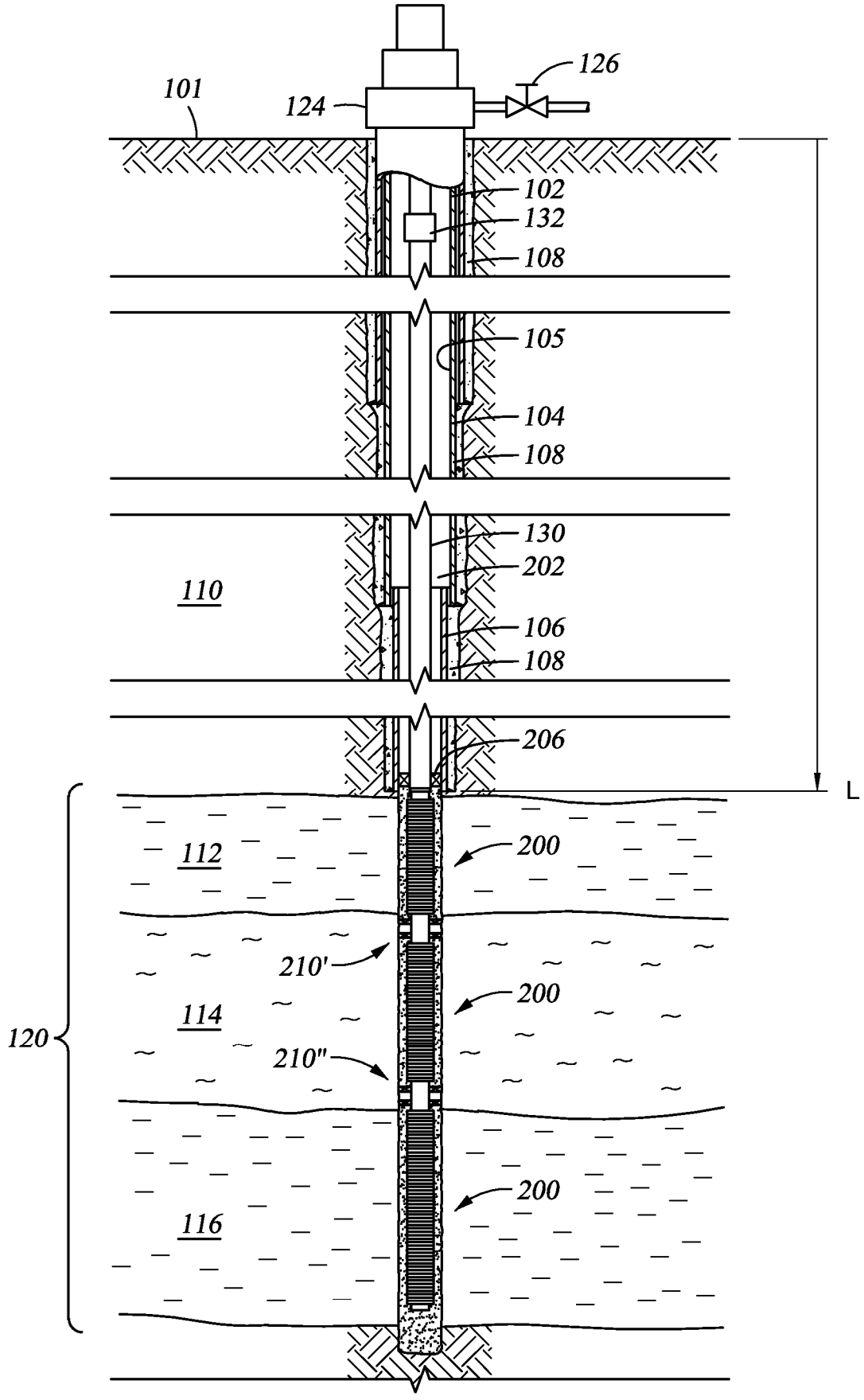

101
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Fig. 1

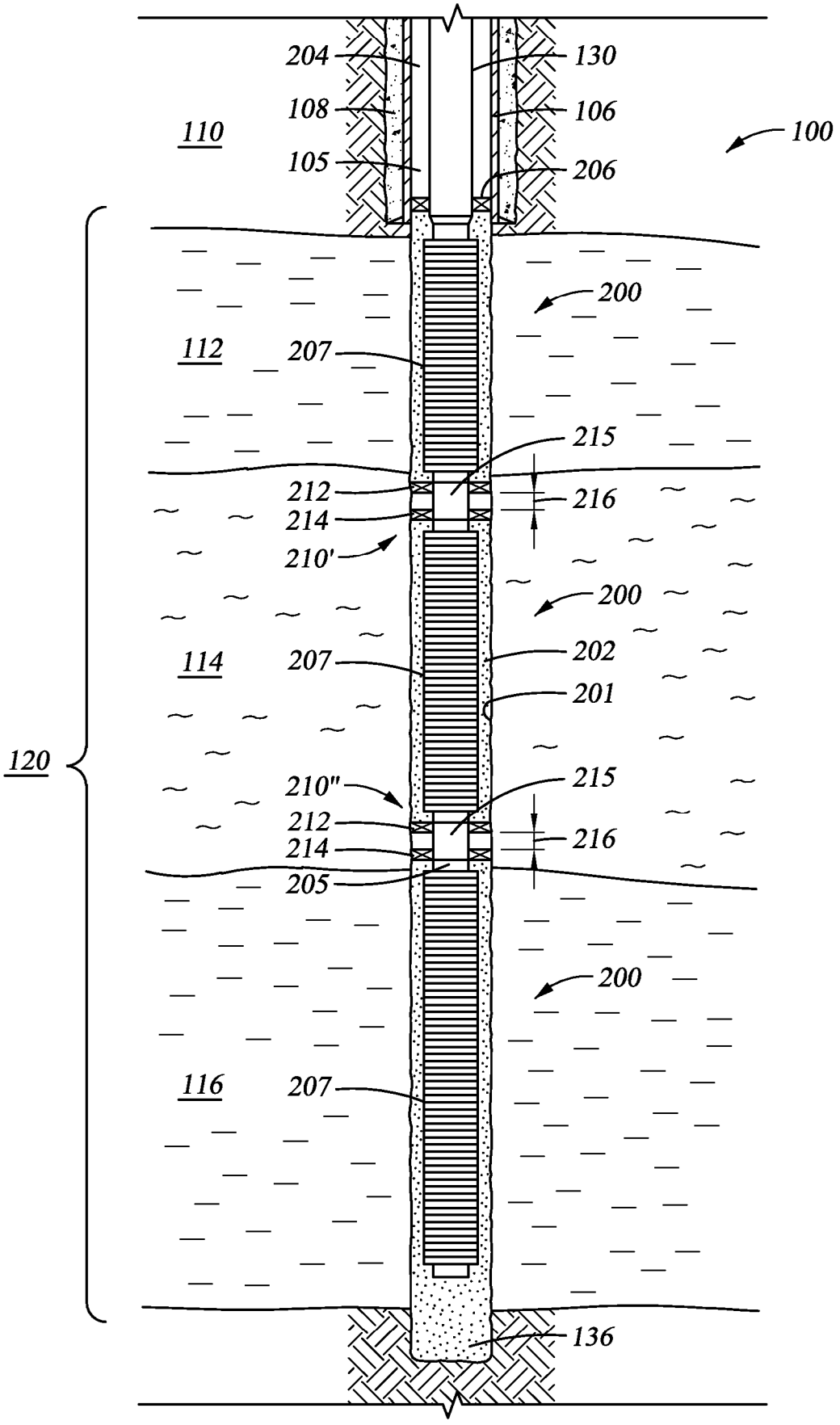

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Fig. 2

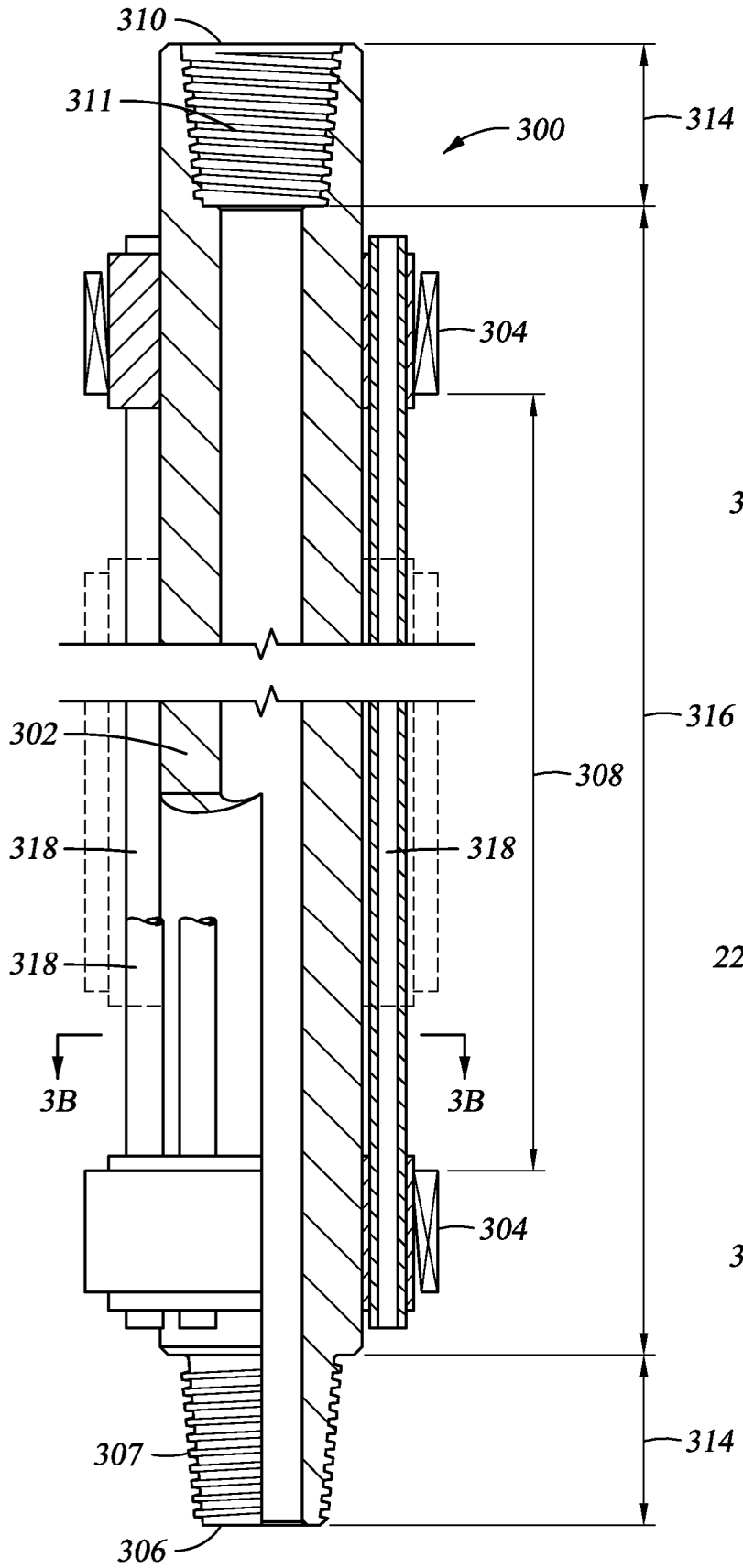


Fig. 3A

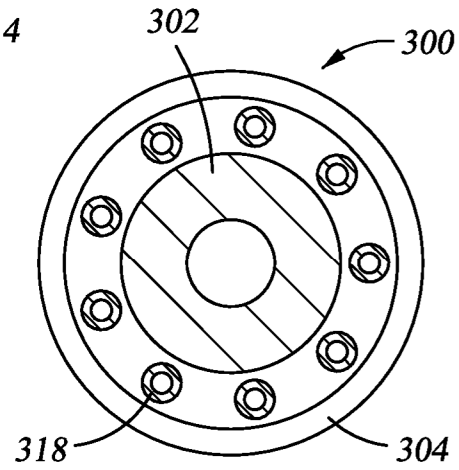


Fig. 3B

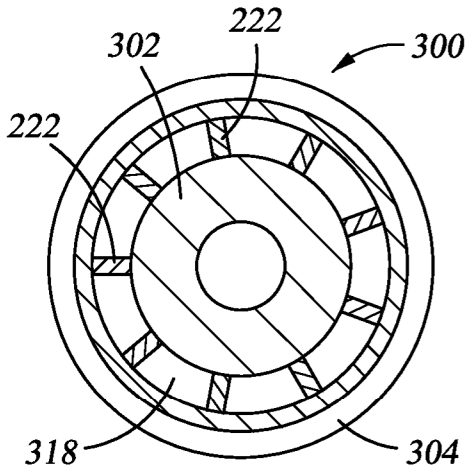


Fig. 3C

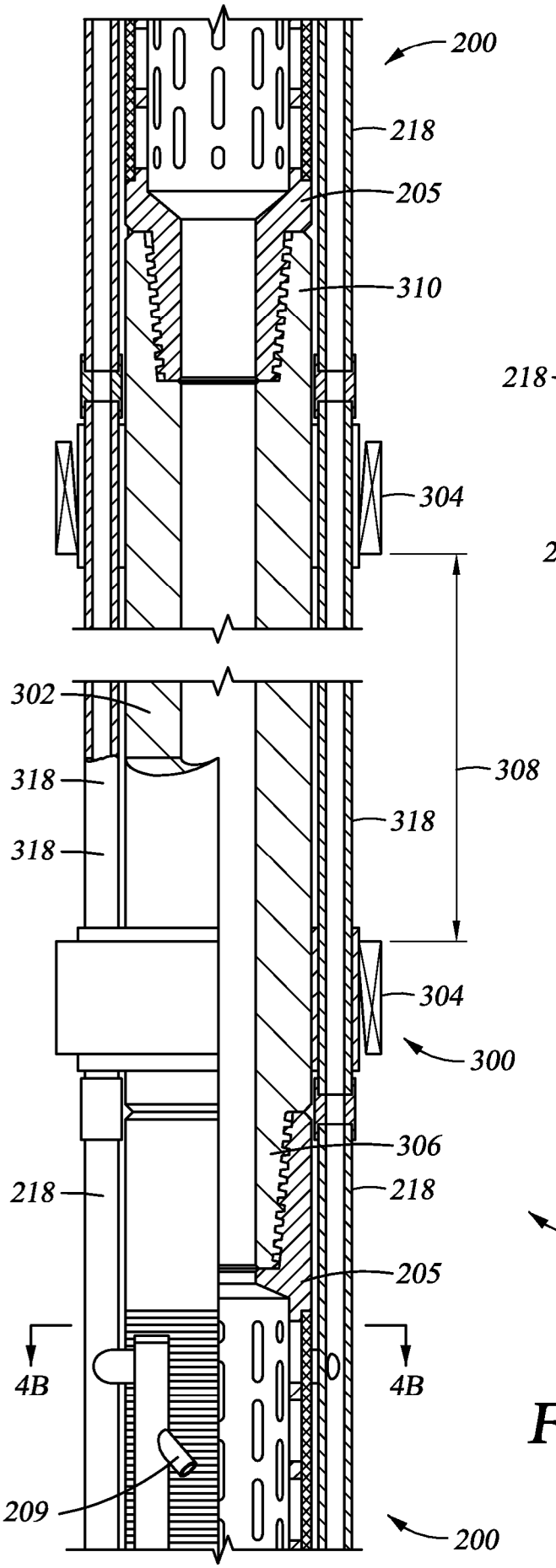

