sys-order[13,45]

sys-order(es; Sys; f)
$\equiv_{\text{def}}$ $\forall a_1$, b_1:E(Sys).
a_1 is $f*(b_1)$
$\Rightarrow$ ($\forall a_2$, b_2:E(Sys).
a_2 is $f*(b_2)$
$\Rightarrow$ (a_1 <loc a_2)
$\Rightarrow$ ($\neg a_1$ is $f*(a_2)$)
$\Rightarrow$ (loc(b_1) = loc(b_2))
$\Rightarrow$ (b_1 <loc b_2))

clarification:

sys-order(es; Sys; f)
$\equiv_{\text{def}}$ $\forall a_1$:es-E-interface(es;Sys), b_1:es-E-interface(es;Sys).
fun-connected(es-E-interface(es;Sys);f;b_1;a_1)
$\Rightarrow$ ($\forall a_2$:es-E-interface(es;Sys), b_2:es-E-interface(es;Sys).
fun-connected(es-E-interface(es;Sys);f;b_2;a_2)
$\Rightarrow$ es-locl(es; a_1; a_2)
$\Rightarrow$ ($\neg$fun-connected(es-E-interface(es;Sys);f;a_2;a_1))
$\Rightarrow$ (es-loc(es; b_1) = es-loc(es; b_2) $\in$ Id)
$\Rightarrow$ es-locl(es; b_1; b_2))

---

http://www.nuprl.org/FDLcontent/p0_963683_/p28_649780_{sys-order}.html