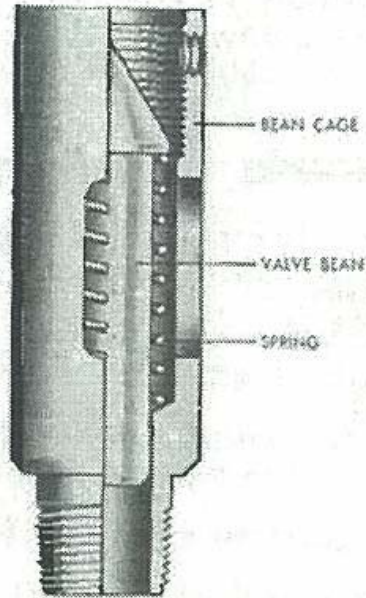
The cutaway



Appendix 5 – the two valves side by side



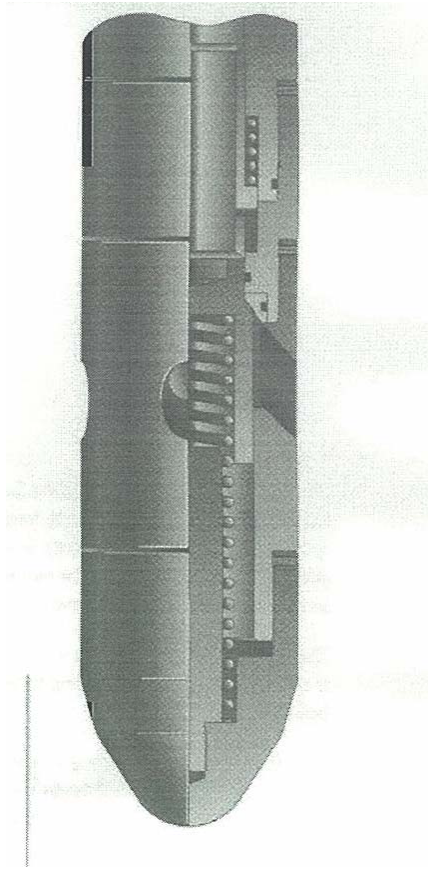
Appendix 6 – Otis



*Type T Otis
Spring-Loaded
Injection Safety Valve*

Inserts over through the

Appendix 7 – Petroline valve



Appendix 8 – Burt

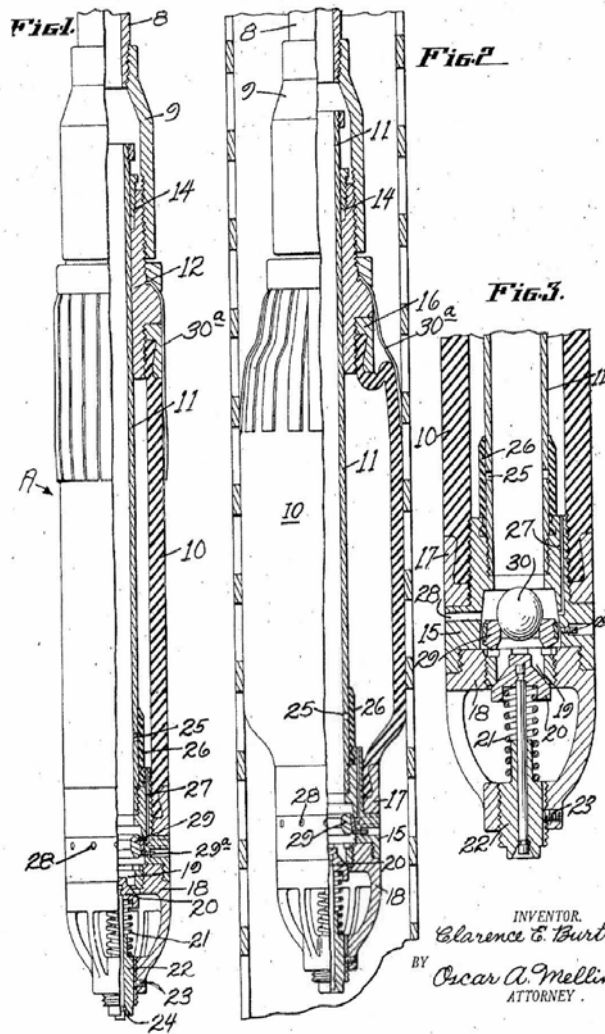
May 23, 1944.

C. E. BURT

Re. 22,483

CEMENTING, WASHING, AND ACIDIZING RETAINER FOR OIL WELLS

Original Filed May 5, 1939



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