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

1. T_1 : Type
2. T_2 : Type
3. r_1 : $T_1 \to T_1 \to \mathbb{P}$
4. r_2 : $T_2 \to T_2 \to \mathbb{P}$
5. $T_1 = T_2$
6. $\forall x, y{:}T_1.\ r_1(x,y) \iff r_2(x,y)$

$\vdash$ WellFnd{i}(T_1;x,y.$r_1(x,y)$) $\iff$ WellFnd{i}(T_2;x,y.$r_2(x,y)$)
by D 0

1:

$\vdash$ WellFnd{i}(T_1;x,y.$r_1(x,y)$) $\Rightarrow$ WellFnd{i}(T_2;x,y.$r_2(x,y)$)

2:

$\vdash$ WellFnd{i}(T_1;x,y.$r_1(x,y)$) $\Leftarrow$ WellFnd{i}(T_2;x,y.$r_2(x,y)$)

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_96059_{wellfounded_functionality_wrt_iff}1.html