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(54) **SYSTEM AND METHOD FOR SELECTIVE ACTIVATION OF DOWNHOLE DEVICES IN A TOOL STRING**

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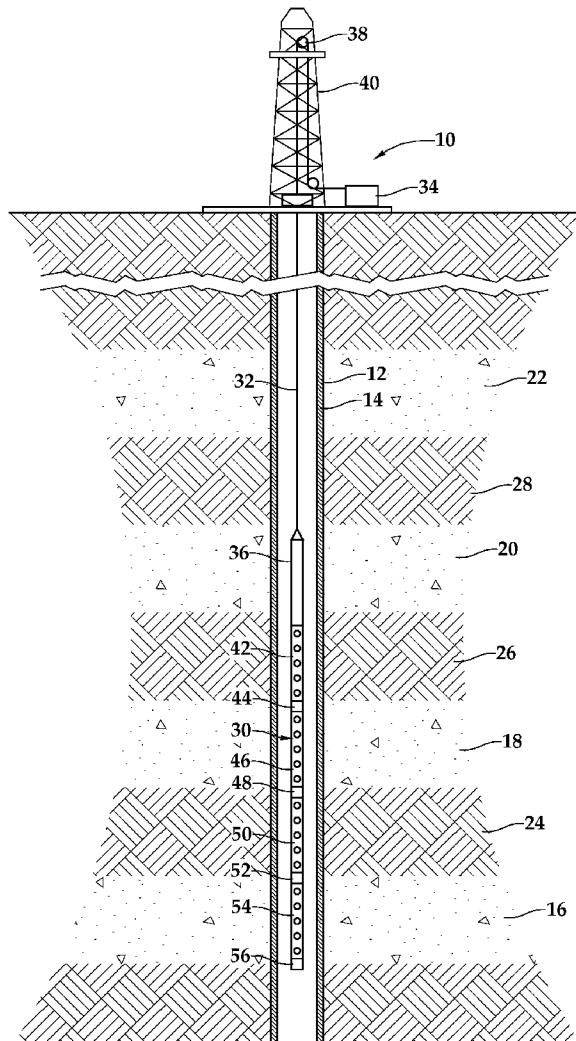
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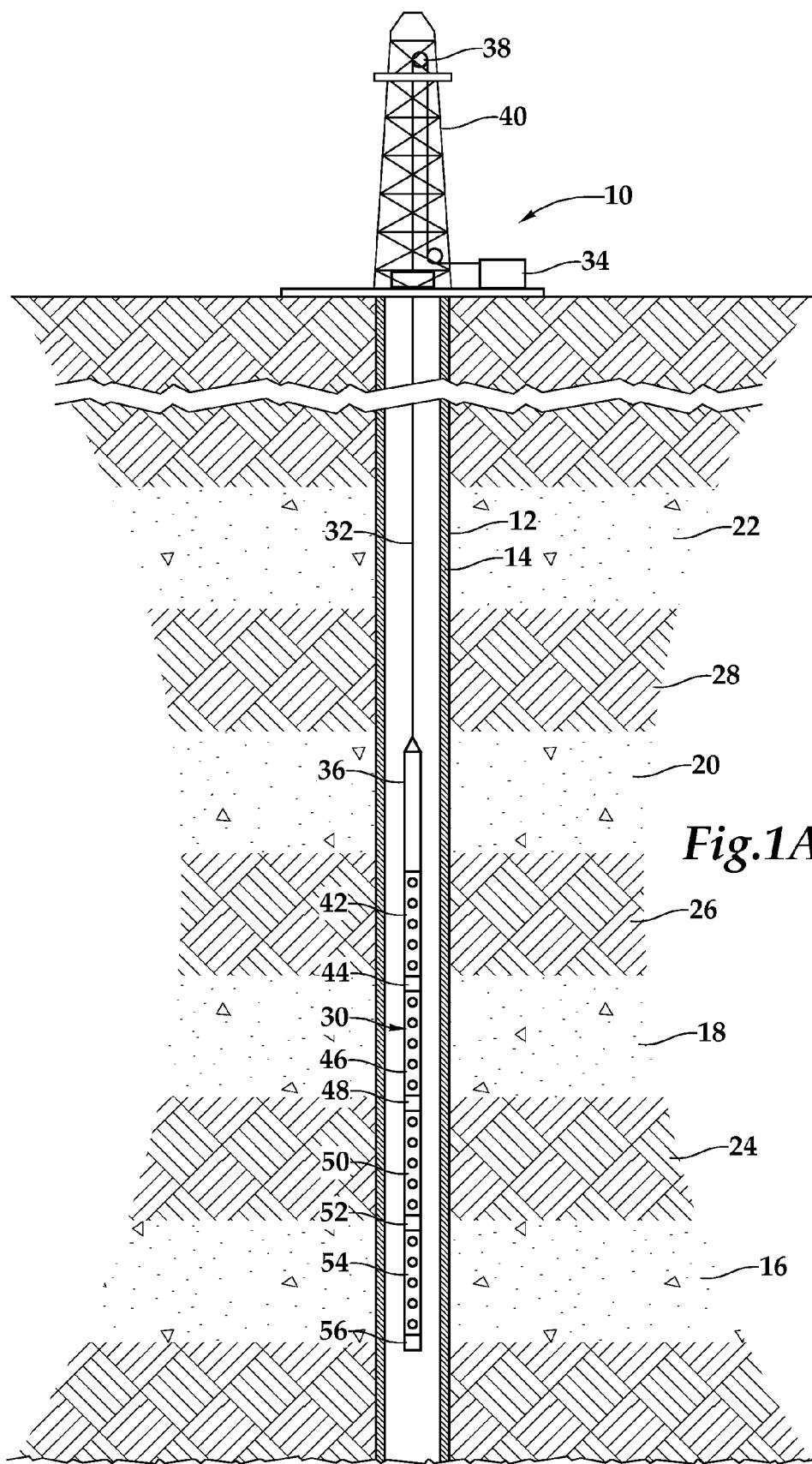
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(57) **ABSTRACT**

A system (100) for selective activation of explosive devices (126, 128, 130, 132) includes a surface controller (102), a downhole controller (106) operable to communicate bidirectionally with the surface controller over a first communication link (108) and a plurality of downhole remote units (114, 116, 118, 120) operable to communicate bidirectionally with the downhole controller (106) over a second communication link (112). One or more sensors (162) are operably associated with the downhole controller (106) and one of the explosive devices (126, 128, 130, 132) is operably associated with each of the downhole remote units (114, 116, 118, 120) such that, responsive to a detonation event, the sensors (162) detect the intensity level of the detonation which is communicated from the downhole controller (106) to the surface control (102) over the first communication link (108).





