$$(\mathbb{C}_{out} = \operatorname{State}(\mathbb{L}, \mathbb{C}_{in})) \stackrel{\text{def}}{=} \exists i, s : i \in \mathcal{I} \land (\exists d : \operatorname{Map}(\mathcal{L}_x(F_u(i)), d, s) \land \neg (\exists e, j, v : (R_u, i) \lhd (R_v, j) \land \operatorname{Map}(\mathcal{L}_y(F_v(j)), e, s)) \land \mathbb{C}_{out}(s) = \mathcal{B}(\mathcal{L}_x(F_u(i)))) \lor (\neg (\exists e : \operatorname{Map}(\mathcal{L}_x(F_u(i)), e, s)) \land \mathbb{C}_{out}(s) = \mathbb{C}_{in}(s))$$
(8)