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Fig. 4A

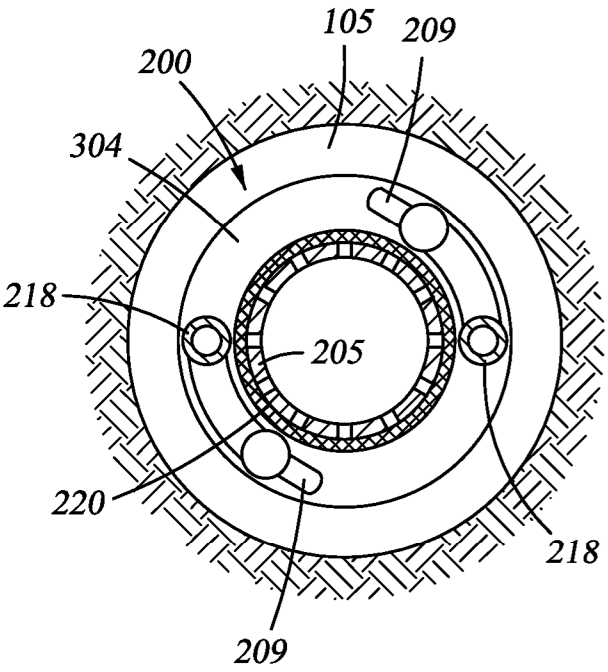

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Fig. 4B

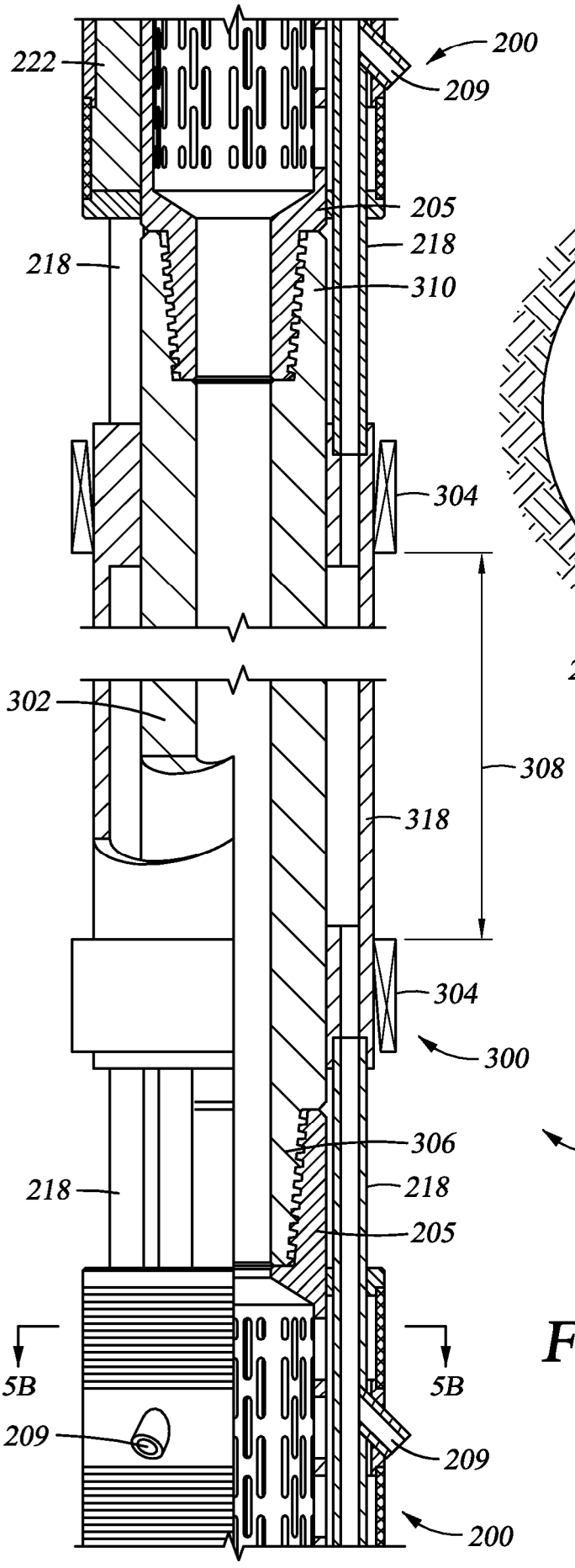

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Fig. 5A

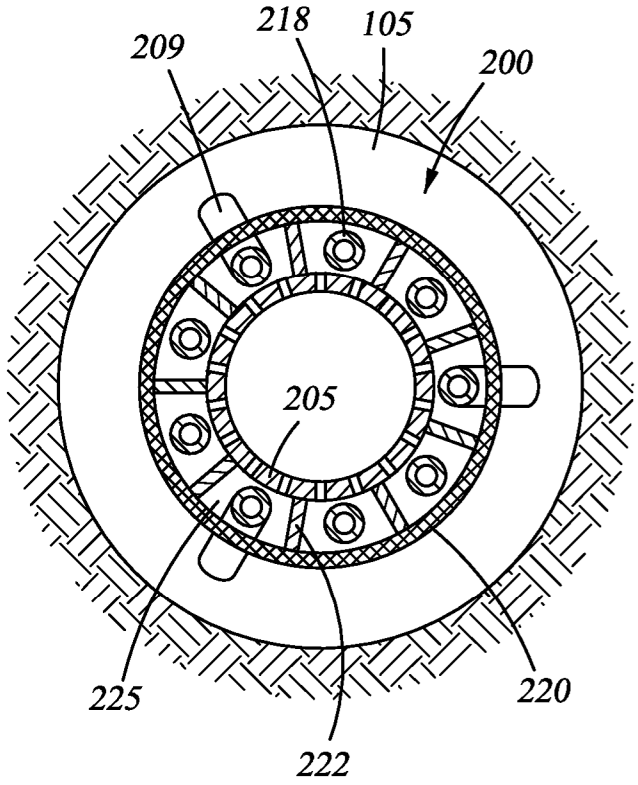

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Fig. 5B

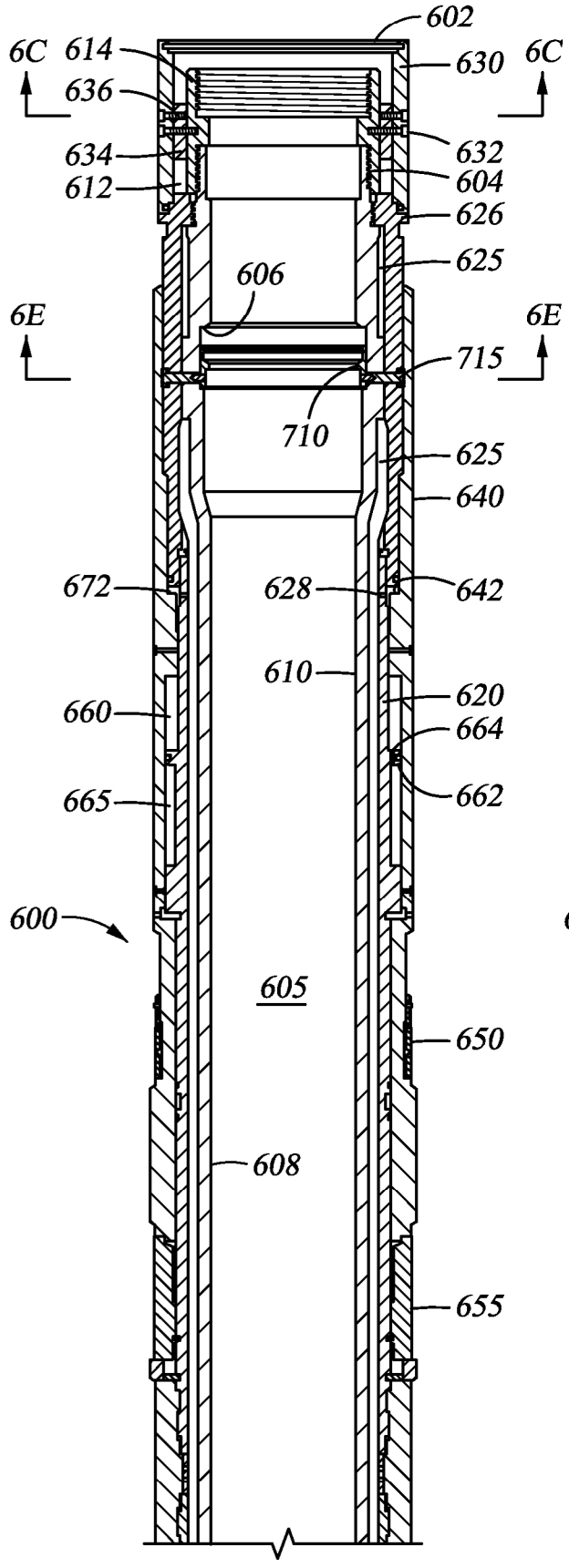

