

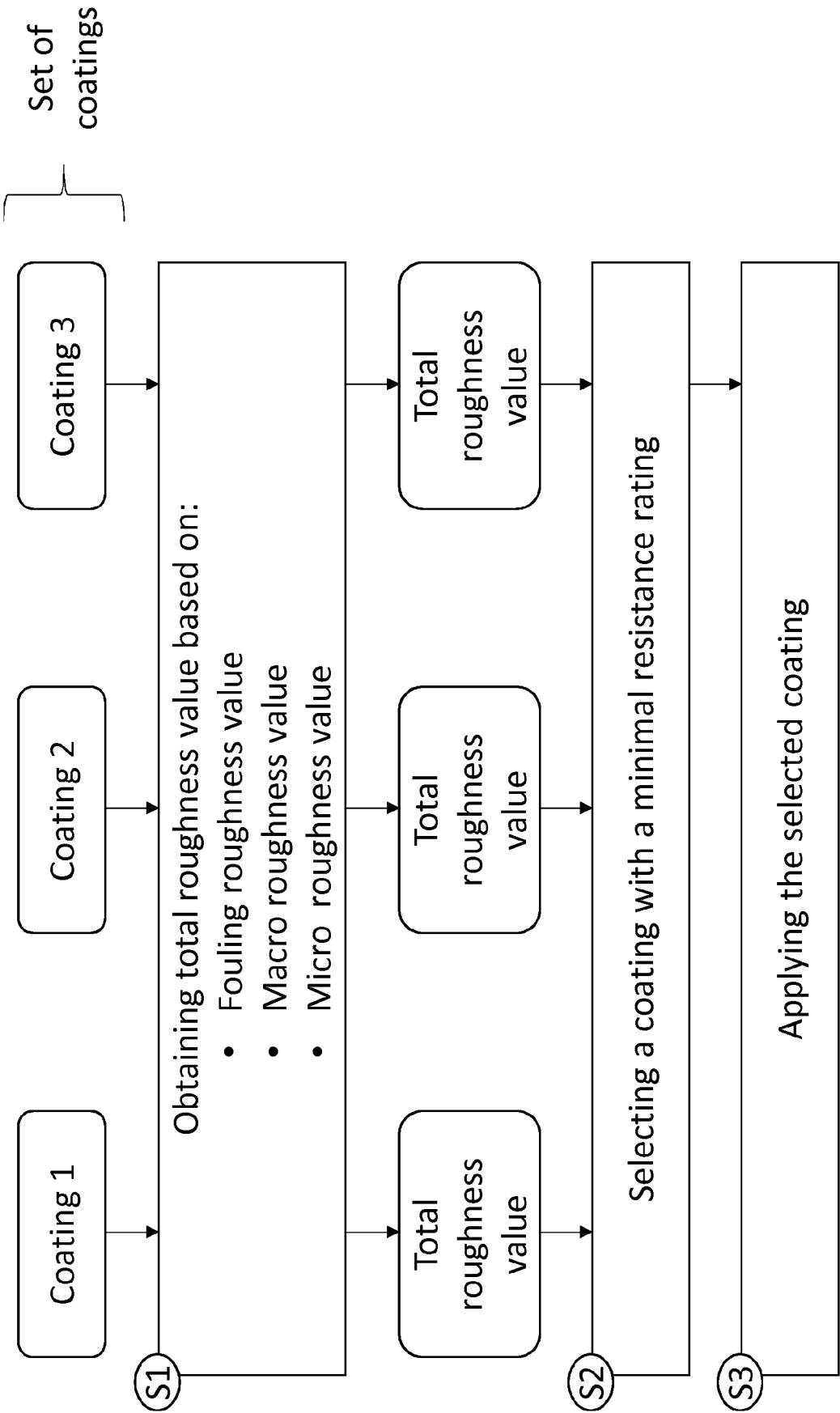
