The Linguist's Linguist

A Collection of Papers in Honour of

Alexis Manaster Ramer

edited by

Fabrice Cavoto

München: LINCOM

2002

Covert Possessive Compounds in Hittite and Luvian*

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One famous feature of Hittite and its Anatolian relatives is that they appear to show productive compounding only in names (persons and places). Compounds in appellatives are surprisingly rare by the standards of ancient Indo-European languages. However, it is common in language change for compounds over time to become opaque and no longer synchronically analyzable. First or second members of compounds may lose their full lexical value and be reanalyzed as derivational affixes — becoming productive and capable of being added to bases which would have been semantically unsuitable in the original compounds. I hope to show that Hittite and Luvian have such indirect traces of compounding.

Hittite has a small set of stems in -ziena-: aliyanzina- (an animal, clearly derived from aliyan- 'deer'), ahvanzina- 'sorcerous, casting spells', araţizina- 'external, foreign', thu(wa)lpanzina- 'hump, embossment, protuberance'. The adjective araţizina- is derived from araţiz(a) 'outside', whose original form was *erhzii, permitting an analysis of the adjective as *erhzii-no-, with the well-known PIE secondary suffix *-no-3 The derivatives ahvanzātar 'witchcraft' and ahvanzatţir, 'bewitch' suggest that ahvanzina- may likewise reflect *ahvanī-no-4

Simple *-no- will not work for aliyanzina- and finvalpanzina-. The transparent source of the first is the n-stem aliyan-, and as established by Puhvel (1991: 424f.) that of finvalpanzina- is surely finvalpant- 'humpback(ed)'. We could derive the latter with a suffix *-fino-, but I know of no other evidence for this 'enlarged' form of *-no- in Anatolian, and this will not explain aliyanzina-. What is needed to cover both cases phonologically is an affix *-sino-, which would have produced -nts- when added to a stem in -n- or -nt-.

I am grateful to colleagues Ivo Hajnal, Norbert Oettinger, Karl Praust, and Elisabeth Rieken for very helpful advice. I alone, of course, am responsible for the views expressed here.

^{&#}x27;I cite the famous case of German -lich and English -by, a formation that began in bahuvrihis with lich=lic 'body' as second member, thus 'having the form/shape of'. It eventually became a productive derivational suffix with the much broader sense 'having the nature/quality of', as in German dußerlich 'external' < außer 'outside' or English overly < 'over' (see Kluge, 1899:111).

² Several of these stems are typically given as ending in -zena-, but there are no attestations in Old Hittite manuscripts, and the examples from Middle Hittite manuscripts show a mixture of -i- and -e- spellings: ahvanzinnuš and ahvanzinnuš (KBo 15.10 i 30 & 33) and aratzinan (IBoT 1.36 iii 35) versus aratzenaš (KBo 8.35 i 26). The only one of these words that occurs in assured Neo-Hittite compositions, aratzena-, has consistent e-vocalism there. This alternation of i and e recalls that in āšā- > ēšā- 'do, make' and the other examples cited in Melchert (1984: 133ff.). Rieken (1996: 294ff.) supports the claim of a sound change from i to e, but argues for a quite different conditioning from what I had assumed and cites examples to show that the change begins already in Old Hittite. Her account also faces some counterexamples, as she concedes, and the precise conditioning remains elusive. I note here only that her conditioning (lowering of i to e between dentals) also fits -zina- > -zena-.

³ As colleagues David Hawkins and Massimo Poetto have reminded me, this derivation of Hittite arabzinais supported by the apparent exact cognate HLuvian FINES+HL-ti-l-na /arhtina/ 'external(ty), abroad' in CARCHEMISH A6,2 (probably nom.-acc. pl. neuter functioning as an adverb).

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The only assured source of -z-([ts]) in Hittite is assibiliated *t before *t or *y. I will soon discuss the source of the base *ahvanit-elsewhere.

⁵ For secondary *-n+s- leading to -nls- in Hittite see Melchert (1994:121) with references.

