Initial proof:

$$\frac{C \to C}{C \to C, A} \xrightarrow{A \to A} \xrightarrow{A \to C, A} \downarrow_{\iota_{l}} \qquad \qquad \underbrace{\frac{C \to C}{C \to C, A} \xrightarrow{A \to A} \xrightarrow{A \to C, A}}_{(C \lor A) \to C, A} \downarrow_{\iota_{l}} \qquad \qquad \underbrace{\frac{C \to C}{C \to C, A} \xrightarrow{A \to A} \xrightarrow{A \to C, A}}_{(C \lor A) \to C, A} \downarrow_{\iota_{l}} \qquad \qquad \underbrace{\frac{(C \lor C) \to C, A}{(C \lor A) \to C, A} \xrightarrow{\iota_{l}} \xrightarrow{\iota_{l}} \xrightarrow{C \to C, A}}_{(C \lor A) \to C, A} \downarrow_{\iota_{l}} \qquad \qquad \underbrace{\frac{(C \lor C) \to C, A}{(C \lor A) \to C, A} \xrightarrow{\iota_{l}} \xrightarrow{\iota_{l}} \xrightarrow{C \to C, A}}_{(C \lor A) \to C, A} \downarrow_{\iota_{l}} \qquad \qquad \underbrace{\frac{(C \lor C) \to C, A}{(C \lor A) \to C, A} \xrightarrow{\iota_{l}} \xrightarrow{\iota_{l}} \xrightarrow{C \to C, A}}_{(C \lor A) \to C, A} \downarrow_{\iota_{l}} \qquad \qquad \underbrace{\frac{(C \lor C) \to C, A}{(C \lor A) \to C, A} \xrightarrow{\iota_{l}} \xrightarrow{\iota_{l}}$$

Cut-free proof: