FIG. 1

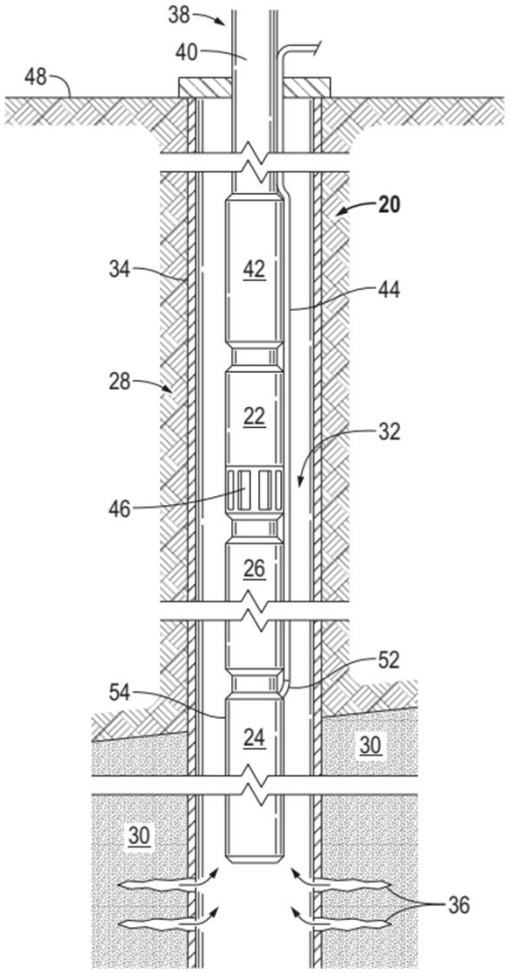
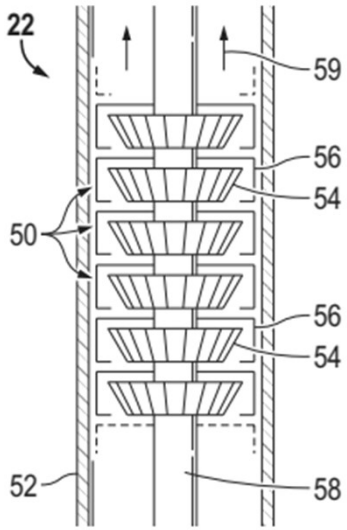

38
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FIG. 2


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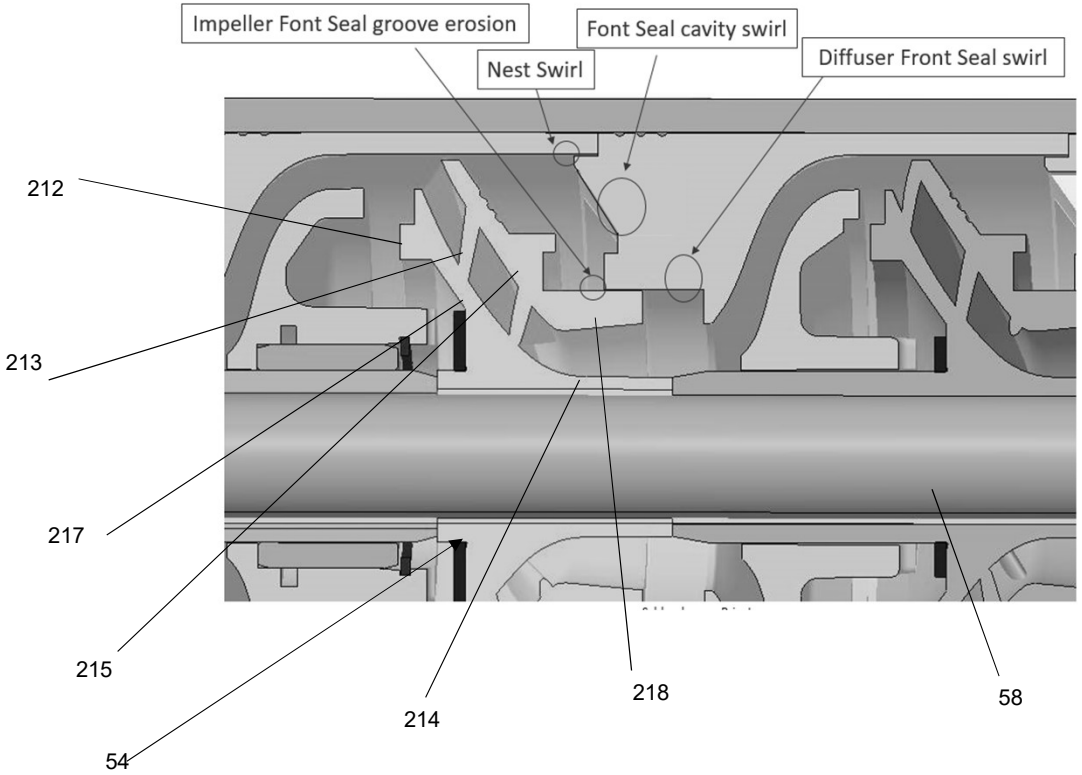