A prehistoric suffix *-sino-, however, is highly unlikely. It cannot represent *-seno-, since posttonic short *\vec{e}\$ in open syllable leads to Hittite -a-, not -i- (see Melchert, 1994:137ff;, following Cowgill, contra Melchert, 1984:104ff.). There is in any case no basis for assuming that Anatolian ever had a suffix *-seno-.\(^6\) I therefore suggest that aliyanzina- and funvalpanzina- reflect possessive compounds with the noun \(^5\)ina- 'figure, figurine' as second member. This noun, attested consistently with i-vocalism in OH manuscripts, is later spelled \(^5\)ena-, presumably by the same change discussed above.

Specifically, I propose that *aliyanzina*- means 'having the form/shape of a deer, deer-like'. That the word is distinct from *aliyan*- itself is shown by their cooccurrence in KUB 30.36 ii 11-12, a passage whose precise meaning remains obscure. That *aliyanzina*- also refers to a cervid is confirmed by *aliyazemis karkidandus*' horned a.'s' (i 6-7).¹ The precise species designated by *aliyanzina*- eludes us. Likewise, *thuwalpanzina*- would have originally meant *having the shape/form of a humpback' (thuwalpant-), later substantivized to 'hump, embossment, protuberance'. Beside thu(wa)tpanzi/ena- we also find thulpanzana- (see Puhvel, 1991:424f). Since the accent in all these examples was surely towards the beginning of the word (hence consistently short -i- vs. simple šīna-), I find it likely that thulpanzana- reflects a variant with syncope of the -i-, with or without a new anaptyctic -a-.

One problem with my analysis is that it seems unlikely that such compounds would just happen to have been made only in cases where the first member ended in -n- or -nt-. One would expect to find at least a few examples showing directly -sina- as second member. In support of my proposal I can offer one tolerably certain example and another that seems very probable.

Hittite ^(GIS)kalmišina-/kalmišana- means 'fire-brand, burning log', also probably 'comet'. This word obviously is derived from kalmi-, attested twice, with a meaning impossible to distinguish from that of its derivative. Puhvel (1997:27), to whom I refer the reader for a summary of all the evidence, lamely analyzes kalmišina- as a 'thematized "animation" of a neuter heteroclite stem *kalmēšar (following already Kammenhuber). This derivation is quite impossible on both phonological and morphological grounds. First of all, the word is spelled overwhelmingly with single -š-, versus the invariant geminate of -eššar/-eššar/-eššan-. Second, there is no such process as 'animatizing' derivatives in -a- of -eššar/-eššar-. The alleged example of hatalkiš(na)- 'hawtlorn' is false: for the correct analysis of the latter see Watkins (1993).

I suggest we have rather another substantivized bahuvrihi: 'that which has the shape/form of a kalmi'. The original nuance that differentiated kalmišina- from kalmi- is unrecoverable, perhaps because the longer form competed with and largely ousted the base stem, a common occurrence. Once again, I take the variant kalmišana- as showing syncope, with or without subsequent

anaptyctic -a. Note that the earliest example attested, kalm Kaniš in KUB 17.10 i 6 (OH/MS), shows plene spelling of the -ī-, suggesting accent on the second syllable.

A second likely example of a compound reflecting directly the *s of the second member sīnais (DUG)tāpiša/ena-, the name of a vessel, probably a bowl, attested in Hittite ritual contexts. For a
summary of evidence for the word in its several variants see Goetze (1937:493, note 3), Bossert
(1954:272), and Tischler (1991:129-131). Bossert's attempt (1954:266ff.) to connect this word
directly with Hieroglyphic Luvian (CAELUM)ii-pa-s(a) 'sky, heaven' is no longer viable on
multiple grounds (see Tischler, 1991:130, and Starke, 1990:99²⁴⁶).

Hawkins (1993) offers a quite new perspective on this problem, based on a new HLuvian inscription on a silver bowl, where the inscribed object is referred to as zi/a CAELUM-pi 'this *tapi'. Hawkins properly compares the formal relationship of *tapi- and tapi-xana- to that of (GIS) kalmi- and kalmi-xana-, but is not explicit as to the status of the newly isolated *tapi- vis-\(\frac{a}{2}\)-vis the words for 'heaven, sl-y'. The word CAELUM-pi in context is a direct object, and *tapi- must thus be a neuter t-stem. The chances that such a stem represents a reflex of an inherited word for 'sky, heaven' seem very low.\(^{10}\) It seems more likely that a word for a kind of bowl, *tapi-, probably of non-Indo-European origin, was spelled with a 'rebus-spelling' CAELUM-pi, based on the associations between the notion of 'bowl' and the hieroglyphic sign for 'heaven, sky' as claimed by Bossert, which seem real enough (cf. note 9 and Hawkins, 1993:716).\(^{11}\)

