$$F(s) = \frac{A}{(s+p)} + \frac{Bs}{((s+\alpha)^2+\beta^2)} + \frac{C}{((s+\alpha)^2+\beta^2)}$$

$$+ \frac{Ds}{((s+a)^2+b^2)} + \frac{E}{((s+a)^2+b^2)}$$