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Fig. 6A

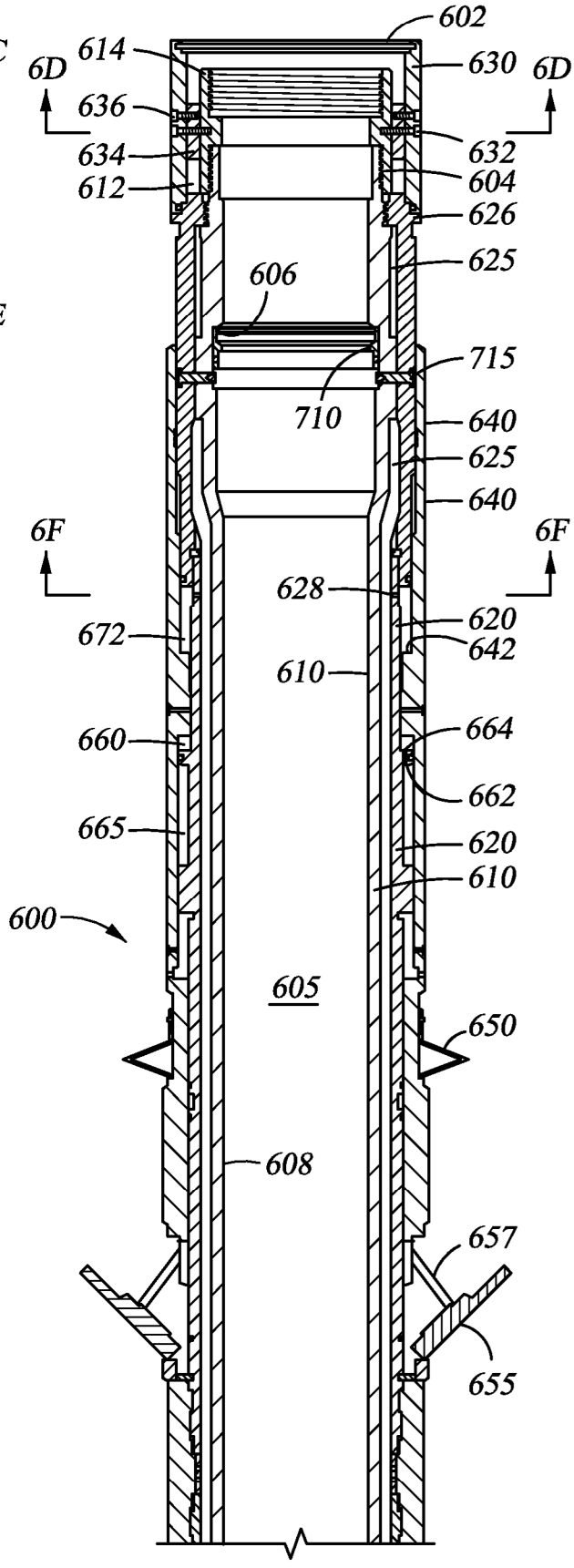

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Fig. 6B

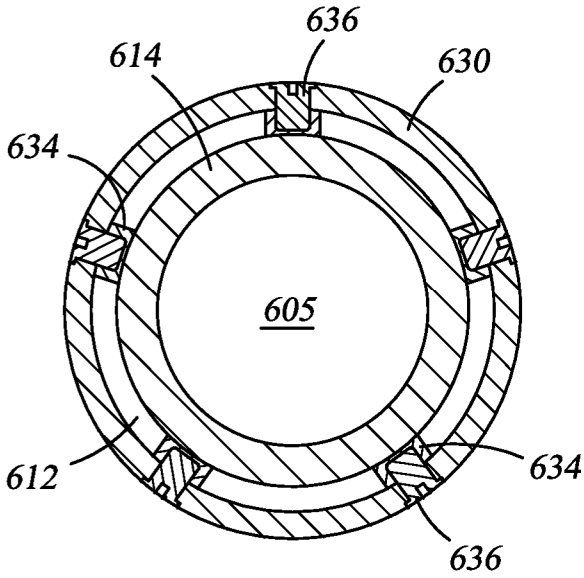


Fig. 6C

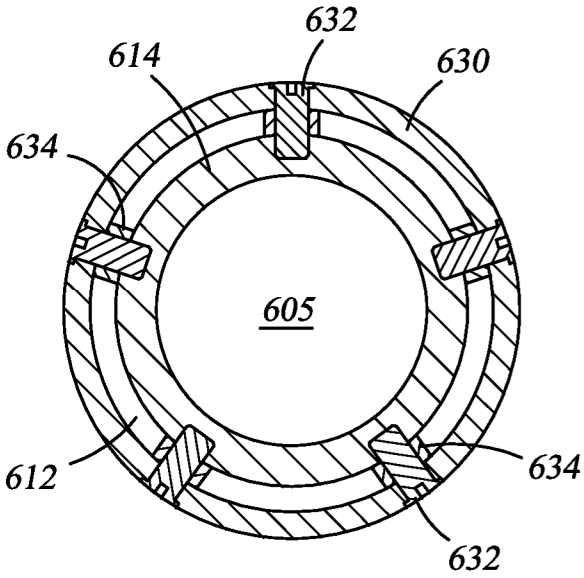


Fig. 6D

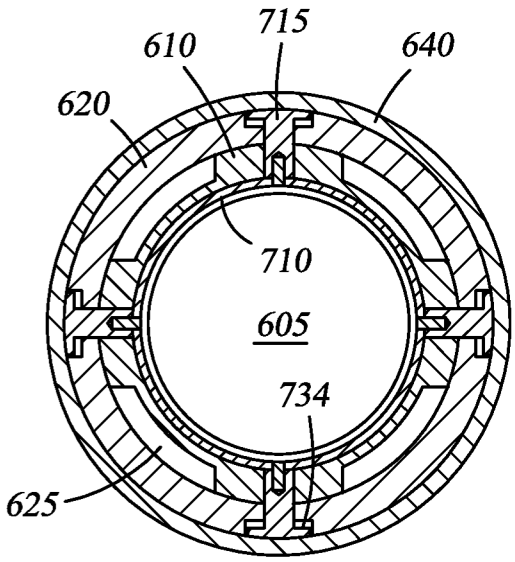


Fig. 6E

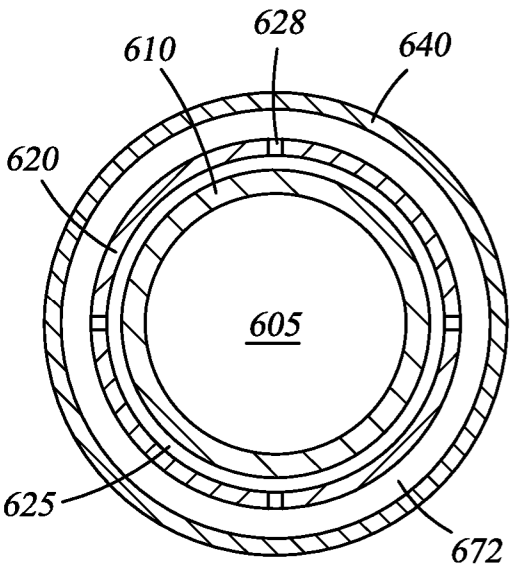


Fig. 6F

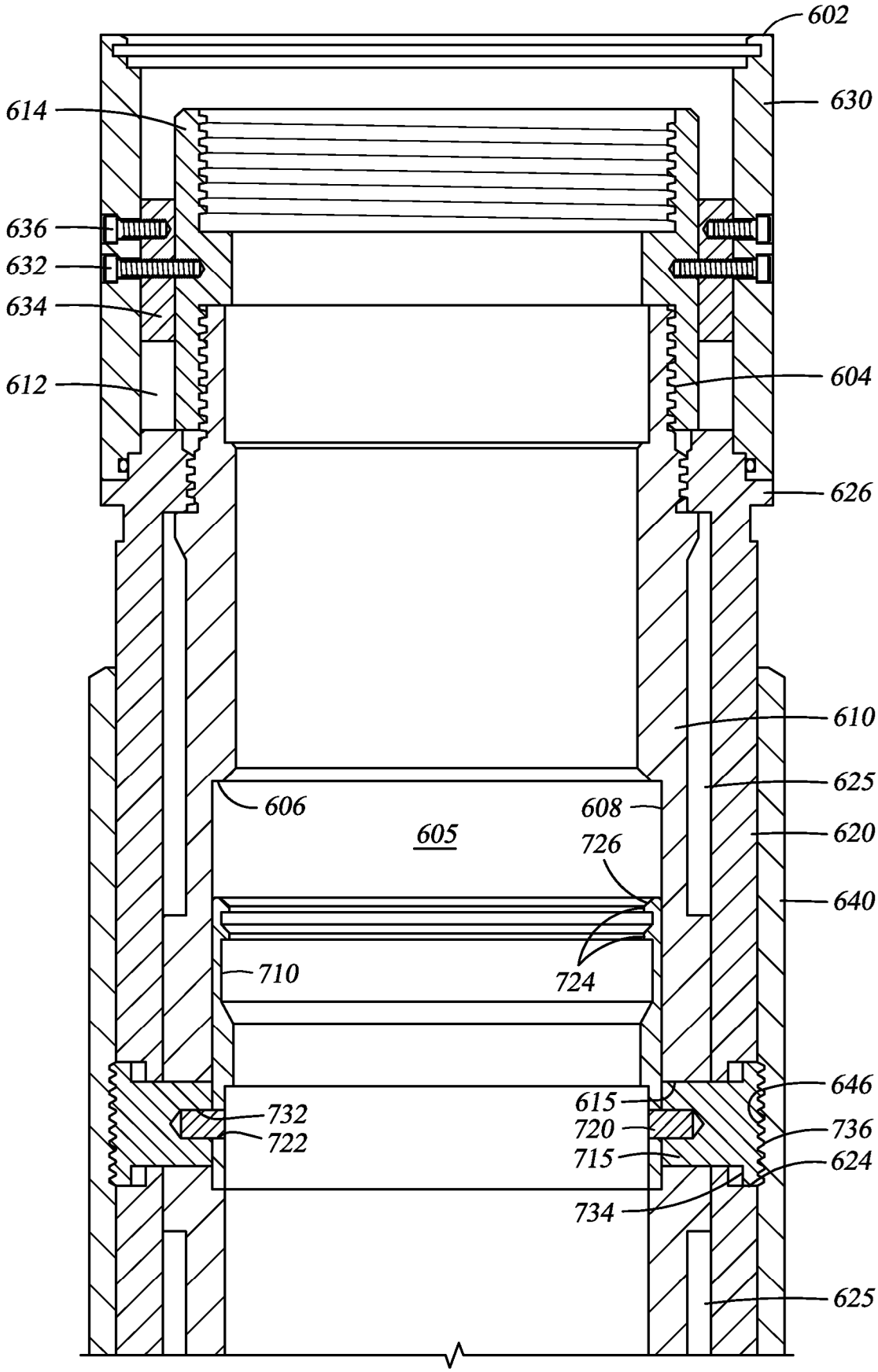

