

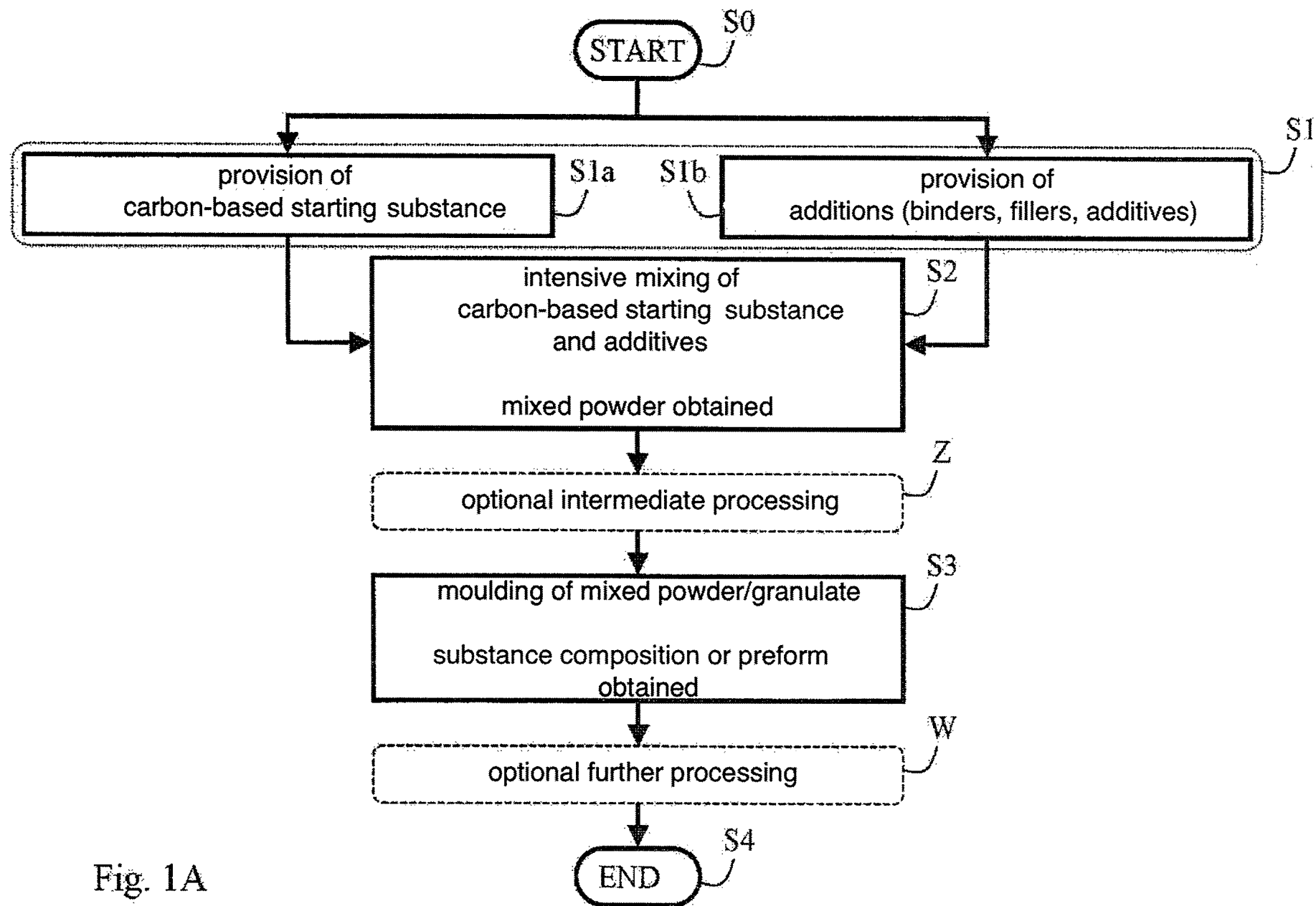


Fig. 1A

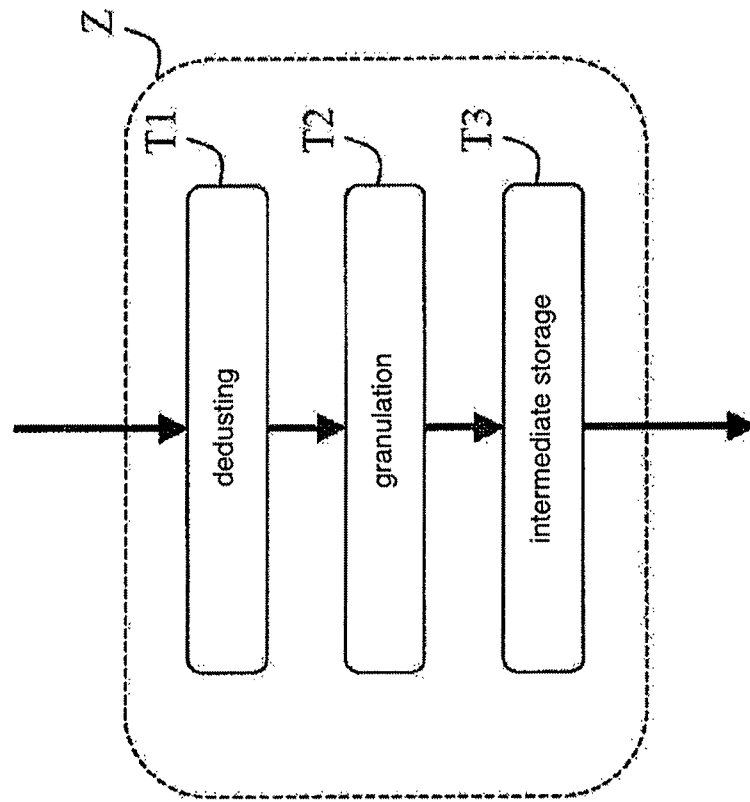


Fig. 1B

