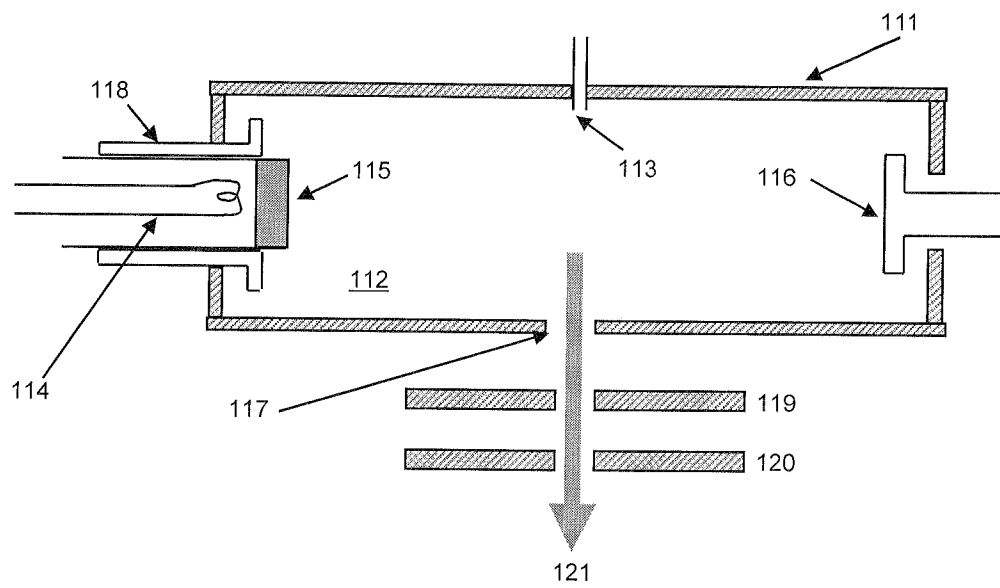
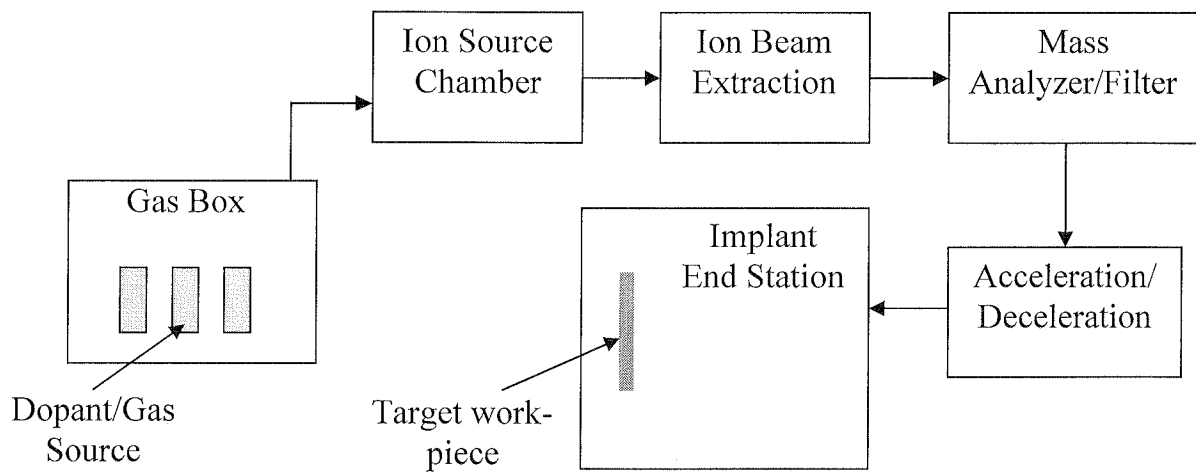


**Fig. 1**

	Reaction	Dissociation Energy (kcal/mol)
SiF ₄ dissociation mechanism		
1	SiF ₄ ⇌ SiF ₃ + F	165.00
2	SiF ₃ ⇌ SiF ₂ + F	103.42
3	SiF ₂ ⇌ SiF + F	158.62
4	SiF ⇌ Si + F	135.00
SiH ₂ F ₂ dissociation mechanism		
4	SiH ₂ F ₂ ⇌ SiF ₂ + H ₂	36.60
5	SiF ₂ ⇌ SiF + F	158.62
6	SiF ⇌ Si + F	135.00
SiH ₂ Cl ₂ dissociation mechanism		
7	SiH ₂ Cl ₂ ⇌ SiCl ₂ + H ₂	36.30
8	SiCl ₂ ⇌ SiCl + Cl	104.59
9	SiCl ⇌ Si + Cl	97.07

Fig. 2

**Fig. 3**