Inference at $*$ 1 1 3
of proof for Lemma decidable_atom_equal:

. . . . .subterm. T:t3:n

1. a : Atom
2. b : Atom
3. $a = b$

$\vdash$ (inl Ax) $\in$ (($a = b$) $\vee$ ($\neg$($a = b$)))
by MemberEqCD

1: . . . . .subterm. T:t1:n

$\vdash$ Ax $\in$ ($a = b$)

2: . . . . .eq aux. . . . . NILNIL

$\vdash$ ($\neg$($a = b$)) $\in$ Type

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_102724_{decidable__atom_equal}1_1_3.html