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Fig. 7A

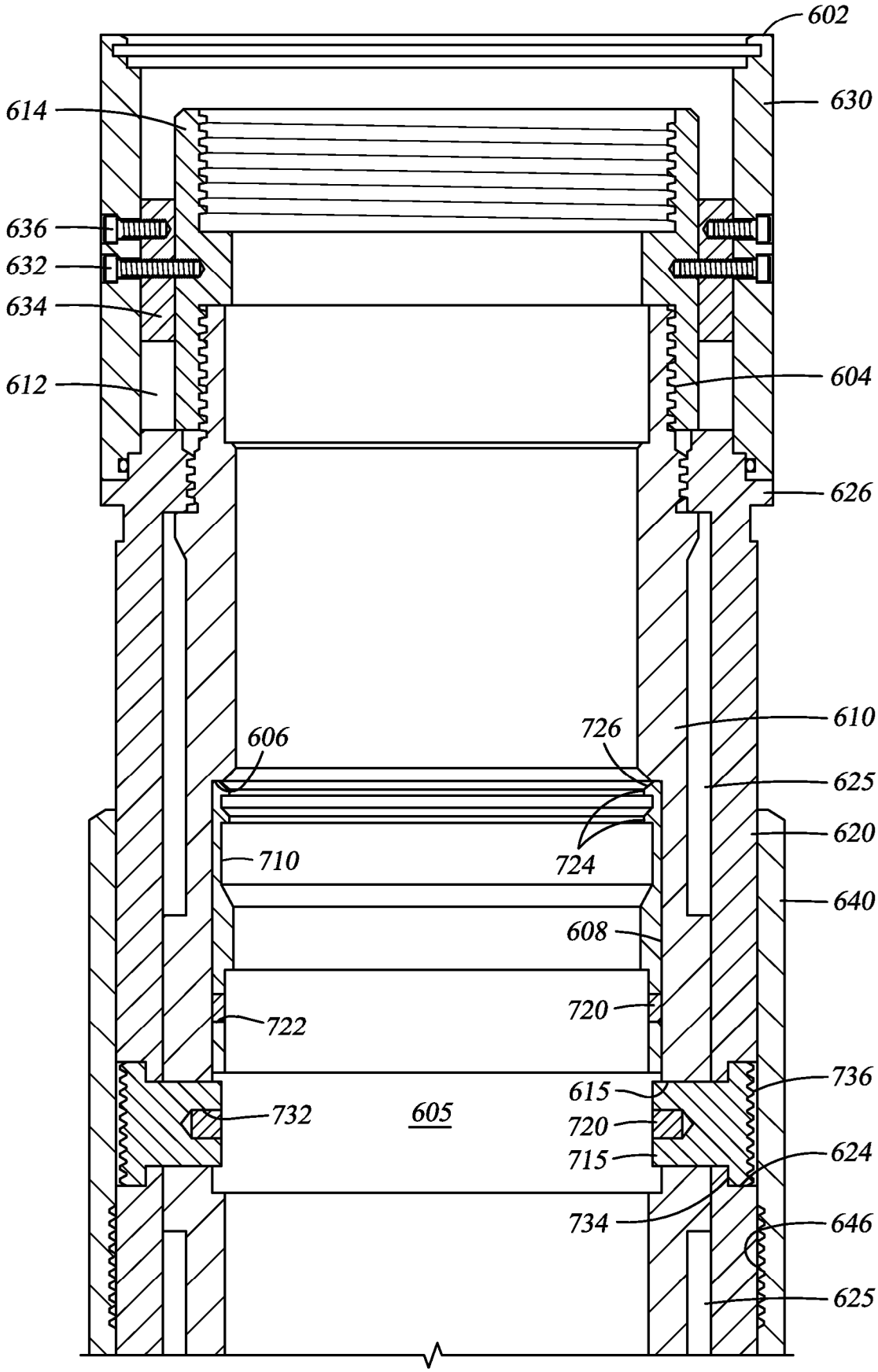

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Fig. 7B

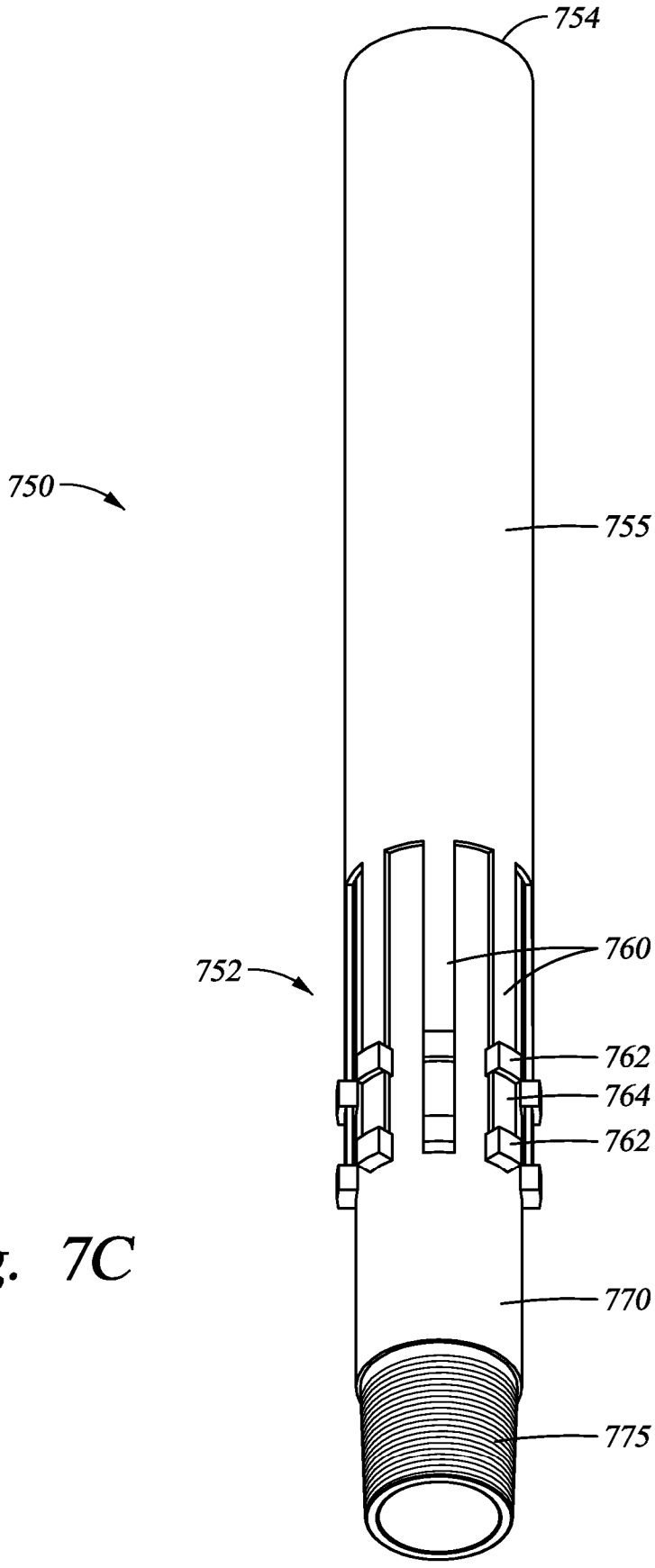


Fig. 7C

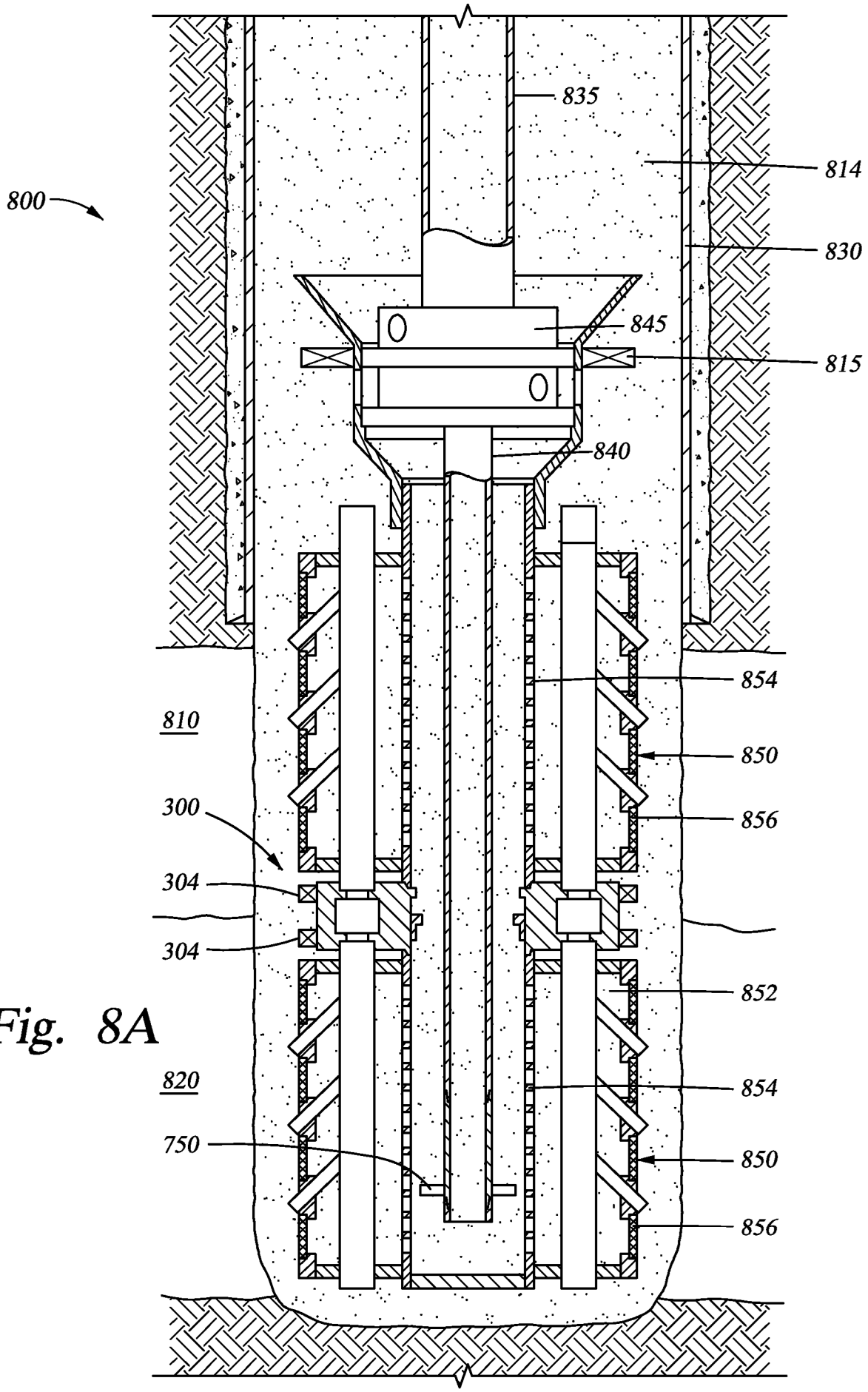

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Fig. 8A

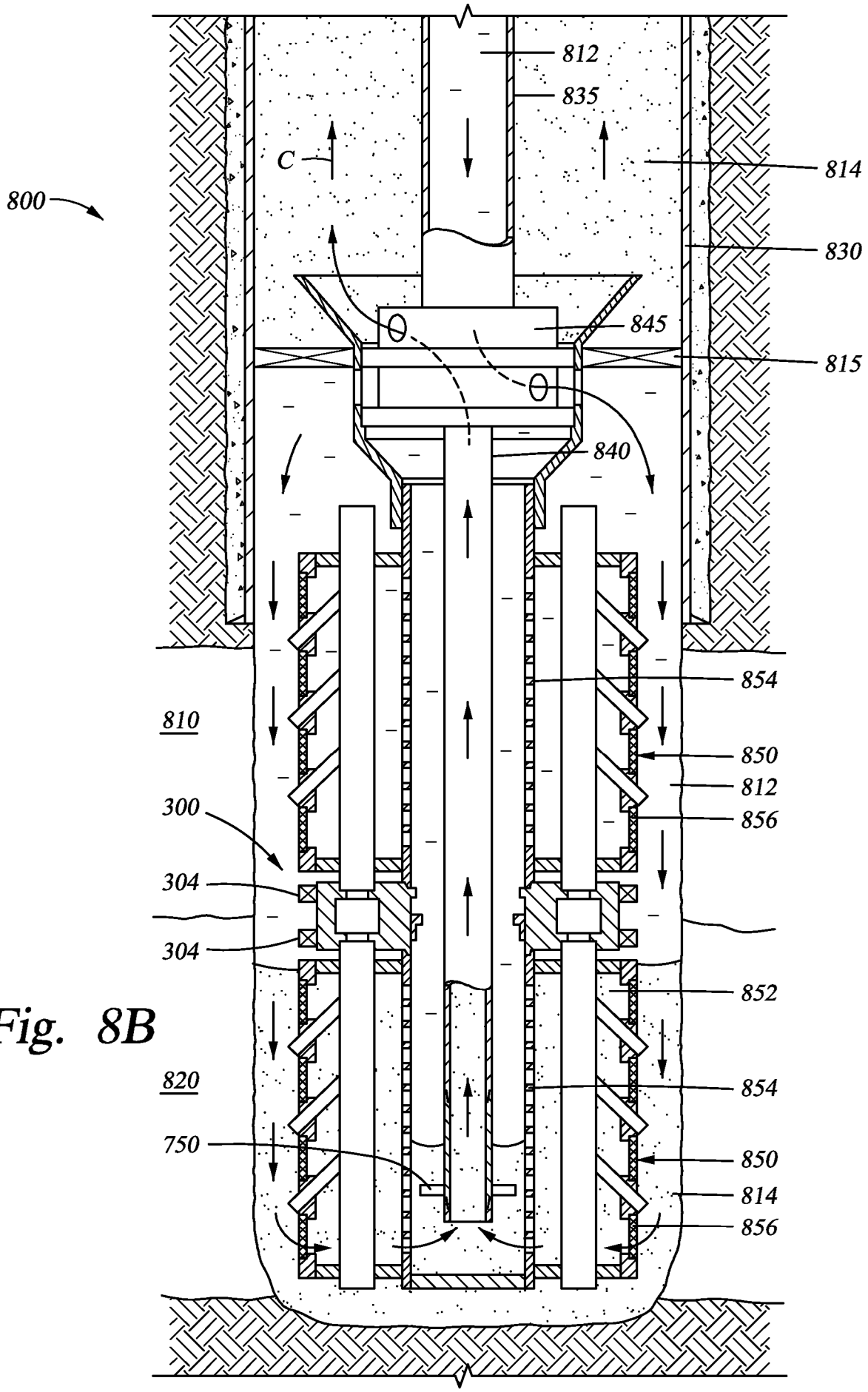

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Fig. 8B