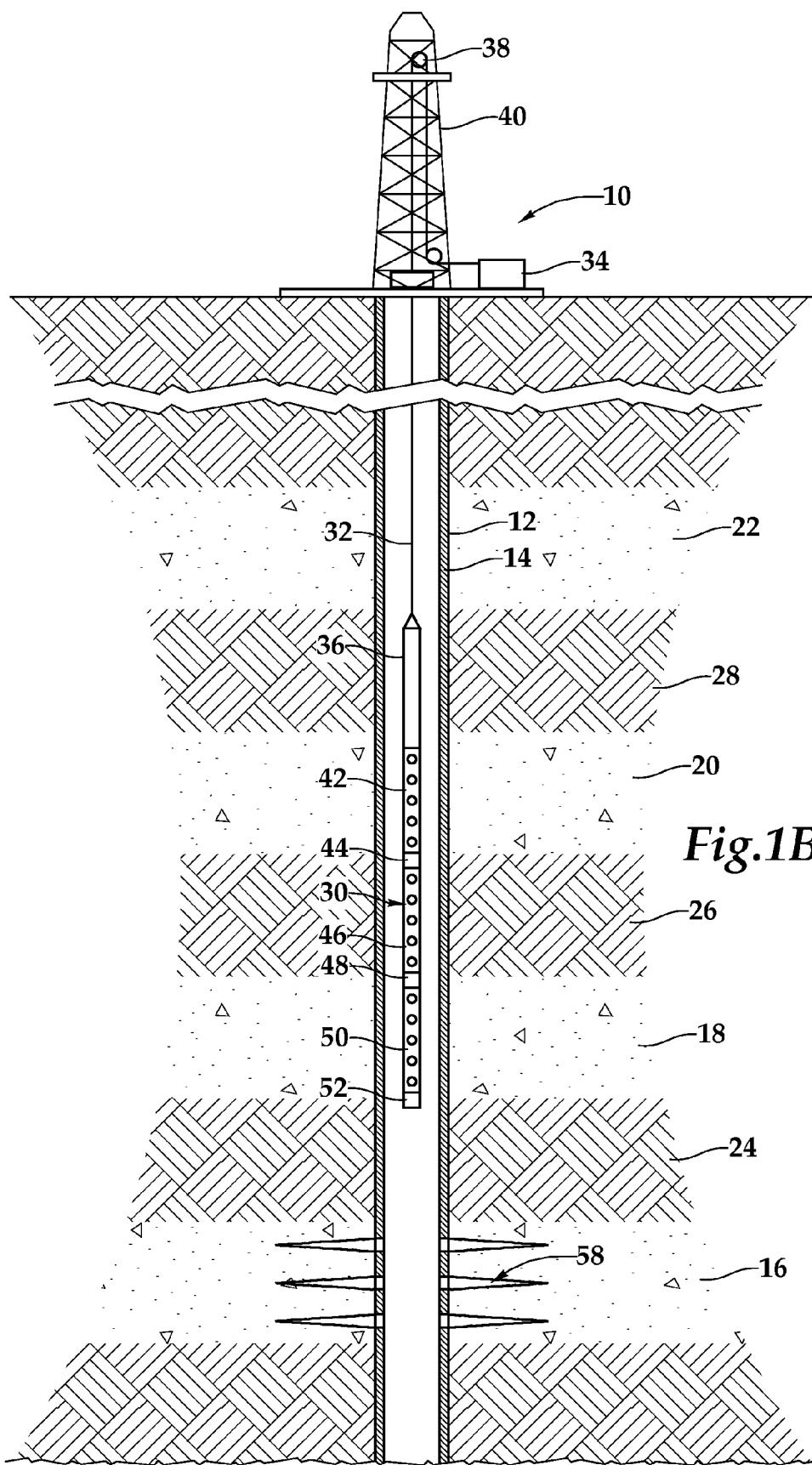
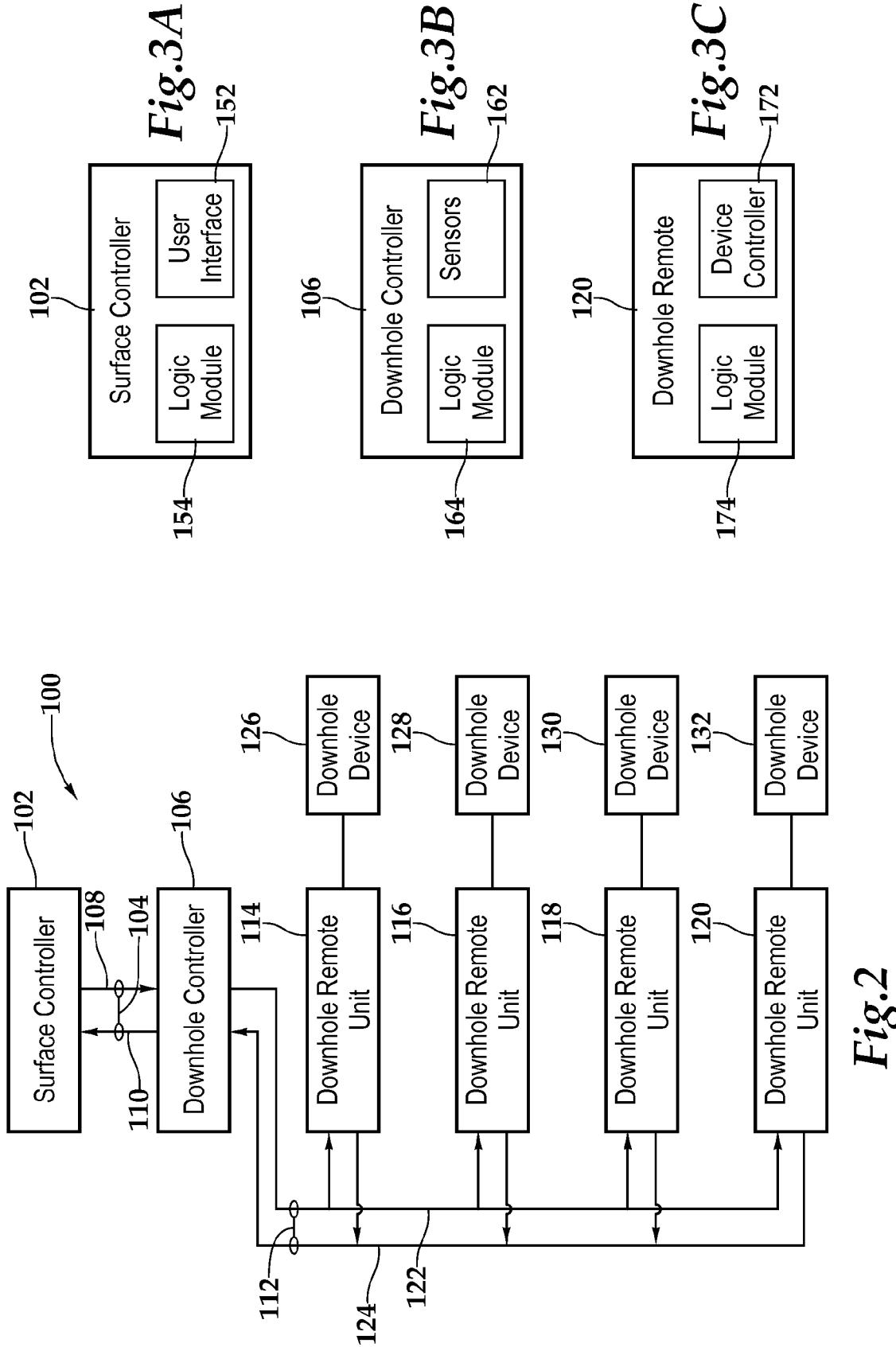
