

From Infinitives to Deverbal Nominals in the Language of Orkhon Inscriptions

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Abstract: Although inflection and derivation are two different morphological processes, there is not a strict distinction between them. Even in the modern Turkic languages some inflectional suffixes can be used for word-formation purposes and vice versa. Diachronic analysis of Orkhon Inscriptions and modern Turkic languages illustrates transformation processes from inflectional to derivational suffixes. However, it is not the only possibility, because with the increase in productivity and grammaticalization of meaning, derivational suffixes, especially deverbal nominal-forming suffixes in the language of Orkhon Inscriptions began to be used as the means of verbal inflection in the modern Turkic languages. This article focuses on the grammaticalization of the deverbal nominal suffixes in Turkic languages, and argues that the beginning of this process was registered in the language Orkhon Inscriptions. This study aims to prove that suffixes of infinitive were originally derivative suffixes making nouns and adjectives from verbs.

Keywords - *Derivation, Grammaticalization, Inflection, Lexicalization, Old Turkic, Turkic Languages*

I. INTRODUCTION

Being among the oldest written monuments of Turkic languages, Orkhon Inscriptions are very important for turkological studies. The language of the Inscriptions demonstrates some interesting word-formation features like lexicalization and grammaticalization of derivative suffixes. These processes are found especially in deverbal noun- and adjective-forming suffixes. Analyses show that some of the deverbal derivative suffixes are used as the suffixes of infinitive. The suffix *-iř*, for example, is one of the most productive noun-forming suffixes in modern Turkic languages, though the development of this morpheme was not that smooth. It comes from the suffix of reciprocal voice. However, it later turned into the suffix of noun-formation, and finally, became the suffix of verbal nouns in modern Turkic languages.

II. FROM DEVERBAL NOUNS TO VERBAL NOUNS

The suffix *-iř* is an example of lexicalization in Orkhon Inscriptions. *-iř* came from the suffix of reciprocal voice. There are a lot of nouns in modern Turkic languages that are formed by the means of the suffix *-iř*, and they have various meanings. But the number of the nouns with this suffix is very restricted in Orkhon Inscriptions, and they are identical to one another for their meanings, three of them have the meaning 'war, fight', which is the name of the reciprocal process. And it proves that the suffix *-iř* itself has reciprocal meaning. For instance, the noun *uruř* means 'war, fight', but its root, the verb *ur-*, only means 'to beat', i.e. it does not have any reciprocal meaning. So we can assume that the element that gives reciprocal meaning to this word is the suffix *-uř*. It proves the claim that *-iř* originated from the morpheme of reciprocal voice. The language of Orkhon Inscriptions reflects this process perfectly.

The investigation of the word-formation processes in Turkic languages from Orkhon Inscriptions to modern Turkic languages helps identify three stages in the development of the suffix *-iř*. These are given below:

1. It occurs only in the nouns that are homonyms with the verbs. In this stage, the words with *-iř* depicted the names of reciprocal processes.

2. It is used as an independent noun forming suffix. In this stage the nouns with *-iř* depicts not only the name of process, but also the name of the person, the argument of the process, the result of the process and so on. Most of these words did not even have reciprocal meaning.

3. It is used as the suffix of verbal nouns. In this stage, *-iř* came closer to grammatical suffixes, and was able to be added to every verb.

The first stage is reflected in the language of Orkhon Inscriptions, the second one cover the period starting from the Middle Ages, while the last one continues in some modern Turkic language, such as Uighur, Uzbek, Turkmen, Kirgiz, Altai, and Turkish.

As it was mentioned above, there are few nouns formed with the suffix *-iř* in the language of Orkhon Inscriptions. It would be useful to analyze these nouns before giving the examples from modern Turkic languages:

1. *Uruř* ‘fight, war’. This noun was registered only in one example:

Eb-kä tög-dük-im *uruř* qıl-ıp (Ongin front 10)
Home-DAT reach-PTCP-POSS.1.SG fight do-PST
‘I fought when I reached home’

This word comes from the verb *ur-* ‘to beat’, and it is the homonym of the verb *uruř-* ‘to fight’ [1: 616]. Though *uruř* was not used as a verb in Orkhon Inscriptions, it occurs in the later stages of the Turkic languages. It makes us to think that the verb *uruř-* was already used in the 8th century, but was not registered in the Inscriptions because of the small number of monuments. In *Oghuzname*, the written material of the 13th century the noun *uruřyu* is used instead of *uruř* [1: 616]. It proves that *uruř* was considered as a word depicting a motion, not a name of a process.

