pred-first-lemma[0,22]

$\forall E$:Type, $pred?$:$(E \rightarrow (E+\text{Unit}))$, n:$\mathbb{N}$, a, j:E.
$\text{first}(j) \Rightarrow \text{rel_exp}(E;\lambda x,y.\ \neg\text{first}(y)\ \&\ x = \text{pred}(y) \in E;n)(a,j) \Rightarrow a = j$

http://www.cs.cornell.edu/Info/Projects/NuPrl/FDLcontent/p0_286125_/p11_500809_{pred-first-lemma}.html