Multifunction downhole barrier plug/valve

We have filed a patent application on a new product, that can be used in wellbores where a downhole barrier (plug or valve) are requested either as wireline inserted or as an integrated part of the well completion string.

Features:

- Wireline or coiled tubing installed/retrieved, or integrated as a well completion component
  - As wireline installed barrier, the unit can use locks or slips, depending on well completion features present
- Will hold pressure from below
- Pressure equalizing or pumping through closed plug is possible by pumping fluids into well above barrier
- A barrier that can be opened and closed as many times one wants, without any wellbore interventions
  - No need to mobilize a wireline crew, loose production etc. while rigging up, running into well, etc., to open or close the valve
- A barrier that can be used in additional to bullheading the reservoir for well completions/recompletions or installation of insert technologies within existing tubing (as e.g. our own insert gas lift solution)
- No electronics or batteries
- No cable or control line to surface

Technology background:
Working with a North Sea operating company on our insert gas lift solution, a requirement for a downhole barrier in additional to bullheading (killing) the well came up. We thereafter came up with a solution to achieve this.
The solution is based on using standard components available from a number of wireline/well completion component suppliers, introducing a new innovative component and combining these.

We are seeking partners to design, build, qualify and introduce this product to the global wellbore market.

Patent pending.
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Contact us with your challenges!