Inference at $*$ 1
of proof for Lemma inv_image_ind_a:

1. T : Type
2. r : $T \to T \to \mathbb{P}$
3. S : Type
4. f : $S \to T$
5. WellFnd{i}(T;x,y.$r(x,y)$)

$\vdash$ WellFnd{i}(S;x,y.$r(f(x),f(y))$)

by ((((RepUnfolds "wellfounded guard" 0)
CollapseTHEN (RepD))·)
CollapseTHENA (
(Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))·

1:

6. P : $S \to \mathbb{P}$
7. $\forall j$:S. ($\forall k$:S. $r(f(k),f(j)) \Rightarrow P(k)$) $\Rightarrow P(j)$
8. n : S

$\vdash P(n)$

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