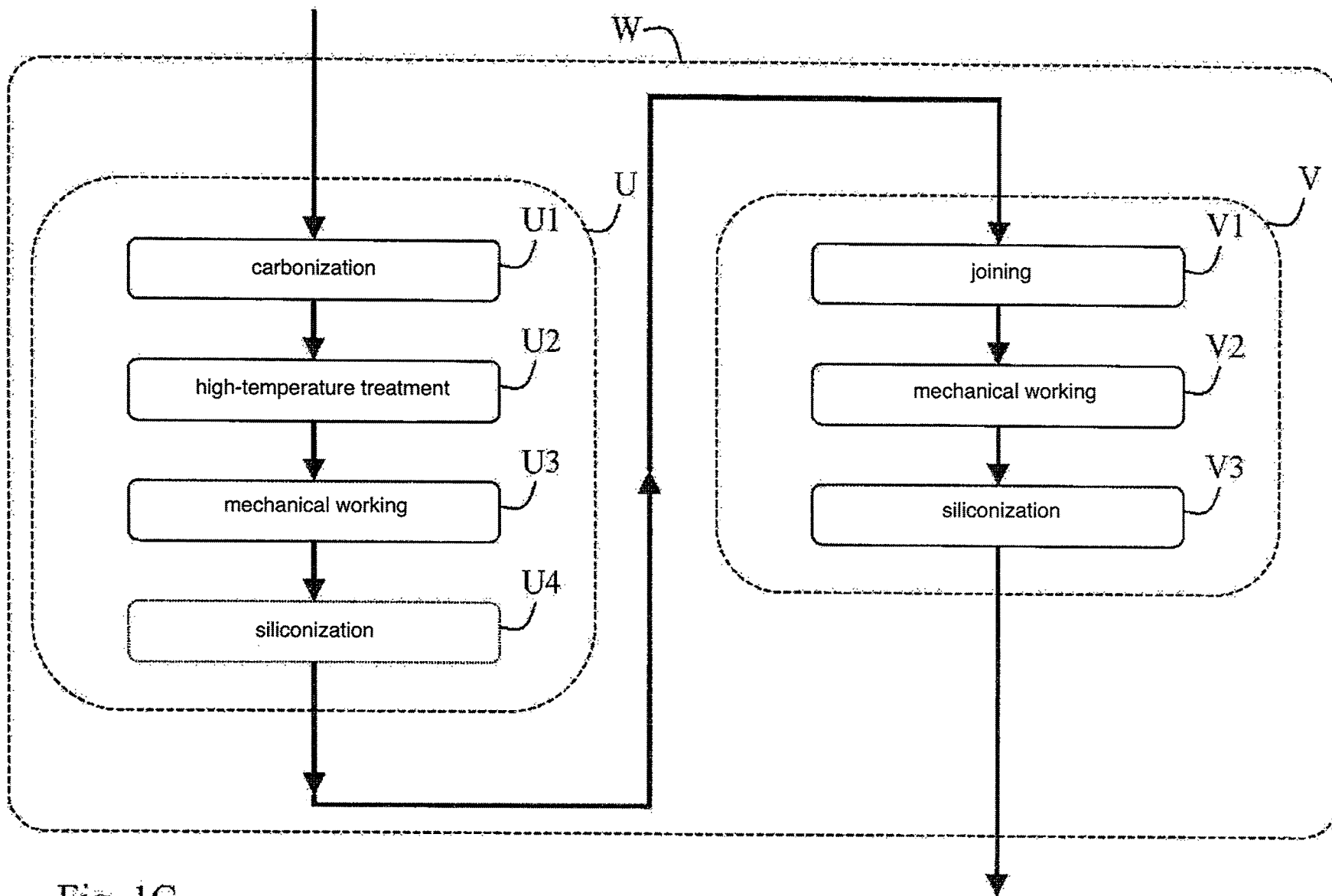


Fig. 1C

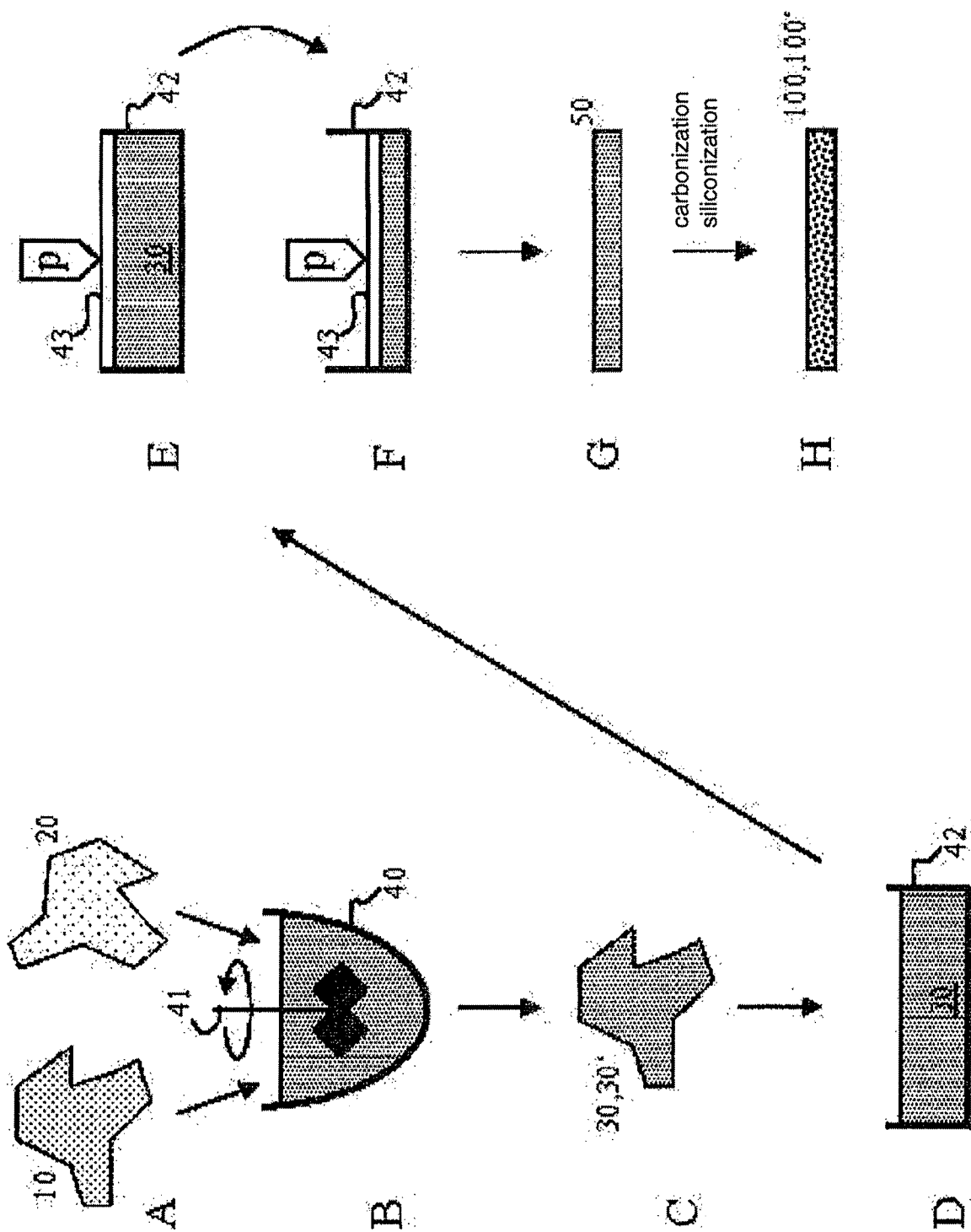


Fig. 2

Table 1:

Density of the substance composition as a
function of the compressive force during moulding

Pressure p MPa	Density CFRP g/cm ³	Density CFC g/cm ³
1.0	0.61	0.58
1.5	0.65	0.61
2.0	0.70	0.65
2.5	0.73	0.69
3.0	0.76	0.72
4.0	0.82	0.77