2. *Sünüş* ‘fight, war’. This noun is registered only five times in the inscription of Kuli Chor:

Besbalıq-da tört *sünüş* sünüş-dük-dä Küli çor opla-yu tög-
ip bulya-yu... (Kuli chor 11)

Besbalik-LOC four fight fight-PTCP-LOC Kuli Chor rush-CVB reach-CVB
mix up-CVB...

‘When they fought four times in Besbalik, Kuli Chor reached quickly and mixed up...’

Sünüş bol-sar, çäri-g it-är er-ti... (Kuli Chor 9)

War be-COND army send-FUT AUX-PST...

‘If there is a war, he would send an army...’

However, its verbal homonym was wide-spread in Orkhon Turkic:

...qayan-in birlä Soņa yış-da *sünüş-di-m* (Bilge Kaghan east 26-27)
...kaghan-POSS.3.SG with Sona forest-LOC fight-PST-1.SG

‘I fought with their kaghan in the Shantun forest’

...alp-in ücün Tabyač-qa yeti yegirmi *sünüş-di*,
Qıtay-qa yeti sünüş-di, oğuz-qa bis sünüş-di (Tonukuk 49)

...gallant-3.SG for Tabghach-DAT seven twenty fight-PST

Kitay-DAT seven fight-PST oghuz-DAT five fight-PST

‘...as he was gallant, he fought seventeen times against Tabghach, seven times against Kitay, five times against Oghuz’

It is not clear from what word exactly *sünüş* was formed, but it is known that the root of this word is the noun *sü* ‘army’. For Sir Gerard Clauson, *sünüş* comes from the verb **sün-* [2: 842]. The noun *sünüg/sünü* ‘spear’ [1: 517] also formed from the same verb.

3. *Tägış* ‘encounter with the enemy, fight’. This word is used only in one example in the inscription of Kul Tigin:

Sü *tägış-in-tä* yitinč är-ig qılıçla-dı (Kul Tigin north 5)
Army encounter-3.SG-LOC seventh man-ACC sabre-PST

‘He sabred the seventh man in the encounter of the armies’

The noun *tägış* ‘encounter, collision, hostilities’ was also recorded by Gerard Clauson [2: 487]. The use of possessive suffix and the suffix of locative case prove that it is a noun, not a verb. This word also has a verbal homonym: *tägış-* ‘to fight’ [1: 548]. The root of these words is the polysemantic verb *täg-* with one of its meanings being ‘to attack’ [2: 476]. We come across with this meaning in Orkhon Inscriptions:

Nä basın-alım, *täg-älim*, – tidim (Tonukuk 39)
What be_defeated-IMP.1.PL attack-IMP.1.PL say-PST

‘Why should we be defeated, let us attack, said I’

The words *tägış-* and *tägış* are formed from this meaning.

All of these words have the same meaning: ‘war, fight’. However, there is another word with the suffix

-iř:

4. *Üküř* ‘many, much’. This word is used in several sentences:

Üküř öl-täči an-ta tirilti (Bilge Kaghan east 31)
Many die-FUT that-LOC that-LOC return to life-PST

‘Many who will die, returned to life there’

Yabız bat biz, azıγ *üküs-ig* körtig irti, sülätim
tir ermis (Ongin front 7)

Weak bad we few-ACC many-ACC see-PST AUX-PS march-PST-
1.SG say-PRS AUX-PST

‘We are weak and bad, we saw few and many, I marched, said he’

This word is from the verb *ük-* ‘to collect, to gather’:

Kälir ersär, kü är üküü-ür (Tonukuk 32)
 Come-PRS AUX-COND, noise man gather-PRS
 ‘If he comes, the men will gather because of the noise’

Unlike the other words formed with *-iř*, *üküüř* is not a noun and does not have a reciprocal meaning. It can be accepted as a sign of beginning of the second stage.

The second stage of the development of the suffix *-iř* came after the period of Orkhon Turkic. In this stage, a lot of nouns were made of the verbs with this suffix as an analogy of the previous nouns with *-iř*. *-iř* began to act as an independent noun forming suffix.