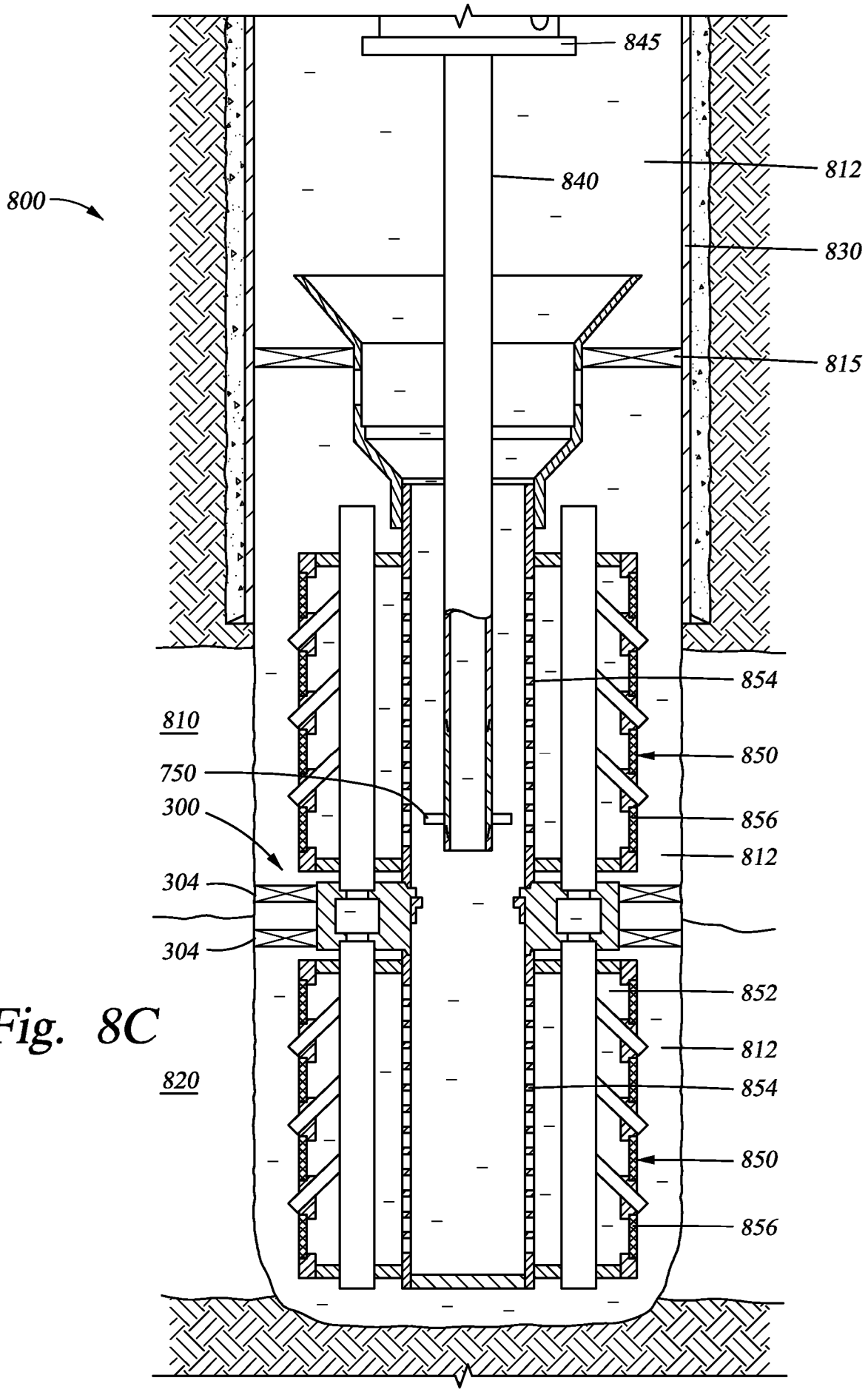

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Fig. 8C

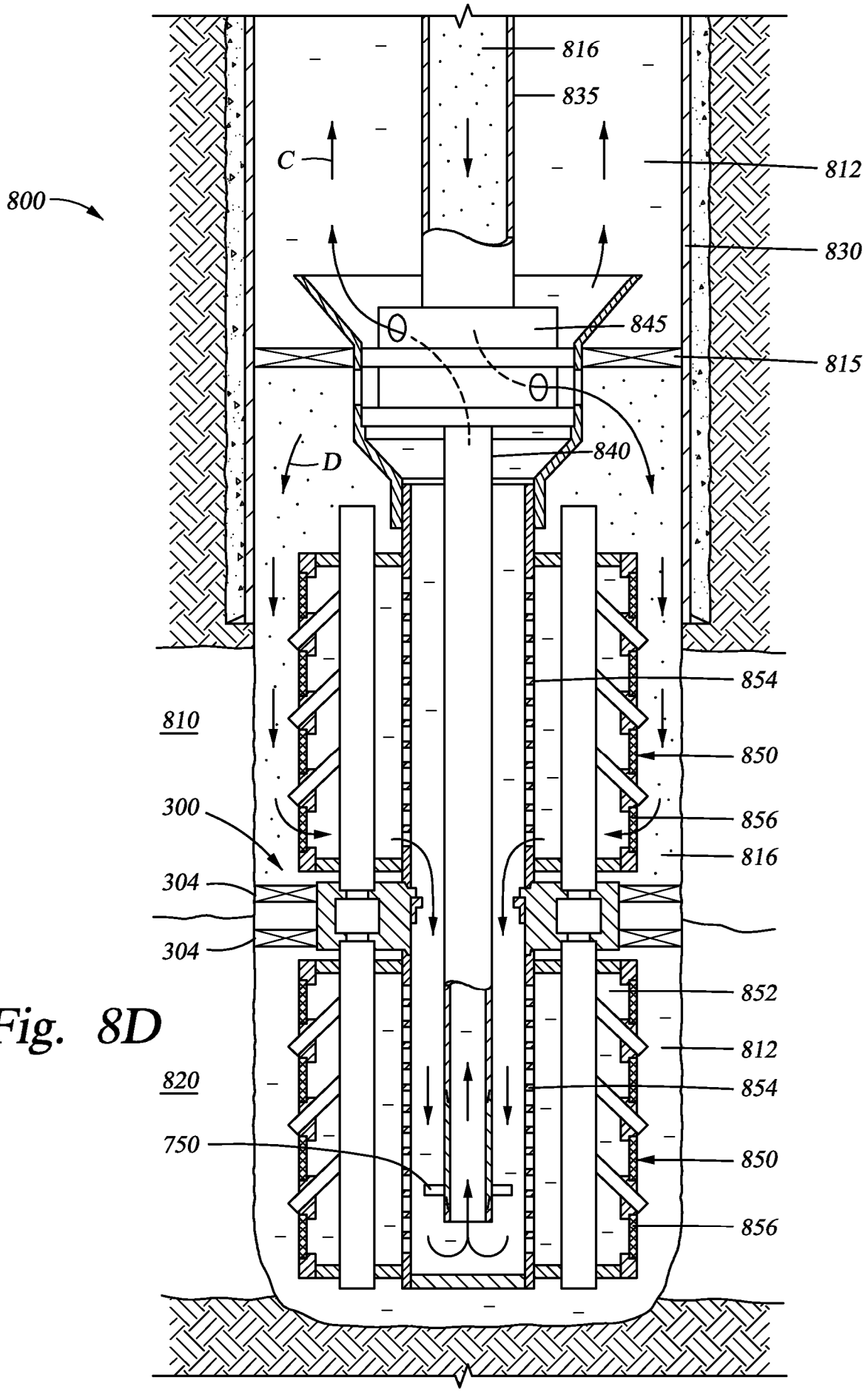

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Fig. 8D

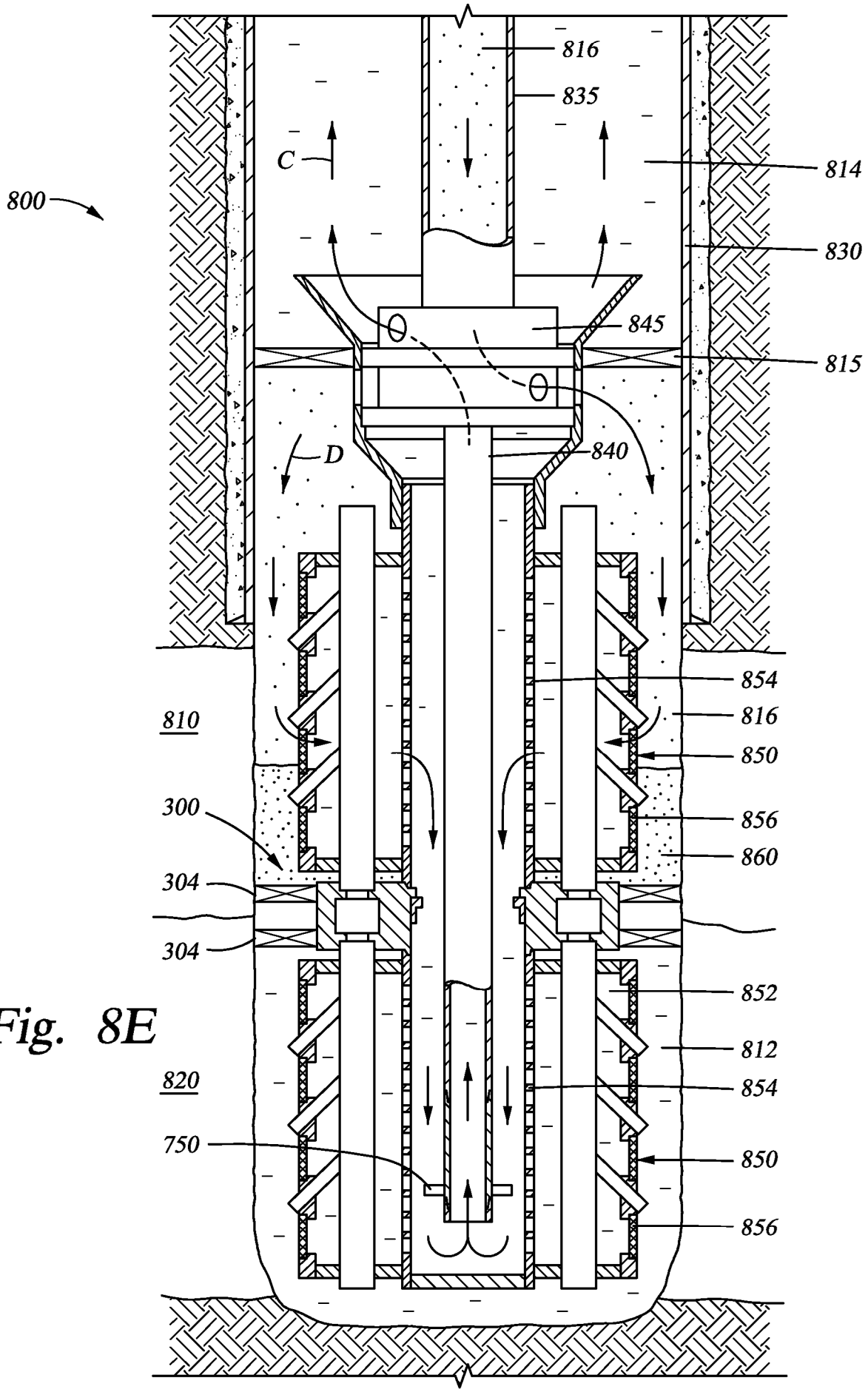

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Fig. 8E

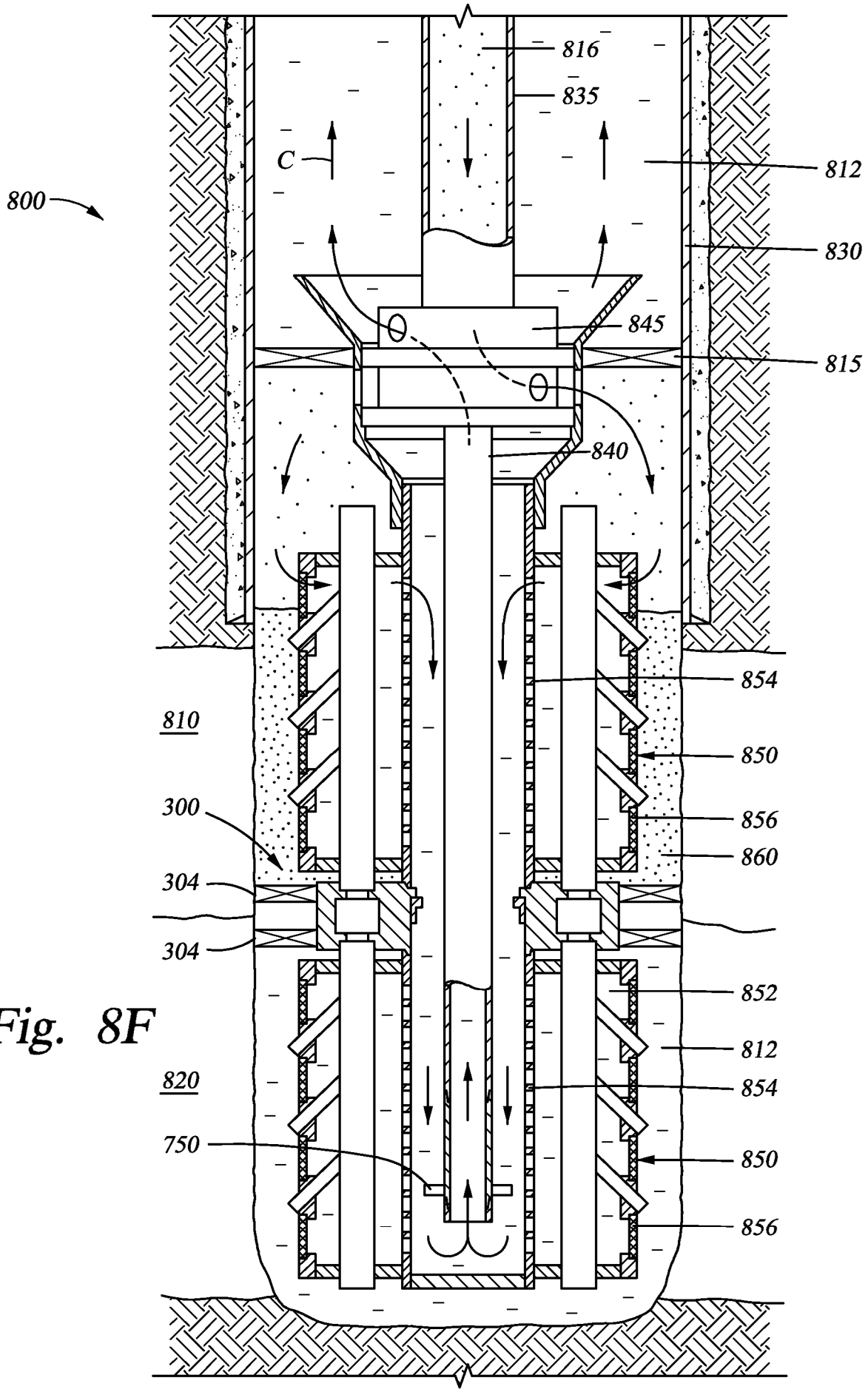

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Fig. 8F