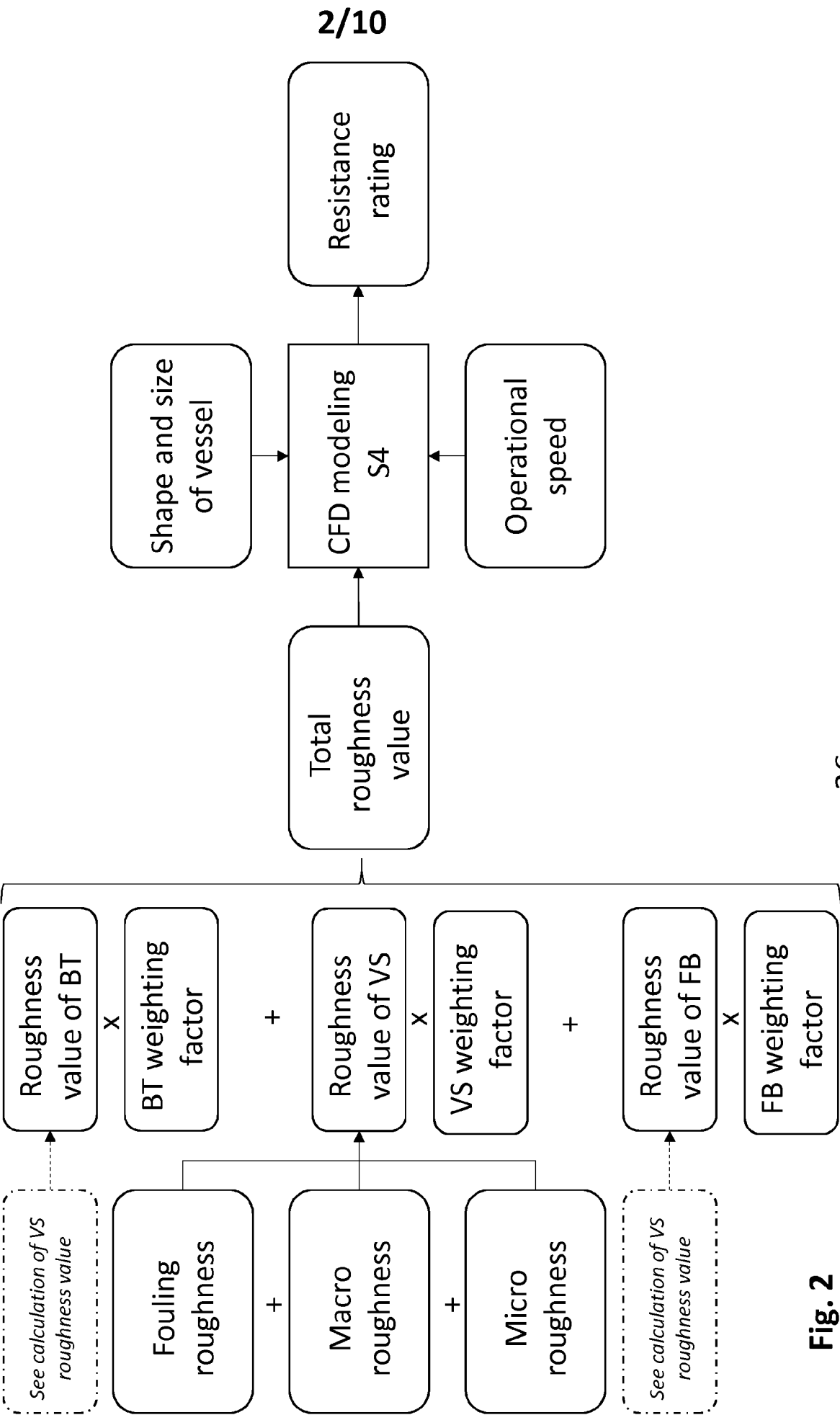


