Typing Rules for the Pi Calculus:

$$\overline{\Gamma \vdash \mathsf{0} \ \mathsf{wf}}$$

$$\frac{\Gamma \vdash Q_1 \text{ wf} \quad \Gamma \vdash Q_2 \text{ wf}}{\Gamma \vdash Q_1 | Q_2 \text{ wf}}$$

$$\frac{\Gamma, x : \tau \vdash Q \text{ wf } \quad x \notin \Gamma}{\Gamma \vdash \text{new } x : \tau, Q \text{ wf}}$$

$$\frac{\Gamma_1 \vdash \mathsf{pat} : \tau \to \Gamma_2 \quad \Gamma_1 \vdash e : \tau \quad \Gamma_1 \Gamma_2 \vdash Q \; \mathsf{wf}}{\Gamma \vdash \; \mathsf{send} \; e_1(\mathsf{pat}), Q \; \mathsf{wf}}$$

$$\frac{\Gamma \vdash \ \mathsf{rec} \ e(\mathsf{pat}), Q \ \mathsf{wf}}{\Gamma \vdash \ \mathsf{rec!} \ e(\mathsf{pat}), Q \ \mathsf{wf}}$$