In any case, the crucial point for our present purposes is the evidence of *tapi- (a kind of bowl) for a segmentation tapi-ša/ena- in the name for the Hittite ritual vessel, as per Hawkins. On this basis I suggest the same analysis as for kalmi-ša/ina-: tapi-ša/ena- is '(that) which has the shape of a tapi-vessel'. The precise difference in shape and function between the two is unknowable.¹²

⁸ Since this analysis does presuppose that the -s- came in contact with the following -n- at least at some point, the nearly complete absence of gemination is noteworthy. It suggests that the rule by which *s is geminated next to consonant, especially sonorant, in Hittite was not operative at the time of this syncope (on the gemination rule see Melchert, 1994:150ff., with references to Cop and Bernabé). The relative chronology of the gemination rule for *s and various syncope and anaptyxis rules needs further study (cf. my remarks on pišen-/pišn- in Melchert, 1994:174f.). As several reviewers have rightly noted, my treatment of anaptyxis and syncope in Hittie in the work cited leaves much to be desired.

One may still concede that the Luvians viewed the sky as an inverted bowl and that the hieroglyphic sign for 'heaven, sky' represents a bowl. And further that Luvian /tipas/ in the sense 'bowl' may be the source of Greek δέπας (thus Bossert, 1954:278ff', following Meriggi, and now Neu, 1999:619ff). But this is a quite separate issue from that of Hittite lapiša/ena-.

[&]quot;There are certainly reflexes of the PIE root *nebh- that do not show the s-suffix of Hittite nēpiš- and the Luvian cognates for 'sky, heaven', and probably in Anatolian. See Carruba (1998:75ff.) on CLuvian tapala-But a primary neuter i-stem *nóbhi- is very unlikely.

It is true, of course, that such a spelling for **tapi*- can hardly be based on *tipas*- with its divergent vocalism, but it is likely that HLuvian had several words transparently related to 'heaven' that began *tap' See the preceding note.

The most common variant of *iāpišana*- would, like *ţinvalpanzana*- and *kalmišana*-, reflect a **iāpi-sina*-with syncope of the second -*i*- vowel. The hapax variant *ta-a-pi-ša-a-ni-it* (*KUB* 9.17,5) with its unique plene spelling of the second -*a*-, does not contradict this derivation, since it occurs in a NH manuscript that is probably a copy. The plene spelling does suggest that the second -*a*- is at least linguistically real and thus a new anaptyctic vowel (cf. the comments above on *ţinvalpanzana*-). The spellings with -*še-(e)-na*- may be taken as reflecting the expected form **iāpišina*- (cf. *kalmišina*-) with the change of *i* to *e* cited above for *šīna*- isself and other words of similar shape. The one-time plene spelling of the -*e*- in a NH copy

on principle such a suffix could be analyzed as *-sen-o-, beed on the oblique stem of a heteroclite suffix *-sy/-sen-, but there is in turn no evidence in Anatolian for such a heteroclite suffix (as opposed to *-esy/-esn-!).

⁷ As already seen by Puhvel (1997:89), the Hittite adjective karkidani- is manifestly an adjective with 'possessive' -ani- formed from a base *karkid- 'horn'. As N. Oettinger reminds me, the suffix recalls HLuvian zii+rai-ni- 'horn' from pre-Luvian *kin-id- (for the stem see Starke, 1990:406ff; for the phonology Melchert, 1994:234 and 260). In fact, the two may be perfectly superimposed, starting from a preform *king-id-. The Hittite shows non-writing or actual loss of the -n- in the cluster -rnk-, while *g undergoes regular palatalization and loss before *i in Luvian (see Melchert, 1994:254, following Kimball). For the base *king(o)- compare of course Sanskrit singa- 'horn'.