Fig. 1



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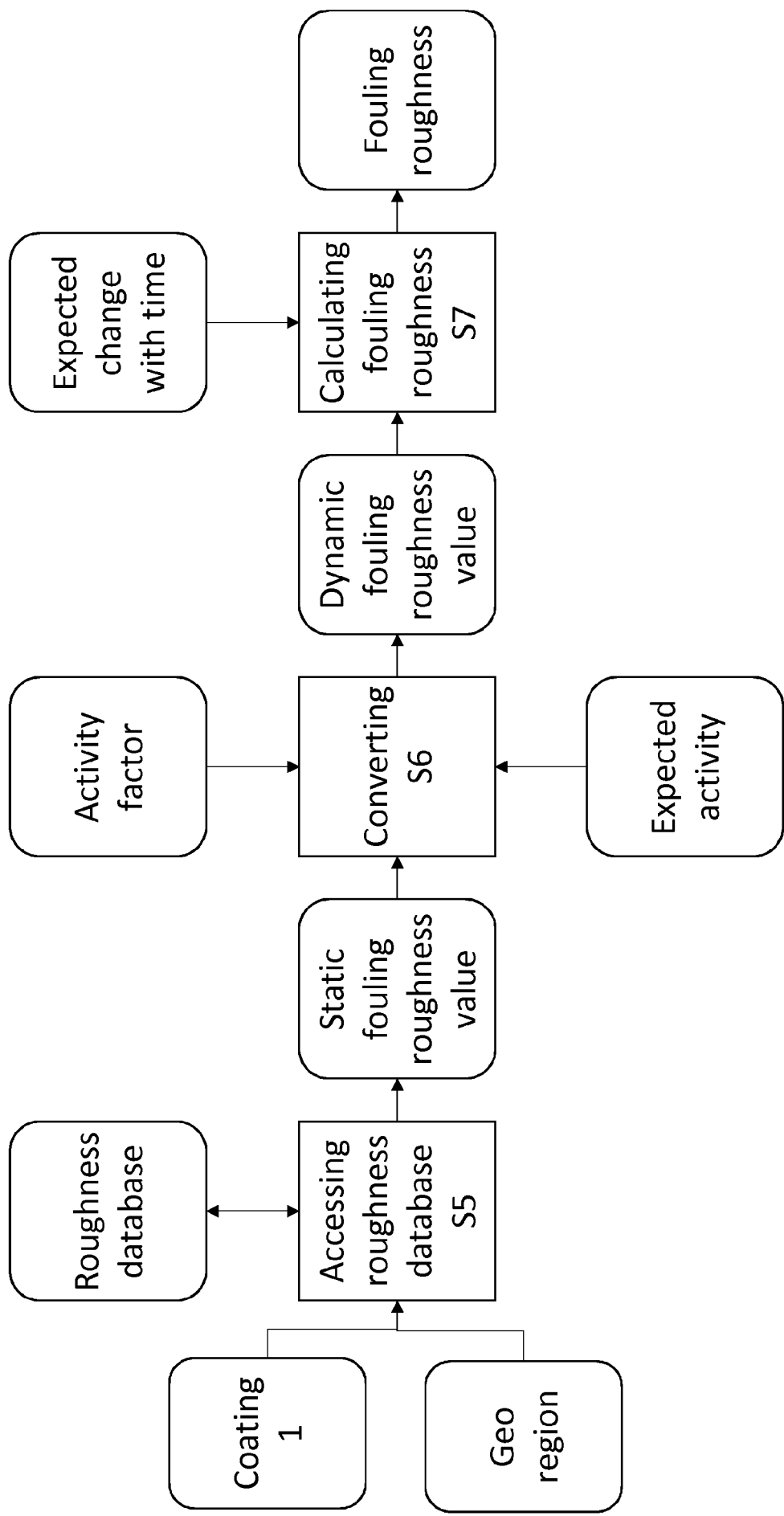


