

Inference at * 1 1 1 2 1 1
of proof for Lemma decidable__quotient_equal:

1. $T : \text{Type}$
2. $E : T \rightarrow T \rightarrow \mathbb{P}$
3. $\text{EquivRel}(T; x, y. E(x, y))$
4. $f : T \rightarrow T \rightarrow \mathbb{B}$
5. $\forall x, y : T. (\uparrow(x \ f \ y)) \iff E(x, y)$
6. $f \in (x, y : T // E(x, y)) \rightarrow (x, y : T // E(x, y)) \rightarrow \mathbb{B}$
7. $u : x, y : T // E(x, y)$
8. $v : x, y : T // E(x, y)$
- $\vdash \downarrow((\uparrow(u \ f \ v)) \iff (u = v))$
by ((((((UseEqWitness Ax)
CollapseTHENM (D 8)).)
CollapseTHENM (D 7)).)

CollapseTHENA ((Auto_aux (first_nat 1:n) ((first_nat 1:n), (first_nat 3:n)) (first_tok :t) inil.term))).

1:

7. $v_1 : T$
8. $v_2 : T$
9. $E(v_1, v_2)$
10. $u_1 : T$
11. $u_2 : T$
12. $E(u_1, u_2)$
- $\vdash \text{Ax} = \text{Ax}$

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