Impeller Font Seal groove erosion
Font Seal cavity swirl
Nest Swirl
Diffuser Front Seal swirl
212
213
217
215
54
214
218
58

Figure 3

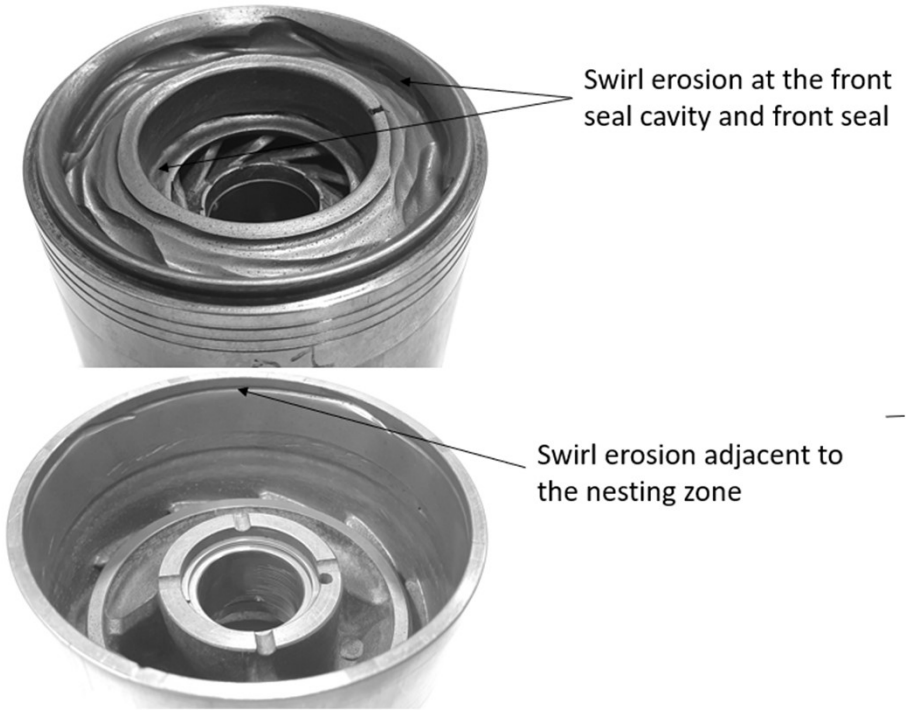

Swirl erosion at the front
seal cavity and front seal
Swirl erosion adjacent to
the nesting zone

