interleaved_split[4,23]

$\forall T$:Type, L:T List, P:($T \rightarrow$Prop).
($\forall x$:T. Dec($P(x)$))
$\Rightarrow$ ($\exists L_1$, L_2:T List.
interleaving(T;L_1;L_2;L)
& ($\forall x$:T. ($x \in L_1$) $\Leftrightarrow$ ($x \in L$) & $P(x)$)
& ($\forall x$:T. ($x \in L_2$) $\Leftrightarrow$ ($x \in L$) & $\neg P(x)$))

http://www.nuprl.org/FDLcontent/p0_802137_/p84_106129_{interleaved_split}.html