```
ct[s_] := ct[s, s]; ct[] = ct[0, 0];
ct[h_, t_][UU[L_], UU[R_]] := CF[UU[Distribute[pp[L, R]] /. {
        pp[_β | _δβ, _] → 0,
        pp[a[f_, i_, h], β[g_]] :> β[f bᵢ ((∂_{b_t} g) /. b_t → 0)],
        pp[a[f_, i_, h], a[g_, t, j_]] :> a[f (g /. b_t → 0), i, j],
        pp[a[f_, i_, h], a[g_, j_, k_]] :> a[f bᵢ ((∂_{b_t} g) /. b_t → 0), j, k],
        pp[a[f_, i_, h], c[g_, j_]] :> c[f bᵢ ((∂_{b_t} g) /. b_t → 0), j],
        pp[a[f_, i_, h], ao[g_, t, j_]] :> ao[f (g /. b_t → 0), i, j],
        pp[a[f_, i_, h], ao[g_, j_, k_]] :> ao[f bᵢ ((∂_{b_t} g) /. b_t → 0), j, k],
        pp[a[f_, i_, h], ca[g_, k_, t, j_]] :> ca[f (g /. b_t → 0), k, i, j],
        pp[a[f_, i_, h], ca[g_, l_, j_, k_]] :> ca[f bᵢ ((∂_{b_t} g) /. b_t → 0), l, j, k],
        pp[a[f_, i_, h], aao[g_, t, j_, t, k_]] → 0,
        pp[a[f_, i_, h], aao[g_, t, j_, k_, l_]] :> aao[f (g /. b_t → 0), i, j, k, l],
        pp[a[f_, i_, h], aao[g_, j_, k_, t, l_]] :> aao[f (g /. b_t → 0), j, k, i, l],
        pp[a[f_, i_, h], aao[g_, j_, k_, l_, m_]] :> aao[f bᵢ ((∂_{b_t} g) /. b_t → 0), j, k, l, m],
        pp[a[__], _] → 0,
        pp[c[f_, h], β[g_]] :> δβ[f ((∂_{b_t} g) /. b_t → 0)],
        pp[_c, _β] → 0,
        pp[c[f_, h], a[g_, t, j_]] :> c[f (g /. b_t → 0), j],
        pp[c[f_, h], a[g_, j_, k_]] :> ao[f ((∂_{b_t} g) /. b_t → 0), j, k] + c[f b_j ((∂_{b_t} g) /. b_t → 0), k],
        pp[_c, _a] → 0,
        pp[_c | _ao | _ca | _aao, _c | _ao | _ca | _aao] → 0,
        pp[ao[f_, i_, h], β[g_]] :> 0,
        pp[ao[f_, i_, h], a[g_, t, j_]] :> ao[f (g /. b_t → 0), i, j],
        pp[ao[f_, i_, h], a[g_, j_, k_]] :> 0,
        pp[_ao, _] → 0,
        pp[ca[_, h, _, h], _] → 0,
        pp[ca[f_, h, i_, j_], β[g_]] :> ao[f ((∂_{b_t} g) /. b_t → 0), i, j] + c[f bᵢ ((∂_{b_t} g) /. b_t → 0), j],
        pp[ca[f_, i_, j_, h], β[g_]] :> c[f b_j ((∂_{b_t} g) /. b_t → 0), i],
        pp[ca[f_, h, i_, j_], a[g_, t, k_]] :> ca[f (g /. b_t → 0), k, i, j],
        pp[ca[f_, h, i_, j_], a[g_, k_, l_]] :> aao[f ((∂_{b_t} g) /. b_t → 0), i, j, k, l] + ca[f bᵢ ((∂_{b_t} g) /. b_t → 0), j, k, l] +
          ca[f b_k ((∂_{b_t} g) /. b_t → 0), l, i, j],
        pp[ca[f_, i_, j_, h], a[g_, t, k_]] :> ca[f (g /. b_t → 0), i, j, k],
        pp[ca[f_, i_, j_, h], a[g_, k_, l_]] :> ca[f b_j ((∂_{b_t} g) /. b_t → 0), i, k, l],
        pp[_ca, _] → 0,
        pp[aao[_, _, h, _, h], _] → 0,
        pp[aao[f_, i_, h, j_, k_], β[g_]] :> c[-f bᵢ b_j ((∂_{b_t} g) /. b_t → 0), k],
        pp[aao[f_, i_, h, j_, k_], a[g_, t, l_]] :> aao[f (g /. b_t → 0), i, l, j, k],
        pp[aao[f_, i_, h, j_, k_], a[g_, l_, m_]] :> ca[-f bᵢ b_j ((∂_{b_t} g) /. b_t → 0), k, l, m],
        pp[aao[f_, i_, j_, k_, h], β[g_]] :> c[-f bᵢ b_k ((∂_{b_t} g) /. b_t → 0), j],
        pp[aao[f_, i_, j_, k_, h], a[g_, t, l_]] :> aao[f (g /. b_t → 0), i, j, k, l],
        pp[aao[f_, i_, j_, k_, h], a[g_, l_, m_]] :> ca[-f bᵢ b_k ((∂_{b_t} g) /. b_t → 0), j, l, m],
        pp[_aao, _] → 0 }]];
```