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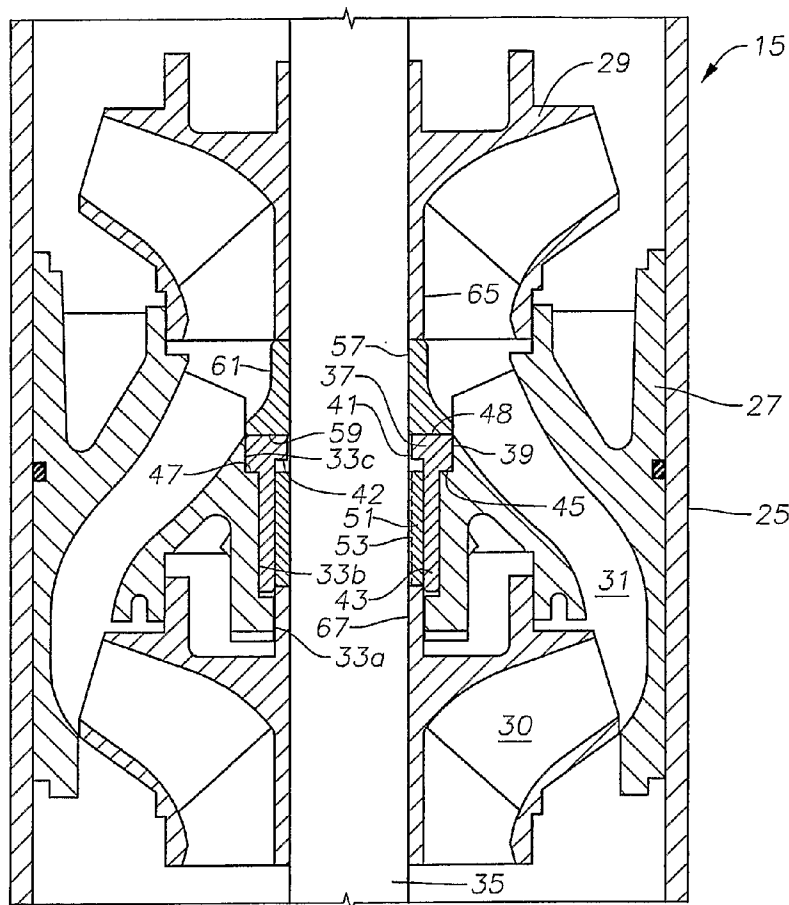
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(54) Title: ABRASION RESISTANT PUMP THRUST BEARING



(57) Abstract: A centrifugal pump (15) has a stationary diffuser (27) with a bore (33a, 33b, 33c). A thrust bearing (37) has a tubular portion that inserts into the bore. The thrust bearing (37) has an external shoulder (45) that contacts a support surface (47) in the bore (33b, 33c) of the diffuser (27) for transmitting downward thrust from an upstream impeller (29) to the diffuser (27). The thrust bearing (37) has an internal shoulder (42) for transmitting upward thrust from a downstream impeller (30) to the diffuser (27).



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