Fig. 3

Graph 1

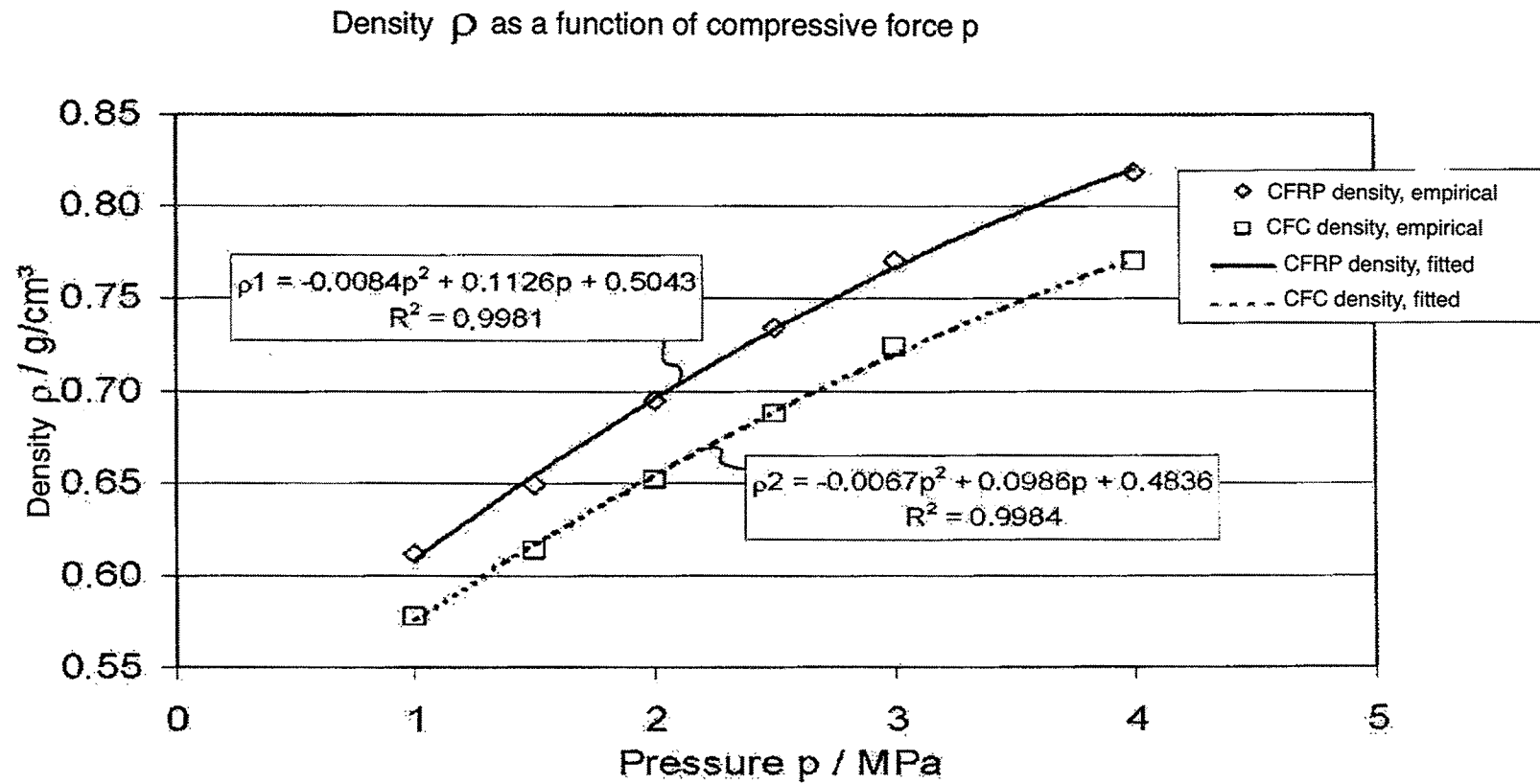


Fig. 4

Table 2:
Si uptake as a
function of the
density of the
CFC substance

Density CFC g/cm ³	Si uptake %	Si uptake %	Si uptake %	Si uptake %
0.537	417.50			
0.568		390.00		
0.574			398.50	
0.590				368.30
0.601				361.60
0.607			371.10	
0.615		354.00		
0.616	365.90			
0.641				339.00
0.644			346.10	
0.646	319.70			
0.652	342.10			
0.656		330.80		
0.666		325.40		
0.691				312.70
0.695			313.10	
0.709				301.70
0.715	295.30			
0.716		298.90		
0.722			303.60	
0.754				285.20
0.766		275.10		
0.769	281.00			
0.777			280.70	