There are a lot of nouns with *-iř* in *Divanu lughat it-turk* which do not have any reciprocal meaning, e.g. *alqıř* ‘blessing’, *qarıyıř* ‘curse’, *ülüř* ‘part’ [3: 133]. It proves that the language of this written monument belongs to the second stage. The word *ülüř* ‘part’ is more important, because it formed after the period of Orkhon Turkic. In the language of Orkhon Inscriptions, the word *ülüg* is used instead of that word:

İki ülüg-i atlıy er-ti, bir ülüg-i yadağ er-ti (Tonukuk 4)
 Two part-POSS.3.SG with_horse AUX-PST one part-POSS.3.SG infantry AUX-PST
 ‘Two parts of them were cavalry, one part was infantry’

It also shows that *-iř* then developed as a noun forming suffix, and it became a common derivative suffix, and used instead of *-ig*.

In the later periods of Turkic language history, the nouns with *-iř* was used widely, like *oqřař* ‘similarity’, *yügrüř* ‘running’, *olturuř* ‘assembly’ [4: 150]. This process continued in modern Turkic languages: *ayanıř* ‘pity’ (ayan- ‘to pity’), *ökinıř* ‘sorrow’ (*ökin-* ‘to grieve, to sadden’), *ötiniř* ‘proposal’ (*ötin-* ‘to ask, to beg’) (Karakalpak) [5: 409]; *alıyıř* ‘blessing’ (*alqa-* ‘to bless’), *ülüř* ‘part’ (*üle-* ‘to divide’), *žuuař* ‘calm’ (*žuua-* ‘to calm down’) (Karachai-Balkar) [6: 142-143]; *adıř* ‘shot’ (Altai); *talař* ‘quarrel’ (Bashkir); *soruř* ‘question’, *oturuř* ‘assembly’ (Gagauz), *küriniř* ‘view’ (Tatar); *tiniř* ‘breath’ (Tuva) [13: 164]; *kiriř* ‘entrance’ (Uzbek), *öriniř* ‘happyness’ (*örin-* ‘to be happy’) (Khakas), *uçuř* ‘flight’ (Kirgiz) [7: 107]; *žeř* ‘food’ (*že-* ‘to eat’) (Kirgiz), *pëlterëř* ‘meaning’ (*pëlter-* ‘to mean’) (Chuvash) [4: 145]; *gaçıř* ‘running’, *gülüř* ‘laughter’, *gediř* ‘going’, *güliř* ‘coming’, *yeriř* ‘walking’ (Azerbaijan), *duruř* ‘standing’ (Turkish).

In Orkhon Inscriptions the suffix *-iř* combines two meanings:

1. Reciprocal action;
2. The name of the process.

However, in the modern Turkic languages, the range of the meanings formed with *-iř* is much larger:

1. Name of an action being done by two or more people: *sox-* ‘to beat’ – *soyıř* ‘fight’ (Khakas), *qırq-* ‘to break, to destroy’ – *qırqıř* ‘fight’ (Yakut).
2. Name of an action: *araçılan-* ‘to defend’ – *araçılanıř* ‘defence’, *xoptan-* ‘to complain’ – *xoptanıř* ‘complaint’ (Khakas).
3. Process of an action: *püdir-* ‘to build’ – *püdiris* ‘construction’, *pizir-* ‘to cook’ – *piziris* ‘cooking’ (Khakas).
4. Result of an action: *qırbaa-* ‘to cut into pieces’ – *qırbař* ‘steak’ (Khakas) [8: 67], *düzäliř* (Azerbaijan).

As it was already mentioned, in some modern Turkic languages including Uighur, Uzbek, Turkmen, Kirgiz, Altai, and Turkish, the suffix *-iř* is more productive, and it can be added to every verb, that’s why it is regarded as a suffix of verbal nouns. Nouns with this suffix are similar to infinitive, for instance, *keliř* ‘coming’, *biçiř* ‘writing’, *tipildeř* ‘beat’, *uçuř* ‘flight’, *tasqadınıř* ‘training’ (Altai) [9: 671-672]. M.Ergin saw a difference between the nouns with *-iř* and other deverbal nouns, and included it to the same row with the suffixes *-maq/-mek* and *-ma/-me*. He called them the suffixes of verbal nouns, and noted that they have a meaning not of an object, but work: *alıř*, *geliř*, *arayıř*, *söyleyiř*, *oturuř*, *okuyuř*, *öksürüř*, *yürüyüř* [10: 187]. It can also be added to the verbs with negative suffix, i.e. *bilmeyiř* ‘not knowing’ [11: 117], which is not typical for derivative suffixes. We can call it the third stage of the development of the suffix *-iř*. In this stage, *-iř* increased its productivity, began to be added to every verb, and became a suffix of verbal nouns.

