

sends_wf^{11,40}

$\forall E:\text{Type}, dE:\text{EqDecider}(E), dL:\text{EqDecider}(\text{IdLnk}), V:(\text{Knd} \rightarrow \text{Id} \rightarrow \text{Type}), \text{pred}?:(E \rightarrow (?E)),$
 $\text{info}:(E \rightarrow ((:\text{Id} \times \text{Id}) + (:(\text{IdLnk} \times E) \times \text{Id}))), \text{val}:(e:E \rightarrow V(\text{kind}(e), \text{loc}(e))),$
 $p:(\forall e:E, l:\text{IdLnk}.$
 $\quad \exists e':E$
 $\quad (\forall e'':E.$
 $\quad (\uparrow \text{rcv}?(e''))$
 $\quad \Rightarrow (\text{sender}(e'') = e)$
 $\quad \Rightarrow (\text{link}(e'') = l)$
 $\quad \Rightarrow (((e'' = e') \vee e'' < e') \ \& \ \text{loc}(e') = \text{destination}(l) \in \text{Id}))), e:E, l:\text{IdLnk}.$
 $\text{SWellFounded}((\neg(\uparrow \text{first}(y))) \ \text{c} \wedge (x = \text{pred}(y) \in E))$
 $\Rightarrow (\text{sends}(dE; dL; \text{pred}?: \text{info}; \text{val}; p; e; l) \in (\text{Msg}(\lambda l, tg. V(\text{rcv}(l, tg), \text{destination}(l))) \ \text{List}))$