Fig. 5

Graph 2

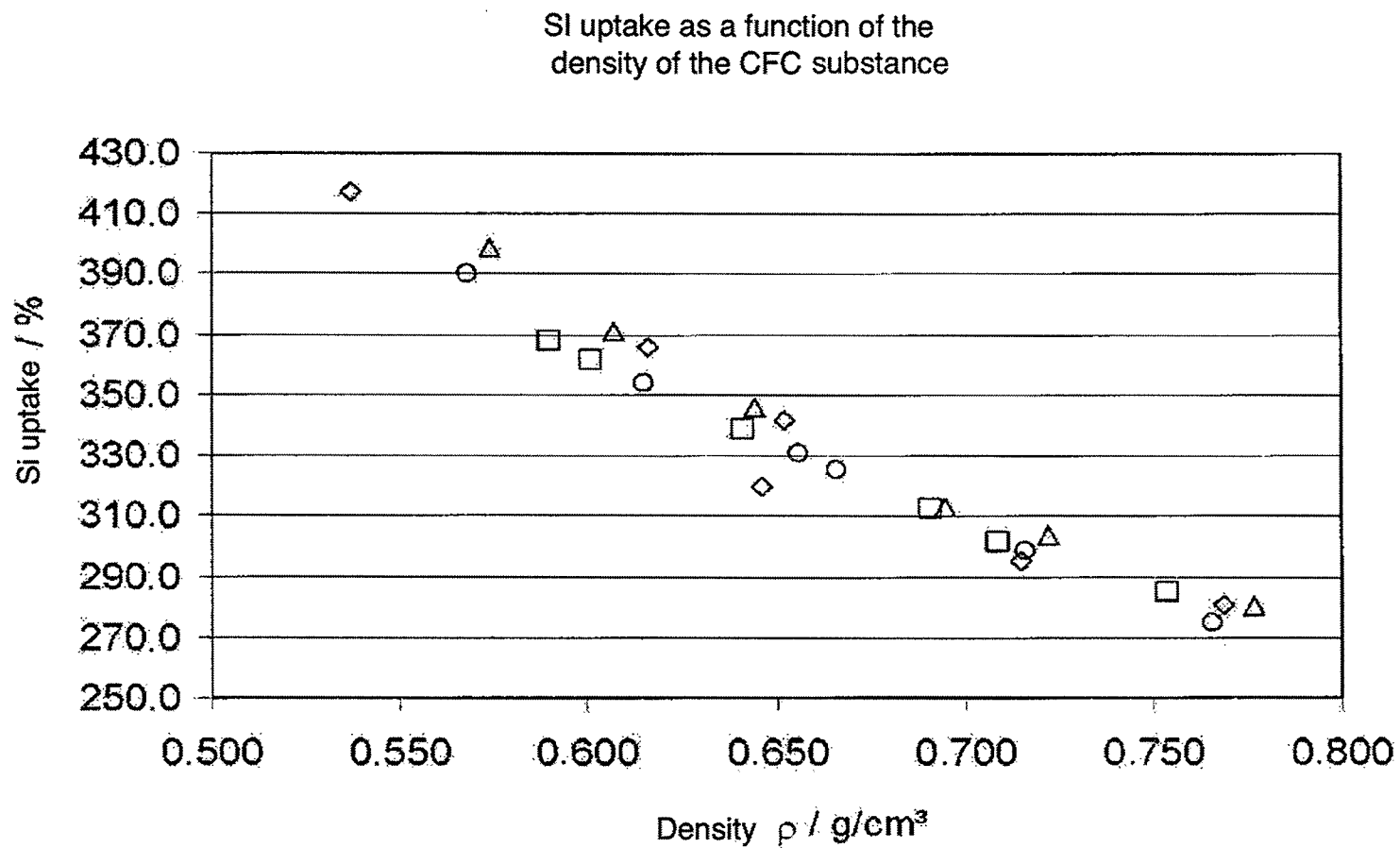


Fig. 6

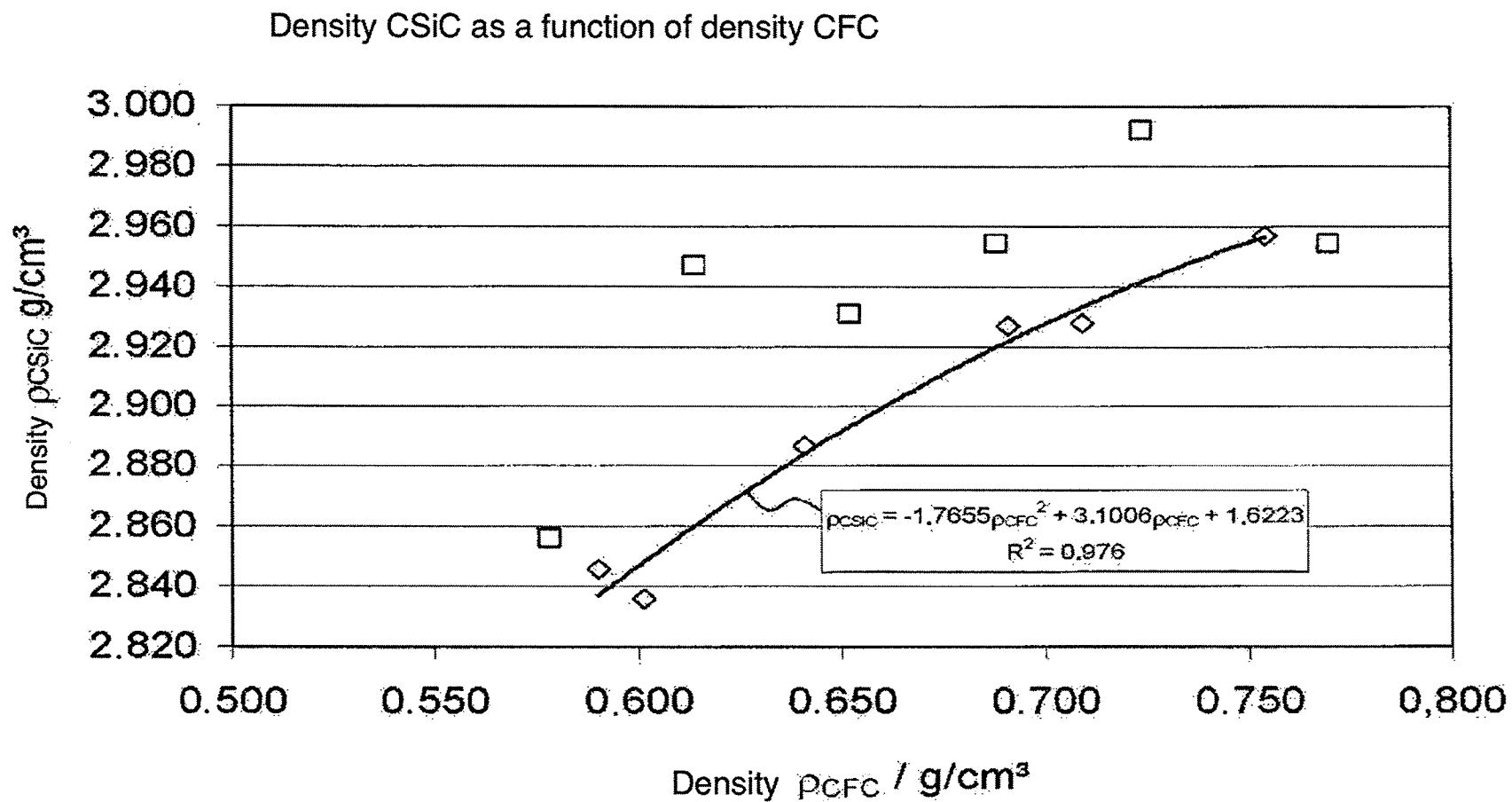
Table 3:

Density of the CSiC
substance as a function of
the density of the CFC substance

Density CFC g/cm ³	Density CSiC g/cm ³	Density CSiC g/cm ³
0.578	2.856	
0.590		2.846
0.601		2.836
0.614	2.947	
0.641		2.887
0.652	2.931	
0.688	2.954	
0.691		2.927
0.709		2.928
0.724	2.992	
0.754		2.957
0.770	2.954	

Fig. 7

Graph 3



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Fig. 8

Table 4:

Modulus of elasticity of the substance
composition as a function of the
density of the CSiC substance

Density CSiC g/cm ³	Modulus of elasticity GPa
2.84	278.8
2.86	274.6
2.84	277.6
2.80	273.3
2.85	206.6
2.88	292.5
2.85	290.0
2.88	294.0
2.92	305.8
2.90	311.1
2.91	301.1
2.91	311.6
2.94	296.9
2.92	303.7
2.93	321.0
2.95	322.9
2.94	325.8
2.94	324.1
2.96	325.6
2.96	323.0
2.95	328.6

Fig. 9

Graph 4

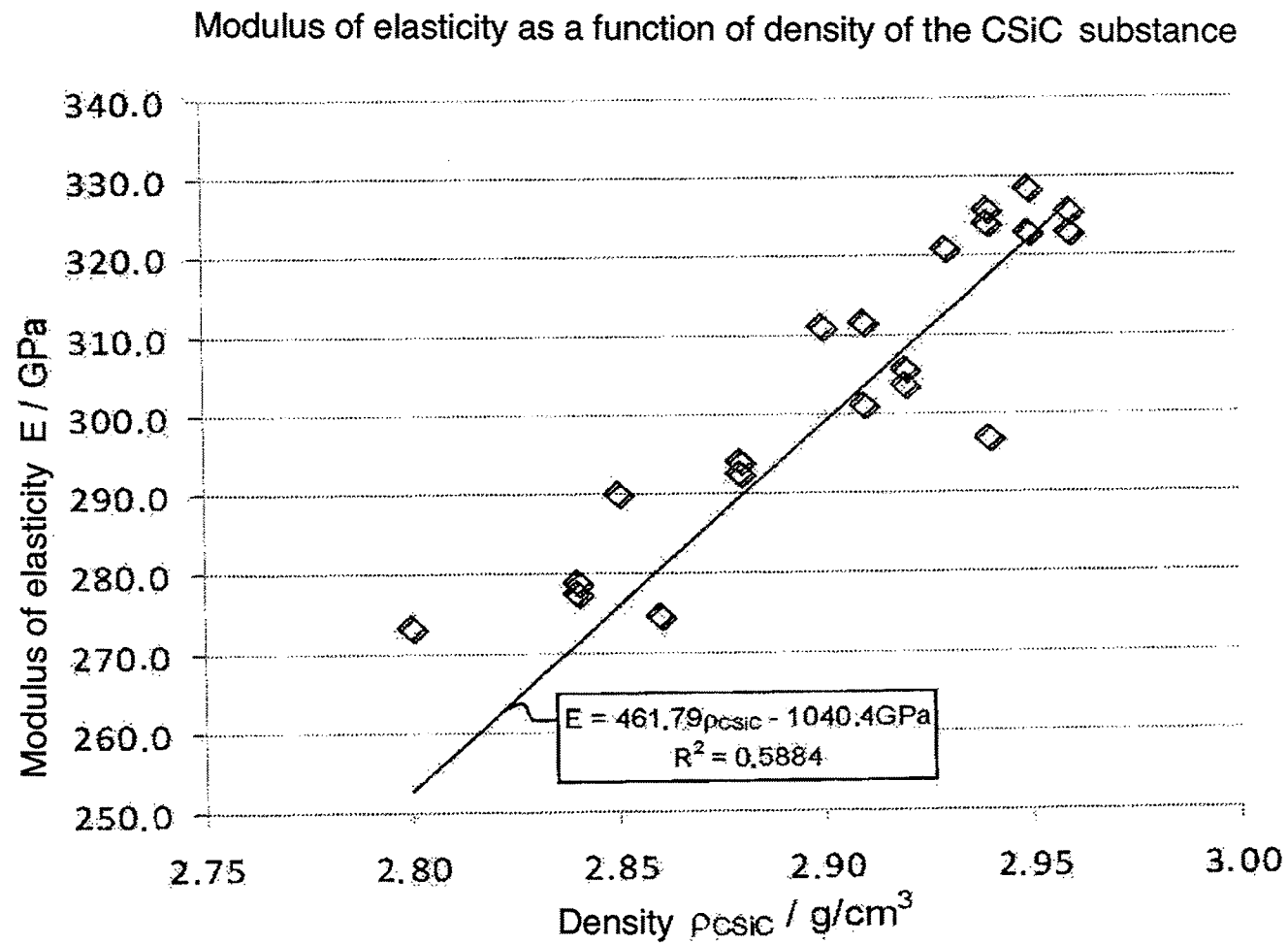


Fig. 10