External Possession Constructions with Color Terms in Mandarin Chinese
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**PROBLEM** The possessive structures like (1a) is described as an External Possession Construction with Color Terms (EPCCT). The possessive subject (Zhangsan) is separated from the possessum (lian) by an adjective predicate (hong).

1. a. Zhangsan hong le lian.  
   Zhangsan red ASP face “Zhangsan’s face becomes red.”
   b. Zhangsan de lian hong le.  
   Zhangsan DE face red ASP “Zhangsan’s face becomes red.”

Like most EPCs, EPCCT displays obvious raising properties but a raising analysis (Landau 1999, Deal 2013) is problematic in terms of the afectee role Zhangsan bears. In Chomsky (1981) style raising, raising from theta position to theta position is banned by the theta criterion, which calls for a control analysis (Gueron 1985, Hole 2004). A recent solution (Lee-Shoenfeld 2006, Rodrigues 2010, Duarte & Oliveira 2018) appeals to the Hornstein (1999) style raising which discards the theta criterion, and a high affect APPL head is assumed to attract the possessor up. However, the problem persists since the possessor in (1b), a constituent with fully checked features, is not supposed to move.

**PROPOSAL** This article proposes that (1a) & (1b) are derived from an underlying inchoative structure as (2a). (1b) is formed by raising AP to VP, to vP and then to TP and then raising the entire possessive DP to spec_TP, as in (2b). For (1a), AP moves to VP first, as in (3a); then DE moves to V and becomes null in PF as in (3b), drags the possessor to spec_VP; then this de=hong complex moves to v, and drags the possessor up for licensing at spec_vP, as in (3c); then the verbal complex moves to T and the possessor moves to spec_TP for case, as in (3d).

2. a. [TPle[vP Inch. [VP sc[DP Zhangsan de lian][AP hong]]]]
   b. [TP[DP Zhangsan de lian][T Inch.=hong=le[vP Inch.=hong[VP hong[sc[DP Zhangsan de lian][AP hong]]]]]

3. a. [TPle[vP Inch.[VP hong[sc[DP Zhangsan de lian][AP hong]]]]]
   b. [TP[DP Zhangsan[v de=hong[sc[DP Zhangsan de lian][AP hong]]]]]
   c. [TP[DP Zhangsan[v=de=hong[sc[v de=hong[sc[DP Zhangsan de lian][AP hong]]]]]]]
   d. [TP[DP Zhangsan[v=de=hong[le[vP Zhangsan[v=de=hong[VP hong[sc[DP Zhangsan de lian][AP hong]]]]]]]]

**Assumptions**

1. One underlying assumption is that DE is a theta discharger whose semantics is give below. And the inchoative head Inch. bears a hidden [AFF] feature.

2. \[[DE]=\lambda P.x.P(x)\]

DE discharges a theta role to whatever it combines with. When DE is DP-internal, it discharges the possessor role of the possessum and when it is in the verbal domain, it discharges the affectee role. The movement of DE is driven by Enlightened Self Interest (Lasnik 1995) to discharge the affectee role of the inchoative head.

**Assumption II** Second, theta roles are stored in the predicates in the sense of Parsons (1990) and some theta roles are hidden in the sense of Bach & Cooper (1978):

3. a. \[[Inch]=\exists e.\text{Become}(e)\&\text{Afectee}(x,e)\]
   b. \[[[lian]]=\exists y.\text{Face}(y)\&\text{Possessor}(x,y)\]

**Predictions** First, the possessive subject must be the main possessor:
(6) a. Zhangsan de didi de lian hong le.
   Zhangsan DE brother DE face red ASP “Zhangsan’s brother’s face becomes red.”
   b. *Zhangsan hong le didi de lian.
   Zhangsan red ASP brother DE face “Zhangsan’s brother’s face becomes red.”
   c. Zhangsan de didi hong le lian.
   Zhangsan DE brother red DE face “Zhangsan’s brother’s face becomes red.”

(6b) is excluded as Inch. always attracts the closest DE head to discharge its AFF. This also explains why the possessor must be alive, as in the contrast between (7a) and (7b):

(7) a. Zhangsan si le ranhou Zhangsan de lian momingqimiao-di hong le.
   Zhangsan die ASP then Zhangsan POSS face unknowingly red ASP
   “Zhangsan died and out of no reason Zhangsan’s face becomes red.”
   b. *Zhangsan si le ranhou Zhangsan momingqimiao-di hong le lian.
   Zhangsan die ASP then Zhangsan unknowingly red ASP face
   “Zhangsan died and then out of no reason Zhangsan’s face becomes red.”

This strongly indicates that Zhangsan bears an additional affectee role (Haspelmath 1999). In our account, this is because DE discharges the hidden affectee role in the inchoative head. Additionally, this also correctly predicts the possessum requirement in which body-part relation is preferred:

(8) a. *Zhangsan hong le erzi/tongshi.
   Zhangsan red ASP son/collleague “Zhangsan’s son/collleague becomes red.”
   b. Zhangsan hong le lian/jiao.
   Zhangsan red ASP face/foot “Zhangsan’s face/foot becomes red.”

In our account, DE raises to little \( v \) by way of \( V \) which is occupied by the adjective hong “red”. When DE is at \( V \), it discharges for the 2\( {}^{nd} \) time the theme role of hong “red” (despite being already saturated by Zhangsan’s face in the small clause). Thus, when Zhangsan moves cyclically up, it also saturates the theme role of hong “red” (resulting in double theme to hong “red”). This is reasonable as Zhangsan’s face becoming red entails Zhangsan’s becoming red, while Zhangsan’s son becoming red does not entail Zhangsan’s becoming red. (8a) is thus semantically ill-formed.

Finally, our proposal is consistent with the overt form:

(9) Zhangsan bian de hong le lian.
   Zhangsan become DE red ASP face “Zhangsan’s face becomes red.”

When the inchoative verb bian “become” is overtly realized, DE shows up.

**Significance** This proposal solves the theoretical conflict between raising and multiple theta roles, and provides a novel perspective on similar cases in a wide range of languages.

**References**