does support the analysis presented here for -zina- in aliyanzina- and ljuwalpanzi/ana-. While we case of a substantivized bahuvrihi with second member šīna-. I believe that kalmi-ši/ana- at least segment tapiša/ena-. For this reason I cannot characterize this example as more than a probable "individualizing" function) does suggest a base *tapiš(a)-, reviving the problem of where we should contexts means the same as tapisa/ena-. Abstraction of the suffix -ant- (probably in its attested in KBo 3.43,12 ta-pi-ša-an-du-uš and KUB 34.117,6 ta-pi-ša-an-ti-it, which per the the original status of these as compounds for the Hittites as they did for us. cannot be certain, it seems likely that in at least the latter two cases phonological changes obscured Only one factor introduces some doubt about the analysis as tāpi-ša/ena-: the stem tapišant-

similar case in Luvian. In Melchert (1983:139-141) I analyzed "Hittite" kiklubaššari- 'iron ring' rather isolate a stem kikluba- 'iron' (or better 'steel'). This accounts straightforwardly for the compounds or in reanalyzed form as a suffix. 13 I suggest, however, that this did take place in a denominative verb *kiklu/iba(i)-.14 adjective (cf. armannaima/i- 'decorated with lunulae' < armanna/i- 'lunula') or the participle to a derived Luvian adjective kiklibaima/i- 'iron/steel-coated', which is either a direct denominative Puhvel (1996) justly criticized this analysis on several grounds and demonstrated that we must *'circle', which I viewed as indirectly attested in paššari- 'circumcised' < *'having a circle' (which appears once in a trilingual literary text) as a compound of *kiklu- 'iron' and passari-There is no evidence that Hittite -s/zina- (-s/zana-) ever became productive, either in

unitary suffix, it is descriptively deverbative: see Neumann (1958) and Melchert (1999:365ff.) denominative noun-forming suffix -ri- in Hittite or Luvian. To the extent that -ri- is a productive There are no probative examples from an adjectival stem. We sorely need an alternative solution. -ašša- plus an "object" suffix -ri-. The former is fine, but there simply is no secondary Puhvel's analysis of the rest of kiklubaššari- is far less persuasive: the appurtenance suffix

even 'seal impression'). Since we have other evidence that the word is Luvian, I propose that we seal-ring (the Sumerian text has *šugur* 'finger-ring'), we must also consider the possibility that rightly entitles his article. Given the range of meanings of Akkadian unqu, the Hittite word as of Hittite $\bar{e}\tilde{s}\tilde{s}(a)ri$ - 'image' < *'essence' < $\bar{e}\tilde{s}$ - 'be'. The word means 'signet of steel', as Puhvel have a compound kikluba- 'steel' plus *ass(a)ra/i- 'image', the latter the precise expected cognate but rather a seal-ring, a signet (the Akkadian equivalent unqu means 'seal-ring', 'stamp-seal' or kikluba-(a)ššara/i- is a substantivized bahuvrihi 'that which has an image of steel' > 'signet ring'. attested could be a determinative compound 'image of steel'. However, since the reference is to a Puhvel himself provides the key when he stresses that kiklubaššari- is not an ordinary ring,

secondary suffix -as(sa)ra/i- or -ast(a)ra/i-, seen in CLuvian NAIkuttassara/i- 'orthostat' The latter analysis provides a plausible source for the otherwise problematic Luvian

(KUB 34.117,7 la-a-pl-še-e-nu-uš) may or may not show a real consciousness of a connection with the

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explain the source of the latter as thematized from the heteroclite suffix -exxar/-exxn- seen in Hittite (1965:84ff.), the variant -stra'i- is derived from -s(s)ra'i- by epenthesis. However, his attempt to hattaštar(r)a/i- 'violence' (both with cognates in HLuvian), and others.16 As per Neumann is very problematic. See the valid objections of Starke (1990:384f.).

