

map-concat-filter-lemma2^{11,40}

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