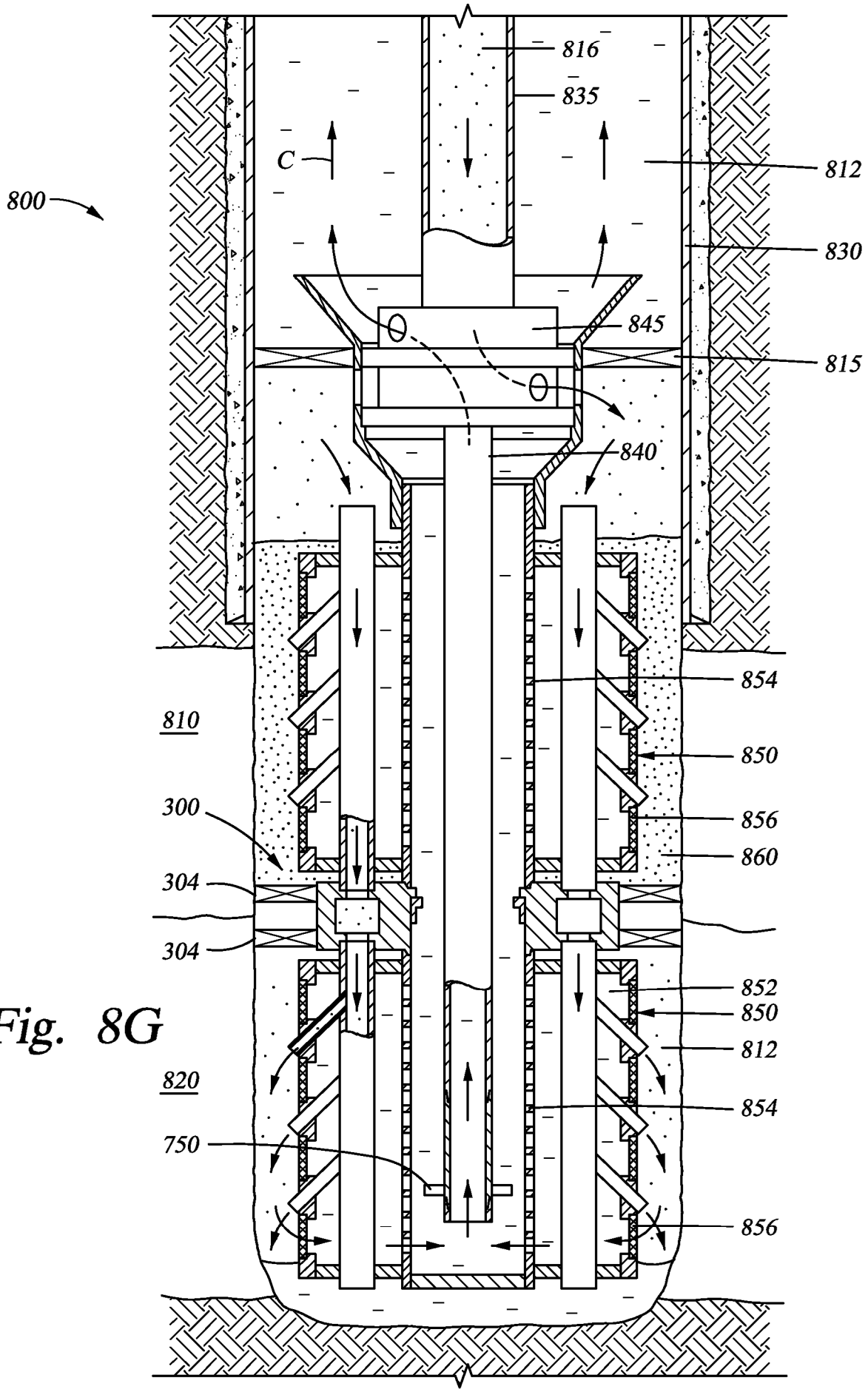

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Fig. 8G

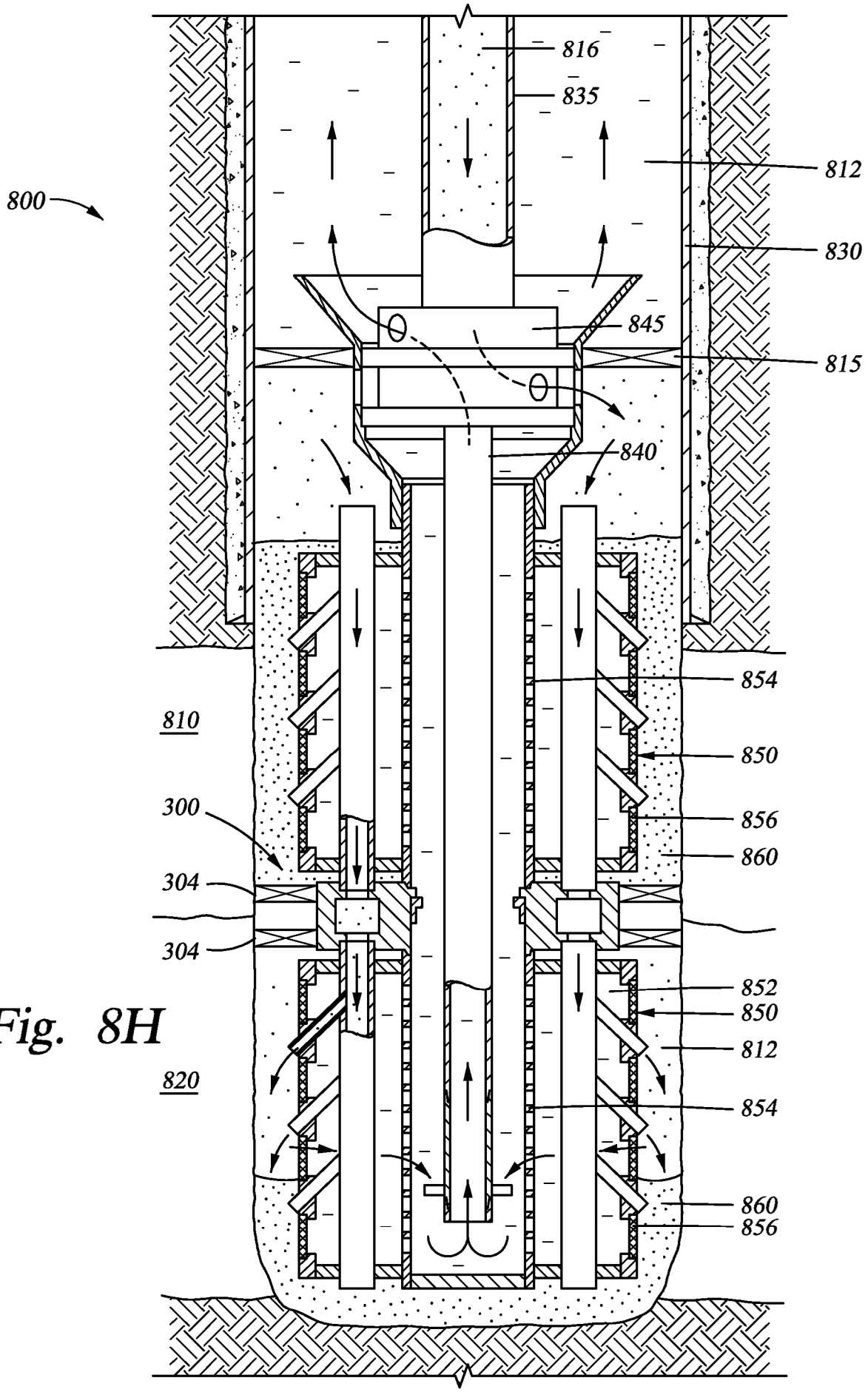

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Fig. 8H

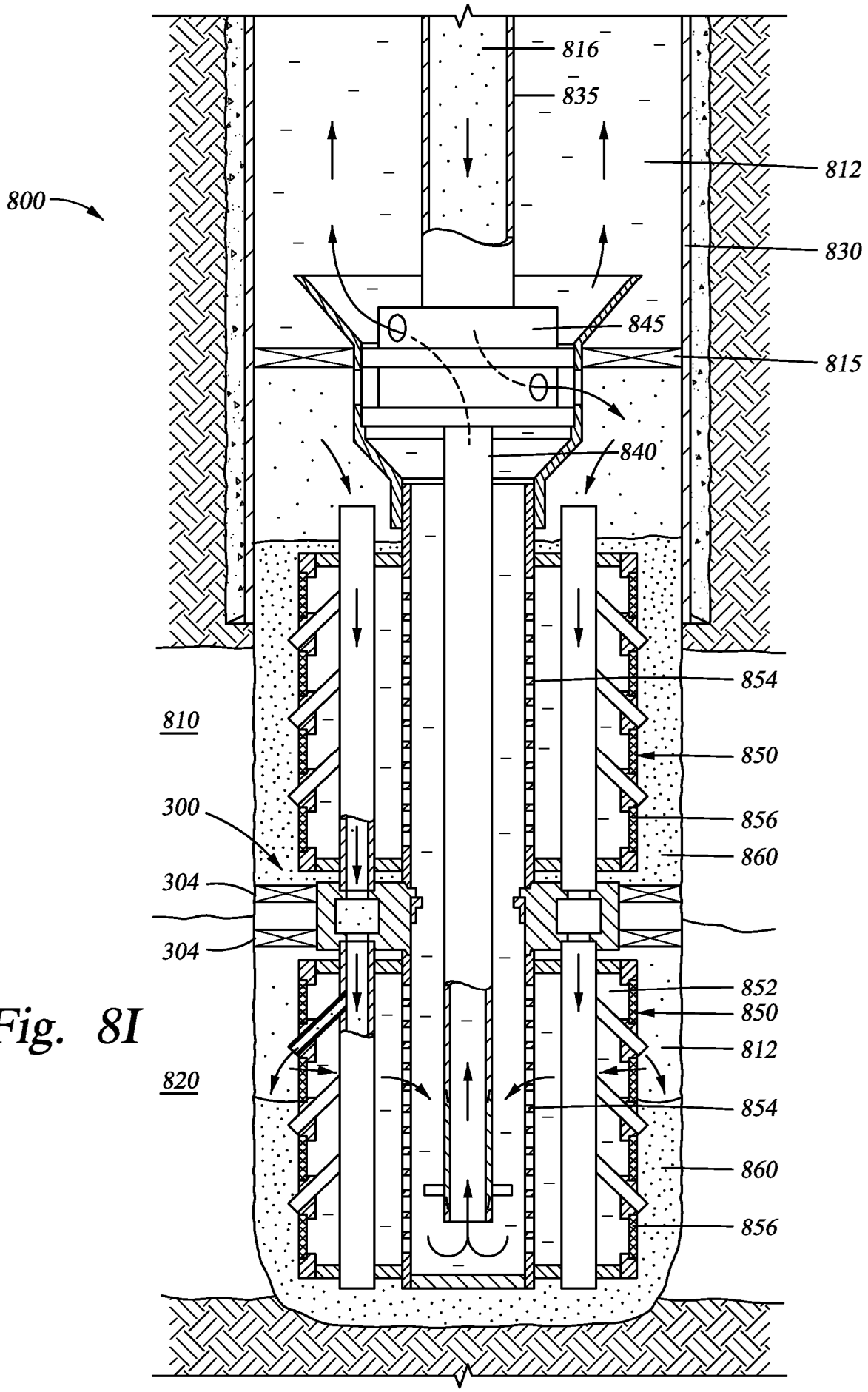

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Fig. 8I

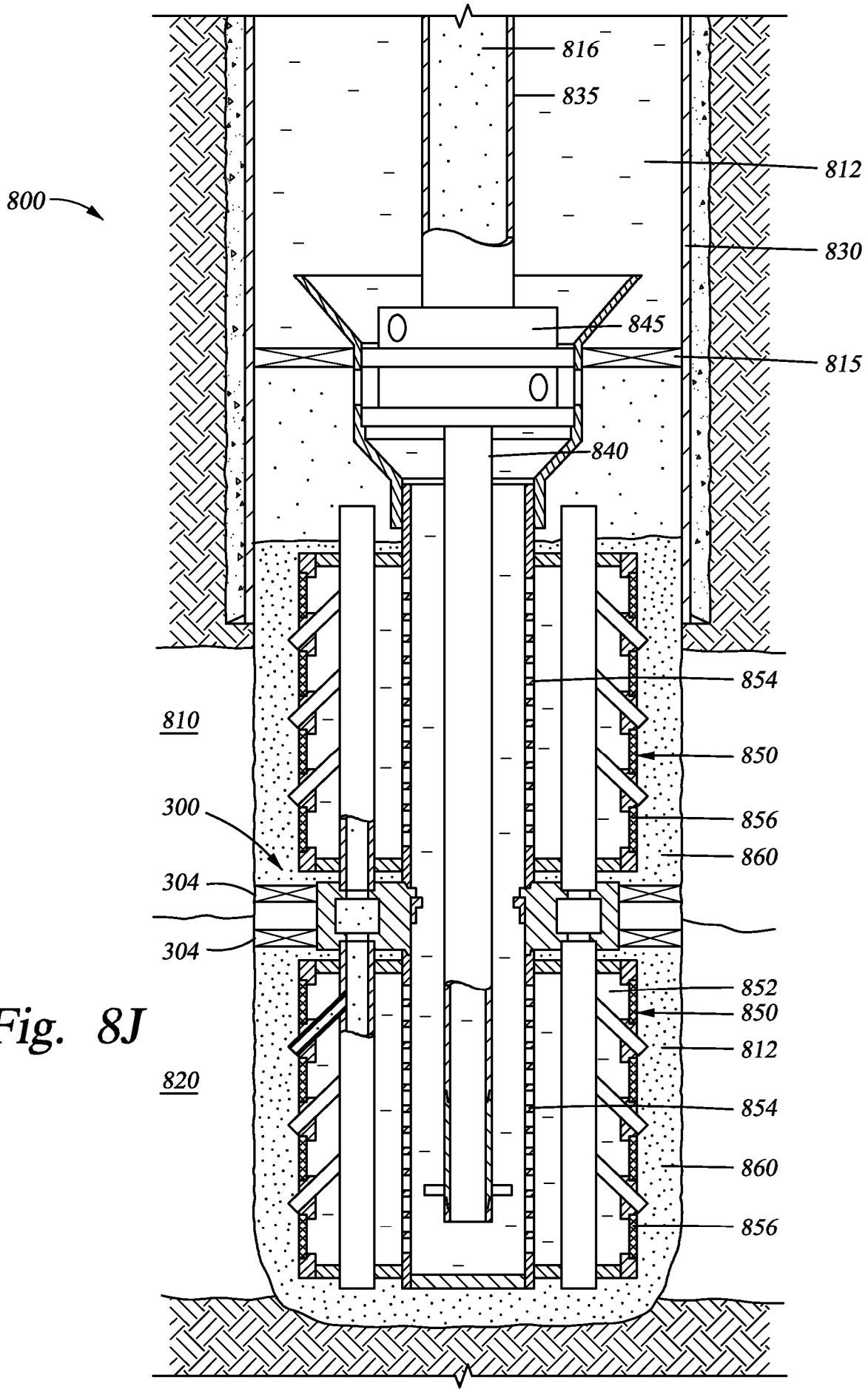

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Fig. 8J

