

map-concat-filter-lemma2^{0,22}

$\forall C:(\text{Id} \rightarrow \text{Type}), A, B:\text{Type}, L_2:(tg:\text{Id} \times (A \rightarrow B \rightarrow (C(tg) \text{ List}))) \text{ List}, L:(\text{IdLnk} \times t:\text{Id} \times C(t)) \text{ List},$
 $tg:\text{Id}, a:A, b:B.$
 $\{\text{map}(\lambda x.2\text{of}(x);L)$
 $=$
 $\text{concat}(\text{map}(\lambda tgf.\text{map}(\lambda x.\langle 1\text{of}(tgf), x \rangle;2\text{of}(tgf)(a,b));L_2))$
 $\in (tg:\text{Id} \times C(tg)) \text{ List}$
 $\Rightarrow \neg(tg \in \text{map}(\lambda p.1\text{of}(p);L_2))$
 $\Rightarrow \|\text{filter}(\lambda ms.1\text{of}(2\text{of}(ms)) = tg;L)\| = 0\}$