Fig. 3

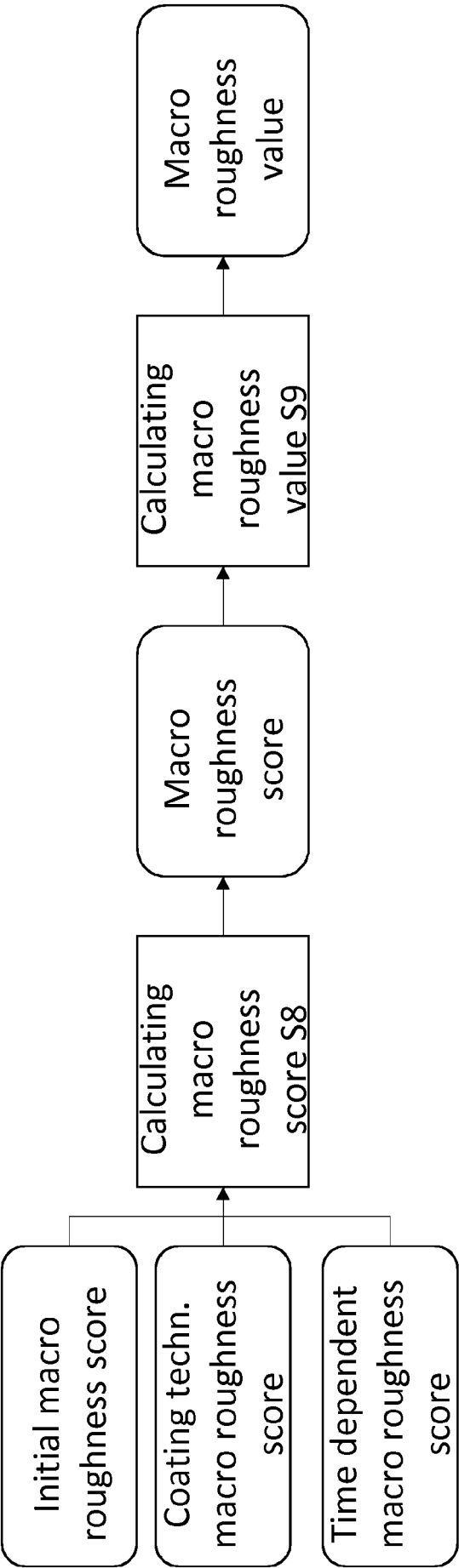


Fig. 4

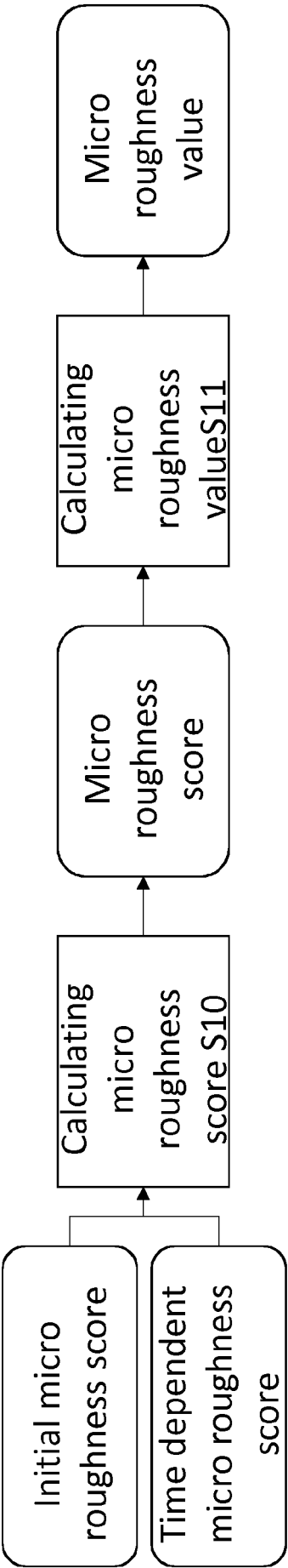


Fig. 5

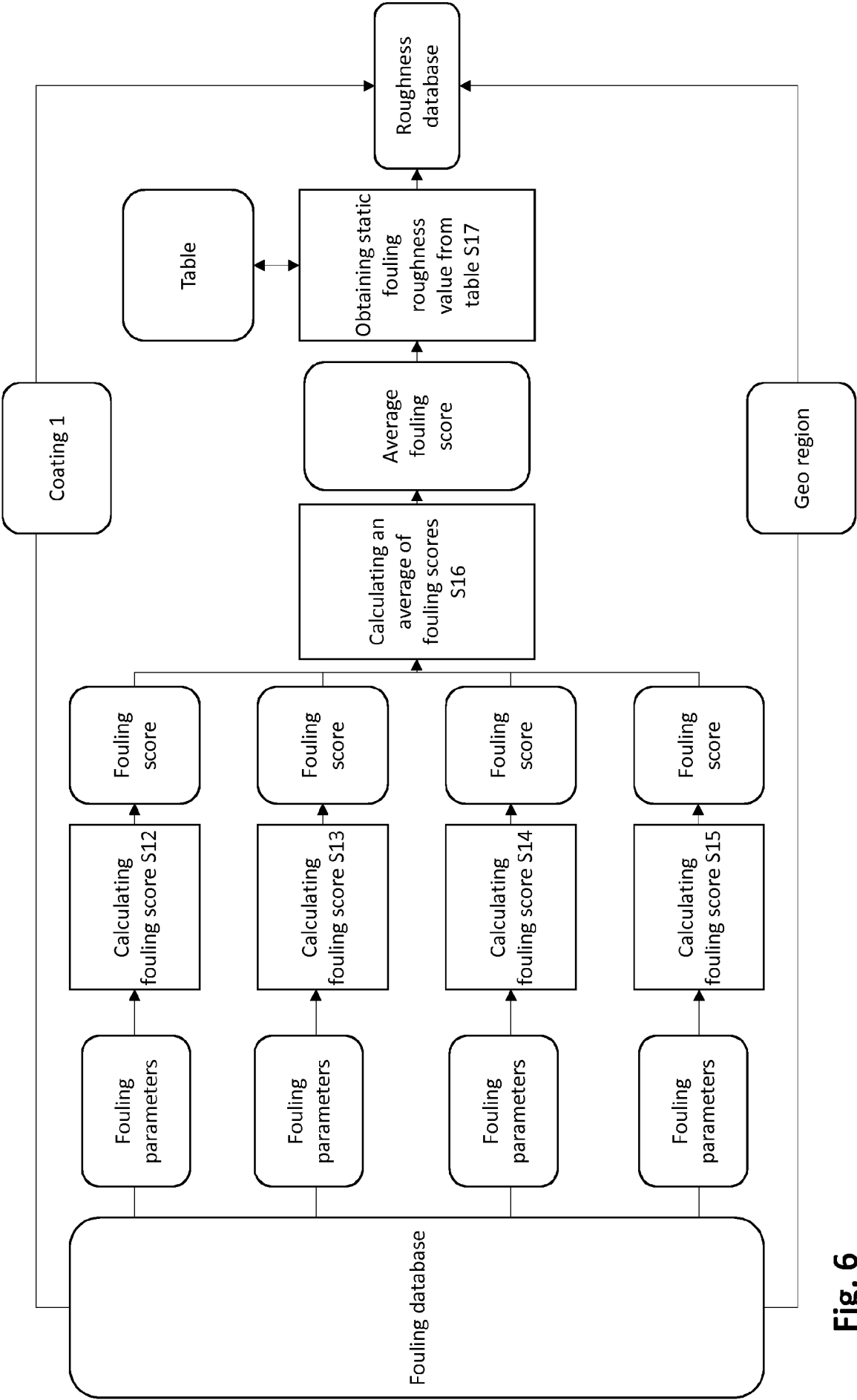


Fig. 6

Roughness database

Coating	Geographical region	Static fouling roughness value
Coating 1	Atlantic ocean	500
Coating 1	Indian ocean	200
Coating 1	South Pacific ocean	100
Coating 2	Atlantic ocean	600
Coating 2	Indian ocean	700
Coating 2	South Pacific ocean	300
Coating 3	Atlantic ocean	300
Coating 3	Indian ocean	200
Coating 3	South Pacific ocean	400

