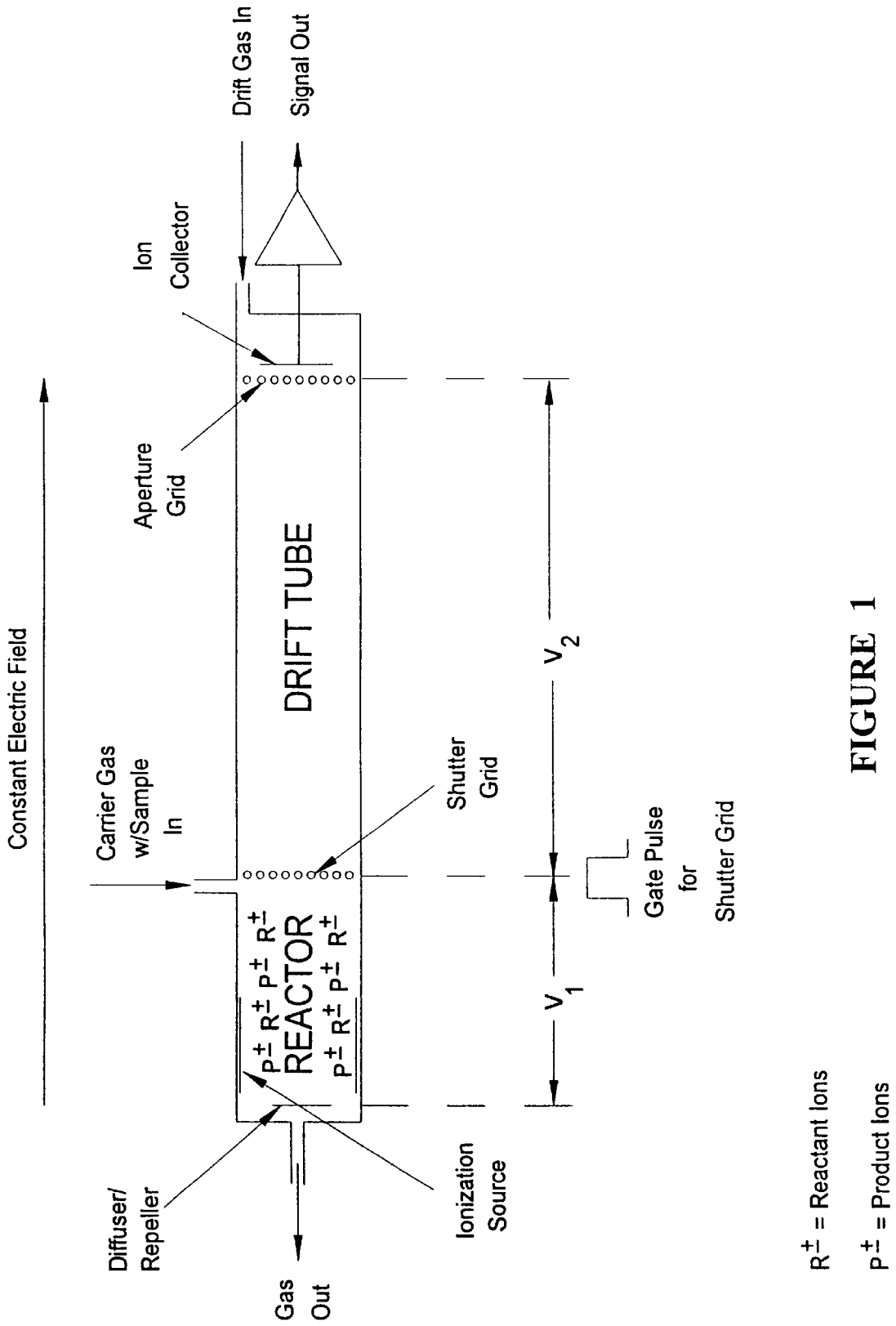
Drift Gas In
Signal Out
Ion Collector
Aperture Grid
DRIFT TUBE
Constant Electric Field
Carrier Gas w/Sample In
Shutter Grid
V_2
V_1
Gate Pulse for Shutter Grid
$P^{\pm}$ $R^{\pm}$ $P^{\pm}$ $R^{\pm}$
REACTOR
$P^{\pm}$ $R^{\pm}$ $P^{\pm}$ $R^{\pm}$
Diffuser/ Repeller
Ionization Source
Gas Out
$R^{\pm}$ = Reactant Ions
$P^{\pm}$ = Product Ions

FIGURE 1