Figure 4

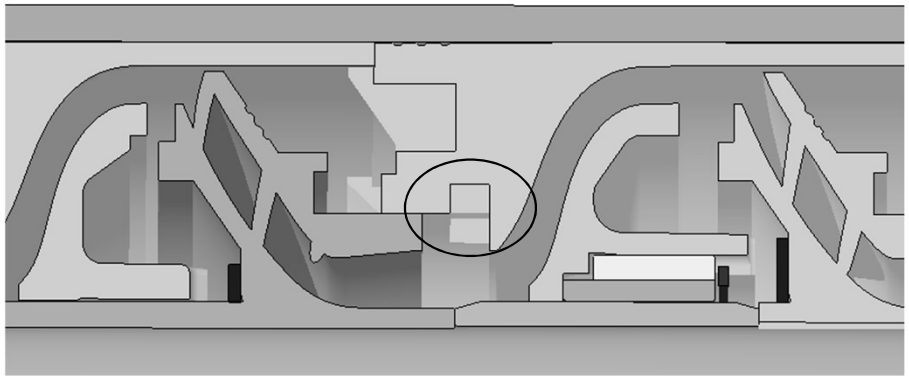


Figure 5

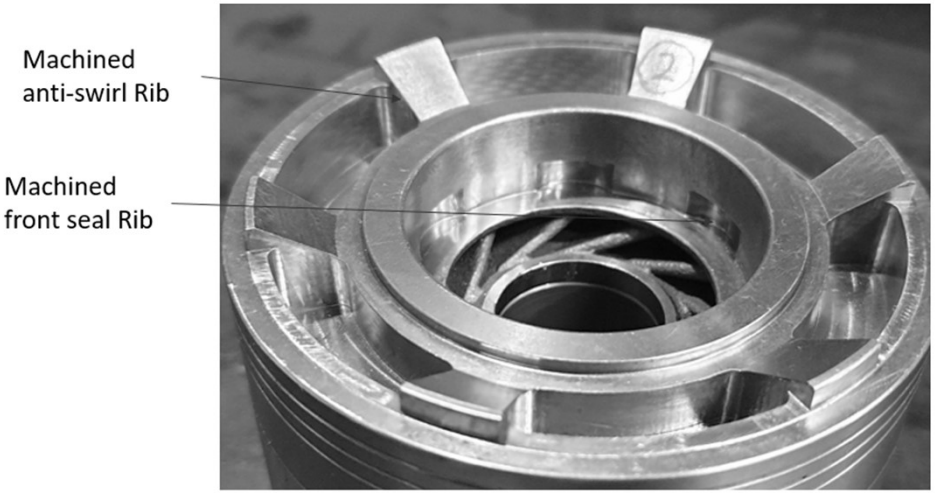


Figure 6

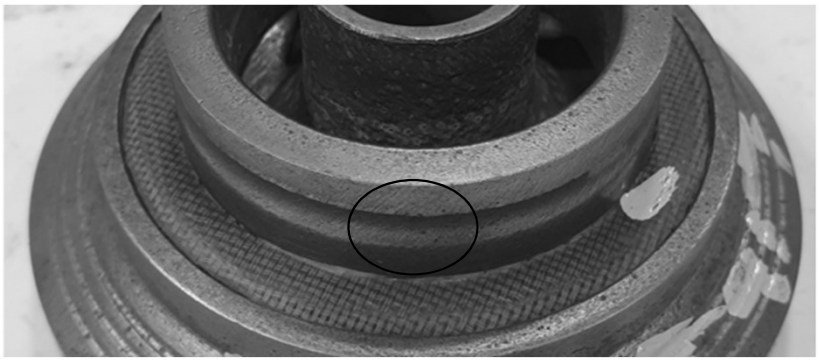


Figure 7



Figure 8

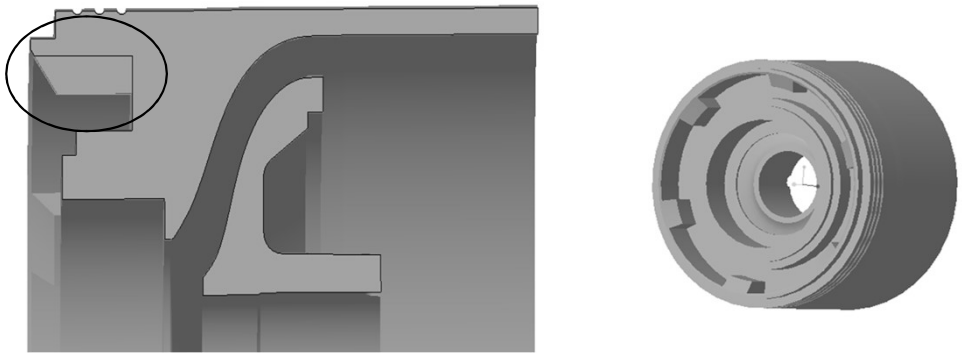


Figure 9



Figure 10

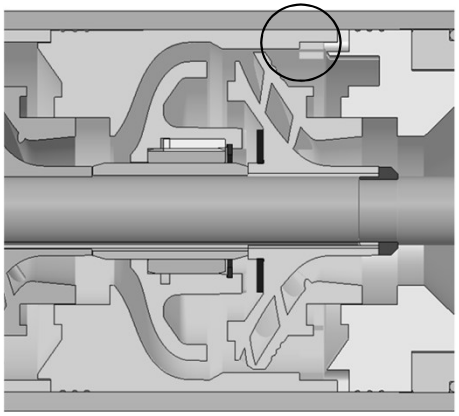


Figure 11

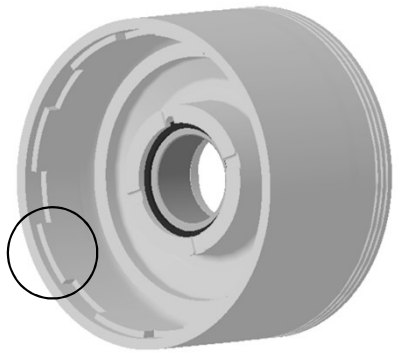


Figure 12