Fig. 7

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Table

Fouling score	Static fouling roughness value
0-1	100
1-2	300
2-3	500
3-5	700
5-7	800
7-10	1000

Fig. 9

Fouling database

Ship	Coating	Geographical region	Fouling parameters		Fouling score	Subgroup
			Light slime %	Heavy slime %		
Ship A	Coating 1	Atlantic Ocean	50	30	3.7	Low
Ship B	Coating 1	Atlantic Ocean	60	40	4.7	Medium
Ship C	Coating 1	Atlantic Ocean	10	90	8.3	High
Ship D	Coating 1	Atlantic Ocean	40	40	4.0	Low
Ship E	Coating 1	Atlantic Ocean	40	30	3.3	Low
Ship F	Coating 1	Atlantic Ocean	30	60	5.0	Medium
Ship G	Coating 1	Atlantic Ocean	40	40	4.0	Low
Ship H	Coating 1	Atlantic Ocean	50	20	3.0	Low
Ship I	Coating 1	Atlantic Ocean	30	30	3.0	Low
Ship J	Coating 1	Atlantic Ocean	40	20	2.7	Low

Fig. 8

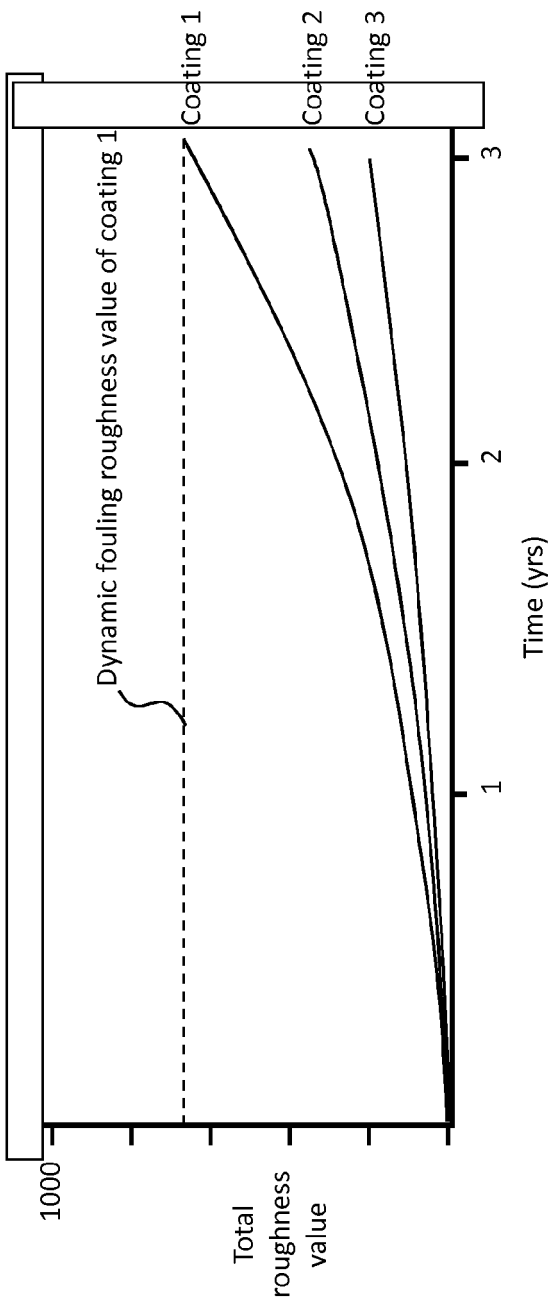


Fig. 10

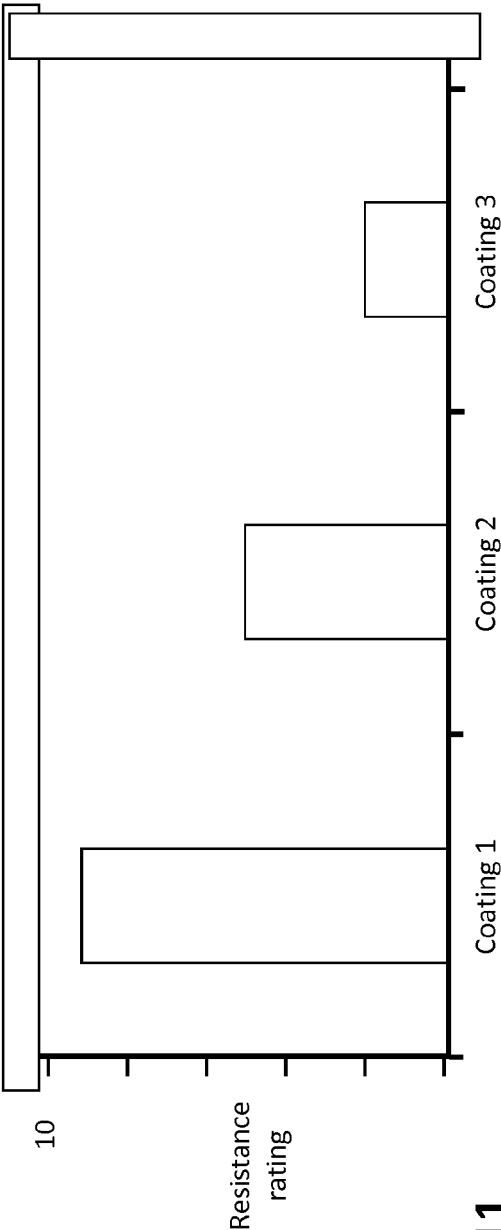


Fig. 11

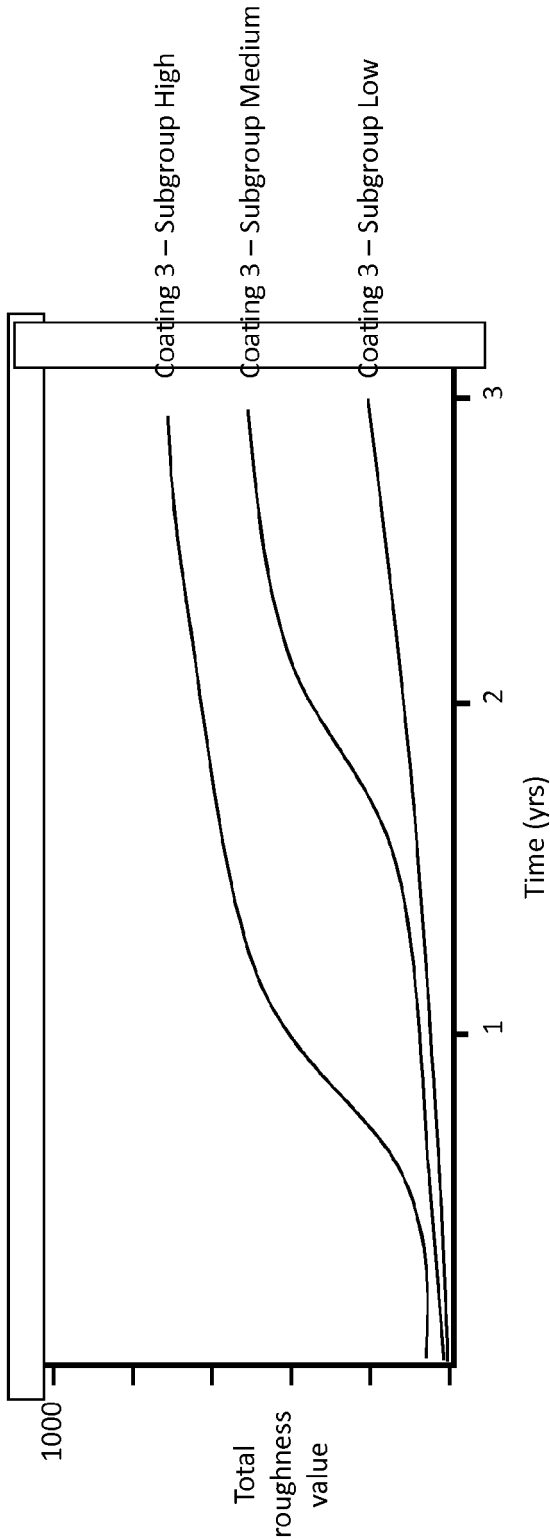


Fig. 12

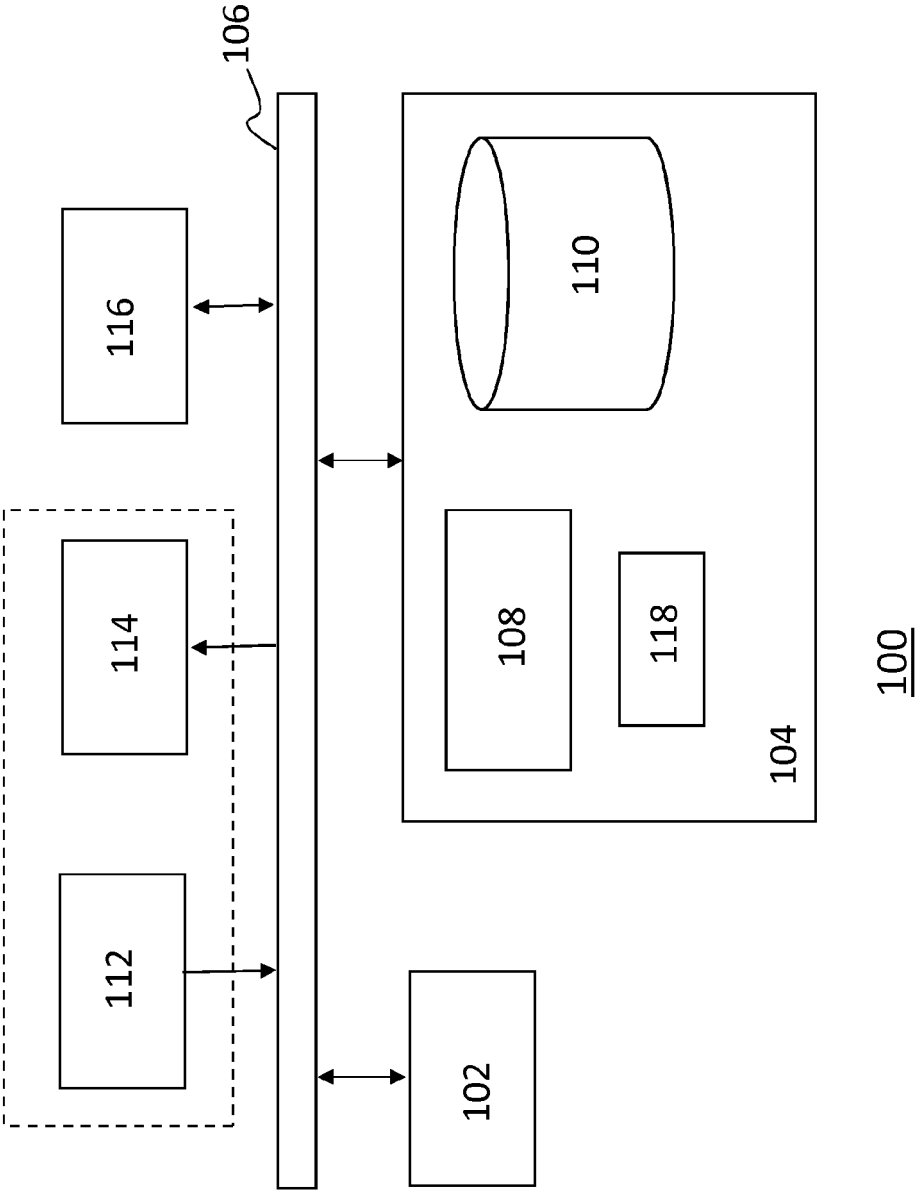


Fig. 13