sends-bound-property[11,40]

$\forall E,X_1,X_2$:Type, $info$:$(E{\rightarrow}((\text{:Id} \times X_1) + (\text{:}(\text{:IdLnk} \times E) \times X_2)))$, $pred?$:$(E{\rightarrow}(?E))$,
  p:$(\forall e$:E, l:IdLnk.
    $\exists e'$:E
     $(\forall e''$:E.
     $(\uparrow\text{rcv?}(e''))$
     $\Rightarrow (\text{sender}(e'') = e)$
     $\Rightarrow (\text{link}(e'') = l)$
     $\Rightarrow (((e'' = e') \vee e'' < e') \wedge (\text{loc}(e') = \text{destination}(l) \in \text{Id}))))$,
  e:E, l:IdLnk.
guard$((\forall e''$:E.
    $(\uparrow\text{rcv?}(e''))$
    $\Rightarrow (\text{sender}(e'') = e)$
    $\Rightarrow (\text{link}(e'') = l)$
    $\Rightarrow (((e'' = \text{sends-bound}(p; e; l)) \vee e'' < \text{sends-bound}(p; e; l))$
      $\wedge (\text{loc}(\text{sends-bound}(p; e; l)) = \text{destination}(l) \in \text{Id}))))$