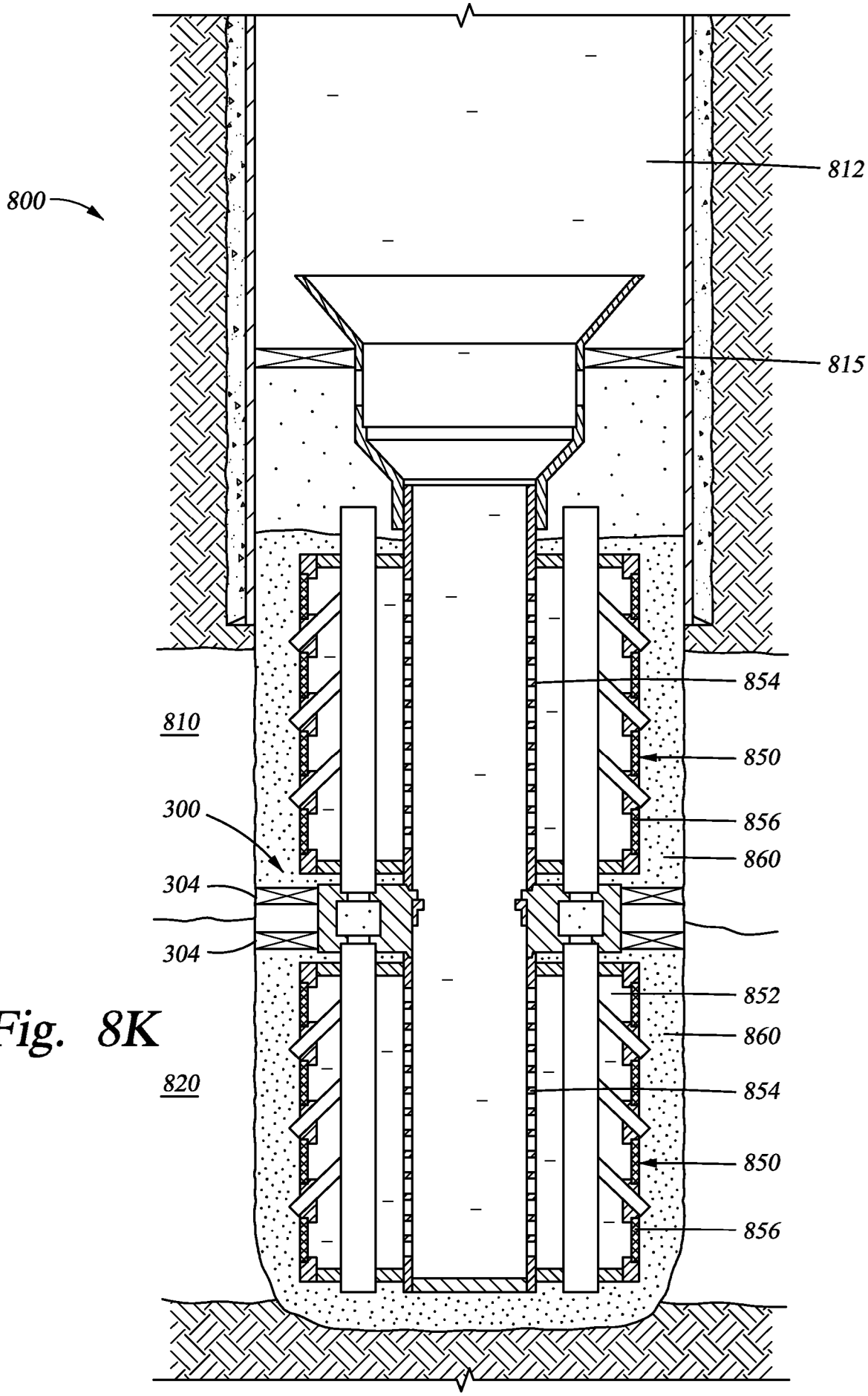

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Fig. 8K

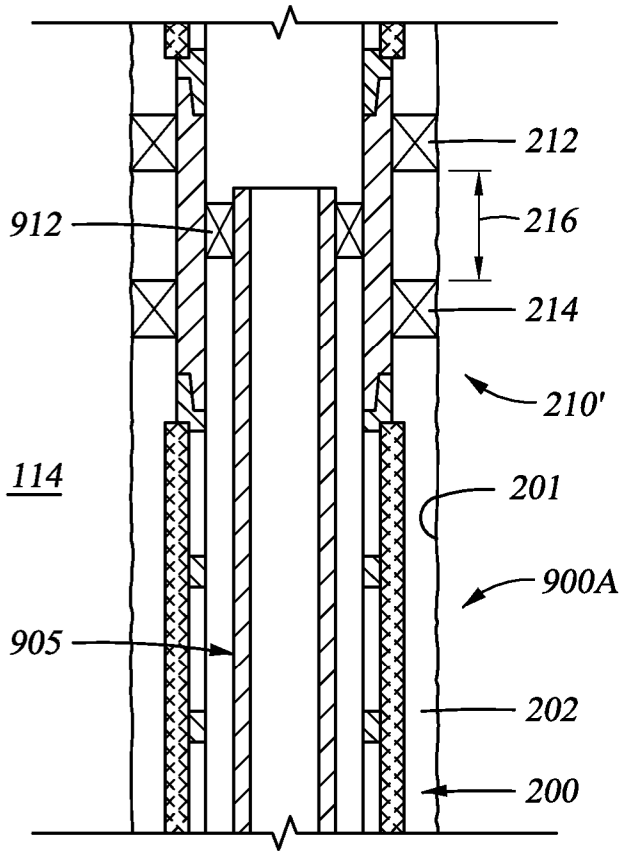
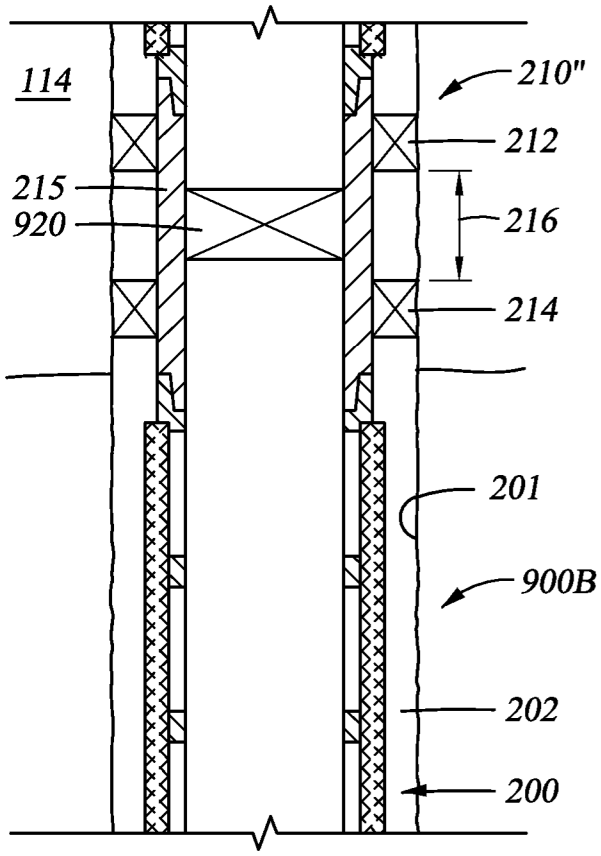

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912
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210'
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900A
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Fig. 9A


114
210"
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900B
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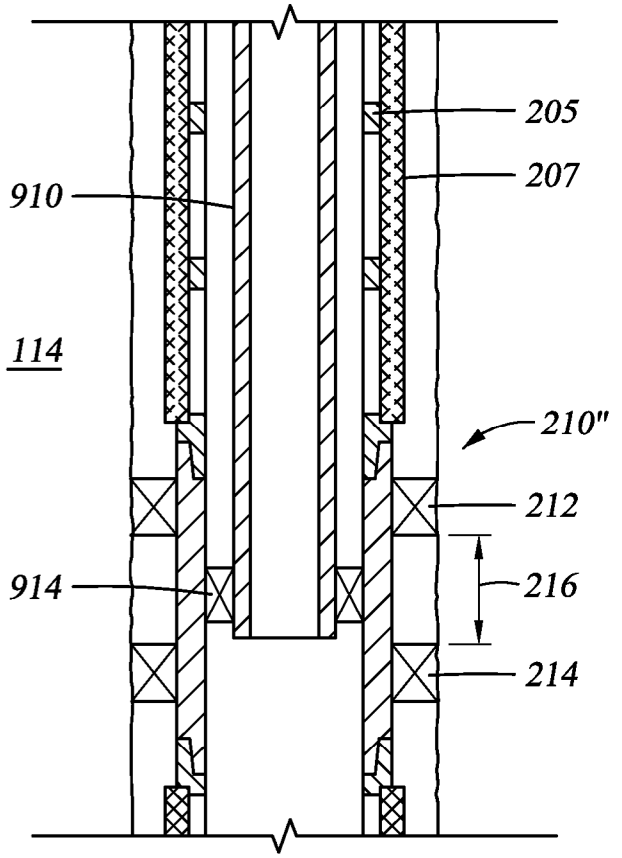
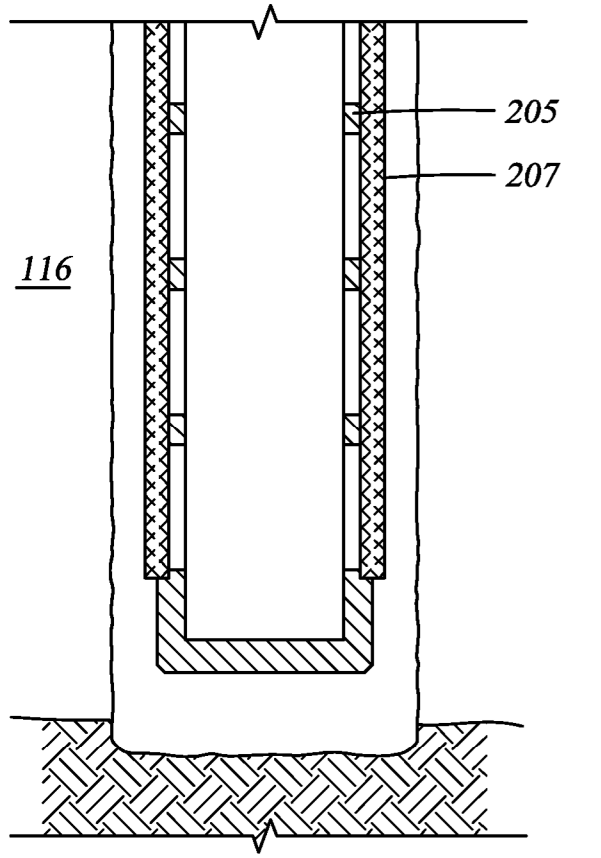

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Fig. 9B


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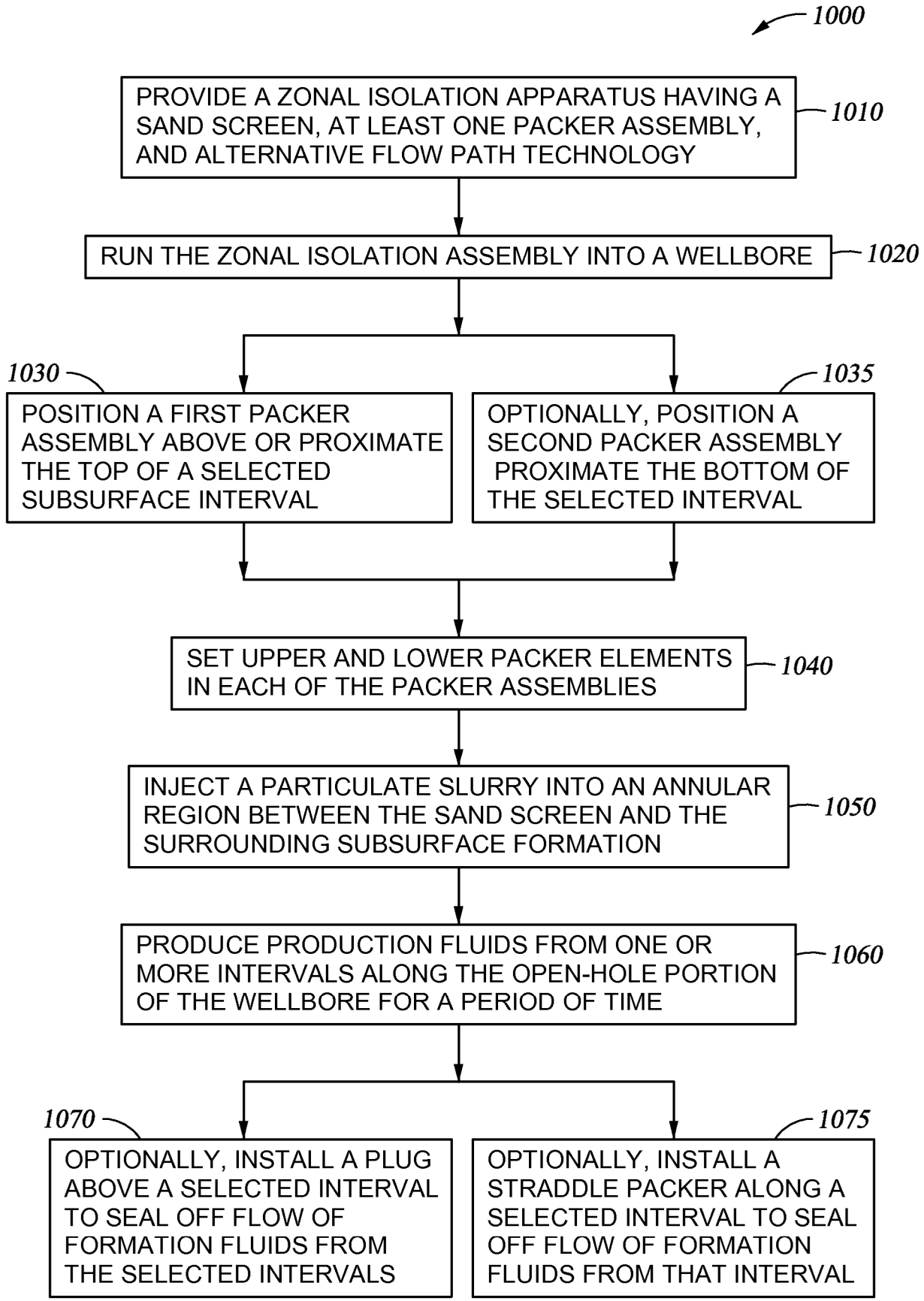

1000
PROVIDE A ZONAL ISOLATION APPARATUS HAVING A SAND SCREEN, AT LEAST ONE PACKER ASSEMBLY, AND ALTERNATIVE FLOW PATH TECHNOLOGY
1010
RUN THE ZONAL ISOLATION ASSEMBLY INTO A WELLBORE
1020
1030
POSITION A FIRST PACKER ASSEMBLY ABOVE OR PROXIMATE THE TOP OF A SELECTED SUBSURFACE INTERVAL
1035
OPTIONALLY, POSITION A SECOND PACKER ASSEMBLY PROXIMATE THE BOTTOM OF THE SELECTED INTERVAL
SET UPPER AND LOWER PACKER ELEMENTS IN EACH OF THE PACKER ASSEMBLIES
1040
INJECT A PARTICULATE SLURRY INTO AN ANNULAR REGION BETWEEN THE SAND SCREEN AND THE SURROUNDING SUBSURFACE FORMATION
1050
PRODUCE PRODUCTION FLUIDS FROM ONE OR MORE INTERVALS ALONG THE OPEN-HOLE PORTION OF THE WELLBORE FOR A PERIOD OF TIME
1060
1070
OPTIONALLY, INSTALL A PLUG ABOVE A SELECTED INTERVAL TO SEAL OFF FLOW OF FORMATION FLUIDS FROM THE SELECTED INTERVALS
1075
OPTIONALLY, INSTALL A STRADDLE PACKER ALONG A SELECTED INTERVAL TO SEAL OFF FLOW OF FORMATION FLUIDS FROM THAT INTERVAL

Fig. 10

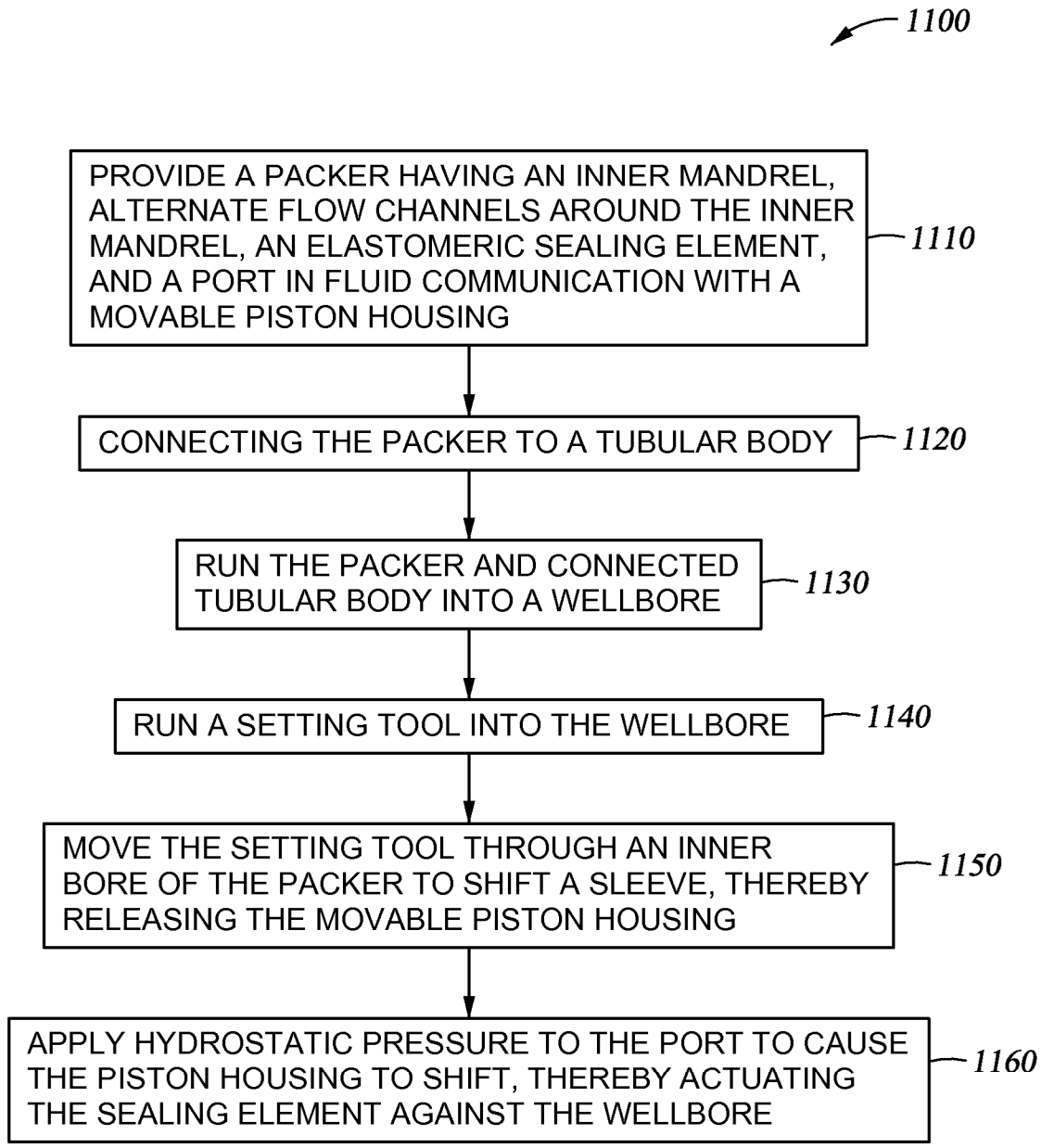

1100
PROVIDE A PACKER HAVING AN INNER MANDREL, ALTERNATE FLOW CHANNELS AROUND THE INNER MANDREL, AN ELASTOMERIC SEALING ELEMENT, AND A PORT IN FLUID COMMUNICATION WITH A MOVABLE PISTON HOUSING
1110
CONNECTING THE PACKER TO A TUBULAR BODY
1120
RUN THE PACKER AND CONNECTED TUBULAR BODY INTO A WELLBORE
1130
RUN A SETTING TOOL INTO THE WELLBORE
1140
MOVE THE SETTING TOOL THROUGH AN INNER BORE OF THE PACKER TO SHIFT A SLEEVE, THEREBY RELEASING THE MOVABLE PISTON HOUSING
1150
APPLY HYDROSTATIC PRESSURE TO THE PORT TO CAUSE THE PISTON HOUSING TO SHIFT, THEREBY ACTUATING THE SEALING ELEMENT AGAINST THE WELLBORE
1160

Fig. 11