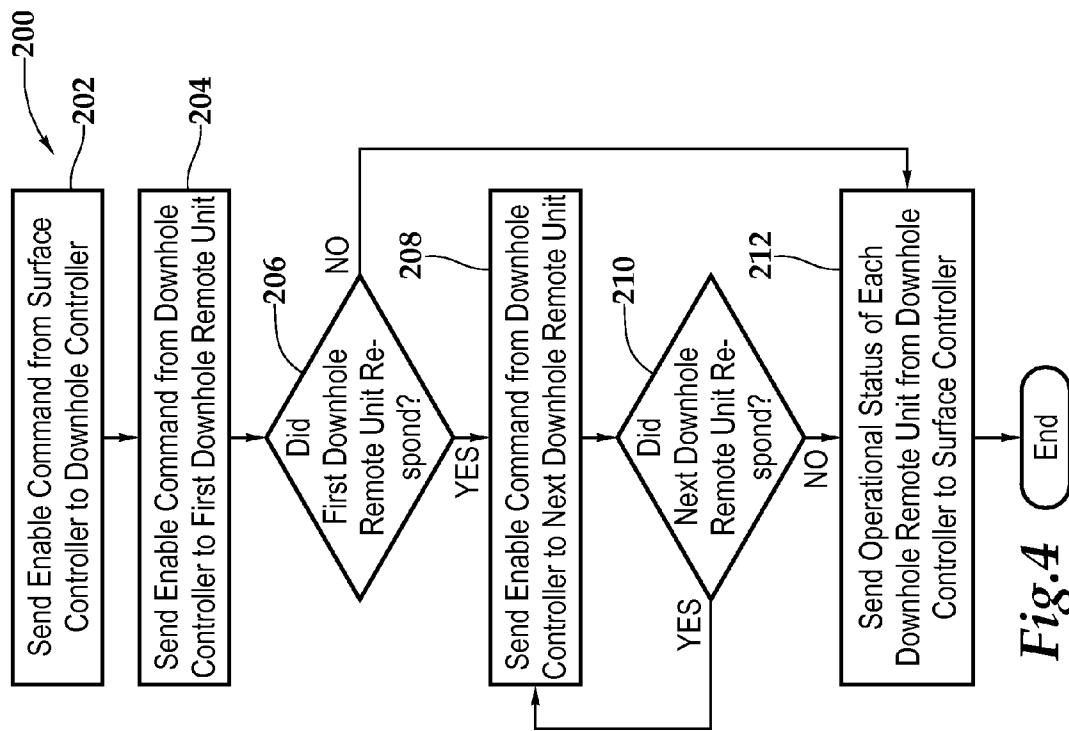
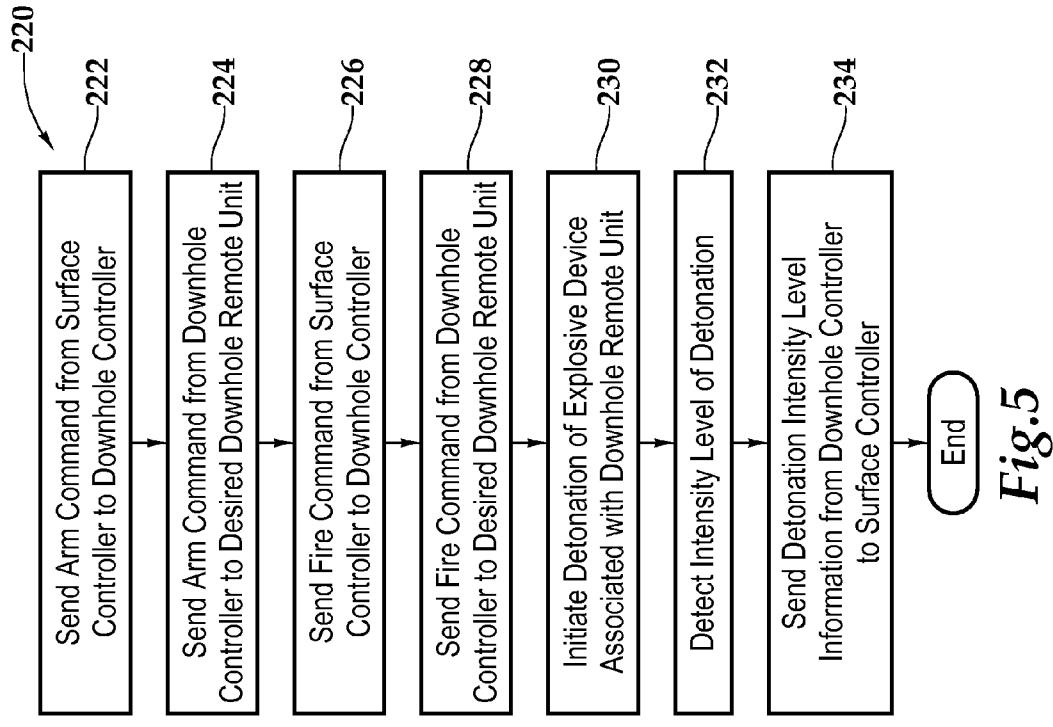


Fig.1B





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