recognizer-p[11,40]

recognizer-p(es;T;A;P;k;i;r;x)
$\equiv_{\text{def}}$ $\forall e@i.$ (kind(e) = k) $\Rightarrow$ (valtype(e) $\subseteq$r T) & (vartype(i;x) $\subseteq$r A)
& $@i(r{:}\mathbb{B})$
& $\forall e@i.$ ($\uparrow$first(e)) $\Rightarrow$ ((r when e) = ff)
& $\forall e@i.$
($\uparrow$(r after e))
$\iff$ ($\exists e'$:E. ((e' $\leq$loc e & kind(e') = k) c$\wedge$ ($\uparrow$(P((x when e'),val(e'))))))

clarification:

recognizer-p(es;T;A;P;k;i;r;x)
$\equiv_{\text{def}}$ alle-at(es;i;e.(es-kind(es; e) = $k \in$ Knd) $\Rightarrow$ (es-valtype(es; e) $\subseteq$r T))
& (es-vartype(es; i; x) $\subseteq$r A)
& es-dtype(es;i;r;$\mathbb{B}$)
& alle-at(es;i;e.($\uparrow$es-first(es; e)) $\Rightarrow$ (es-when(es; r; e) = ff $\in \mathbb{B}$))
& alle-at(es;i;e.($\uparrow$es-after(es; r; e))
$\iff$ ($\exists e'$:es-E(es)
((es-le(es;e';e) & es-kind(es; e') = $k \in$ Knd)
c$\wedge$ ($\uparrow$(P(es-when(es; x; e'),es-val(es; e')))))))

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http://www.nuprl.org/FDLcontent/p0_963683_/p37_763765_{recognizer-p}.html