$$i\hbar\frac{\partial\psi_\epsilon(x,t)}{\partial t} = -\frac{\hbar^2}{2m}\frac{\partial^2\psi_\epsilon(x,t)}{\partial x^2} + \frac{\hbar^2}{2m}\frac{1-\epsilon}{|\psi_\epsilon(x,t)|}\frac{\partial^2|\psi_\epsilon(x,t)|}{\partial x^2}\psi_\epsilon(x,t)$$