substantivized bahuvrihis * (that which) has the form of a wall, wall-like; just like kikluhaššara isa-na-wa/i-sa-tara/i- 'goodness' < sa-na/-wa/i- 'good'). reflect a use of /-as(t)ra/i-/ to form abstracts directly from both nouns and adjectives (e.g. HLuvian since virtually all the examples attested are abstract substantives, it is likely that most of these As in the case of German -lich. -as(sa)rai- later became productive as a secondary suffix. Indeed. I suggest that an example such as kuttaššara/i- 'orthostat' reflects the origin of this type as

loanword from Luvian.¹⁷ A Luvian source for the only other such stem in Hittite, šakuvaššar(a). but nothing about either the shape of the word or its pattern of occurrence precludes its being a household' (on which see Melchert, forthcoming). This word occurs thus far only in Hittite form, there is in Luvian, argues for a Luvian origin. uncertain. 18 The fact that there is no identifiable class of such stems in -(a)ššara- in Hittite, while 'whole, integral' is also possible so long as the source and status of the base *sakinva-remains Use of -ašší(a)ra/i- to form adjectives is probably reflected in damnaššara- 'domestic, of the

Anatolian once had nominal compounding as a more productive process than we had previously If the derivations just suggested withstand further scrutiny, we are led to suppose that

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simplex noun šīēna-.

13 Contrary to what I unwisely tried to claim in earlier versions of this paper.

14 As per Puhvel, the alternation ui in kiklubaššari- vs. kiklibaimai- is not problematic: cf. the examples

hapax. If the accent of the compound was on the first member, the long vowel of *āššari- would have been given in Melchert (1994:178).

The lack of plene spelling of the first -a- in kiklubaššari- is hardly problematic, given that the word is a shortened anyway.

speech. The textual occurrences demand animate substantives ending in -rafi-16 See Starke (1990:384ff. & 419ff.) for the full material, but with a false analysis of stem, gender and part of

contrary to previous claims. As shown by Starke (1990:passim), Luvian influence on Hittite is attested from the Old Hittite period.

¹⁸ My derivation from Hittite šākīnva- 'eye' in Melchert (1993:107f.7) is very difficult semantically, despite

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The Role of Ockham's Razor in Historical Linguistics

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Abstract

Ockham's Razor, or the principle of parsimony, is one of the most basic concepts in historica linguistics, as well as other disciplines. But our empirical knowledge of language developmen shows that in practice language change rarely follows the most economical path of diachronic steps. The value of Ockham's razor, then, is to force us to make broader, but simpler assertions, which are more vulnerable to refutation. The more a statement is subject to refutation, the more confidence we may place in it. A further benefit of parsimony is that it allows us to see the developments with which we are concerned in the largest possible context.

In addition, we must distinguish between the often contradictory claims of parsimony o entities (minimizing the distinctions in a reconstructed proto-language) and parsimony o occurrences (minimizing the number of diachronic steps separating our reconstructions from the attested forms that underlie those reconstructions). Either of these can be simplified by making the other more elaborate. Therefore, the value of Ockham's Razor is not as a statement of historica fact, but as a methodological tool to increase the confidence we can place in our assertions.

The principle known as Ockham's Razor, often phrased as, "entia non sunt multiplicand praeter necessitatem" (entities are not to be multiplied beyond necessity) is often stated as one of the primary tenets of historical linguistics (e.g. Hock 1986:538 and passim), and indeed in any branch of reasoning. But reconstructing the development of a language or language family in the most economical manner does not reflect the way languages change in real life. When we have sufficient written records to allow us to see the development of real languages or language familie over time, we inevitably find that language does not develop in the simplest conceivable manner but often changes from one synchronic state to another, possibly similar, state by way of unexpected detours. Cases in which we have the empirical evidence to see that Ockham's Razor would have led us astray are commonplace, as in the following examples.

If we attempt to reconstruct the gender system of Latin on the basis of the Romanc languages, Ockham's Razor will mislead us. As we know, the modern Romance language collapsed (broadly speaking) the inherited Latin masculine and neuter genders into a singl masculine category. Thus, the evidence of the Romance languages does not justify reconstructin the three distinct genders that we know characterized Latin.

When two of three genders (or any other morphological category) are combined, we migh expect to see surviving evidence of the earlier state in their later distribution. That is, the resultin gender of mixed origin might occur with inordinate frequency, indicating that it represented mor than one source. But since the majority of Latin nouns were feminines in the highly productive thir declension, masculine nouns do not outweigh the feminines in the modern Romance languages. I this case, the use of Ockham's razor would focus on minimizing the number of distinctions in th reconstructed language, which we know is incorrect.