III. FROM DEVERBAL NOUNS TO INFINITIVE

maq/-mek is the main suffix of infinitive in the modern Turkic languages. However, in the earlier stages of Turkic languages, it did not form infinitive and served as a morpheme making nouns from verbs. It was only used once in Orkhon Inscriptions, in the noun *armaq* ‘lie’ which was the base of *armaqçı* ‘liar’:

...tabğaç bodun täbligin kürlig üçün, armaqçısin üçün... (Kul Tigin east 6)
 ...Tabghach people sly cunning for liar-POSS.3.SG for...
 ‘...because Tabghach people were sly and cunning, because they were liars...’

There are a lot of nouns made from verbs by the means of *-maq* in the Old Turkic language, for example, *uqmaq* ‘mind, wit’ (*uq-* ‘to understand’), *tüzülmäk* ‘silence’ (*tüzül-* ‘to get right’), *tutmaq* ‘handle’ (*tut-* ‘to catch, to hold’) [12: 53]. It is also typical for *Divanu lughat it-turk*: *çaqmaq* ‘flint’, *boymaq* ‘shirt button;

necklace', *qışmaq* 'lasso', *toqımaq* 'mallet' [3: 132]. But it is not unique for Old Turkic, as this suffix is also used in some modern Turkic languages as a deverbal noun-forming suffix, i.e. *qospaq* 'combination' (*qos-* 'to connect'), *žarıspaq* 'contest, competition' (*žarıš-* 'to compete') (Karakalpak) [5: 391]; *batmaq* 'marsh' (*bat-* 'to sink') (Karachai-Balkar) [6: 221]; *atışmaq* 'exchange of fire' (*atış-* 'to exchange fire'), *üyşmek* 'assembly' (*üyş-* 'to gather') (Turkmen) [4: 305]; *yemäk, çaxmaq* (Azerbaijani).

Many turkologists including E.V. Sevortyan assume that the derivative function of the suffix *-maq* comes before its grammaticalization [4: 221]. The condition of the suffix *-maq* in most modern Turkic languages, except Azerbaijani and Turkish [13: 159], proves that it was a derivative suffix originally. It also makes the ideas that infinitive was not developed in the early stages of Turkic languages [14: 483], and it is only typical for the languages in Oghuz group [15: 170].

It is from the verb *ar-* 'to lie, to deceive':

Süçig sabın,yımşaqayınar-ıpiraq bodunıy ançayayutirermis (Kul tigin south 5)

Sweet word-INS valuable gift-INS deceive_CVB far people-ACC that bring_closer-PRS AUX-PST

'They brought closer the people that were far away deceiving them with their sweet words and valuable gifts'

The noun *armaq* was registered in the other written monuments as a part of the construction *ezük armaq* 'lie, mistake' [1: 192].

The use of the derivative suffix *-çi* after the suffix *-maq* proves that it was a derivative suffix, since derivative suffixes cannot be added after inflective ones.

Another suffix in this category is *-ma/-me*. This suffix is genetically related to *-maq/-mek*, but it is unclear whether *-ma* comes from *-maq*, or on the contrary *-maq* from *-ma*. This question is not settled yet.

Like *-maq*, the suffix *-ma* was also an unproductive derivative suffix in Old Turkic language. In *Divanu lughat it-turk*, it was used only in few examples, including *süzma* 'condensed sour milk', *käsmä* 'bangs', *tügma* 'button' [3: 132]. It started to be used widely in the written monuments of the 14th century [4: 139].

-ma and its phonetic variations are very productive as deverbal noun-forming suffixes in the modern Turkic languages, for instance, *dörötpə* 'creativity' (*döret-* 'to make, to create'), *aralaspə* 'mixed' (*araläs-* 'to mix'), *tapsırma* 'task' (*tapsır-* 'to charge'), *körsetme* 'instruction' (*körset-* 'to show'), *dizbe* 'list' (*diz-* 'to arrange') (Karakalpak) [5: 393]; *sürmə* 'smoothing plane' (*sür-* 'to scrub') (Karachai-Balkar) [6: 264]; *känäşmä* 'conversation' (Bashkir), *doquma* 'knitting' (Gagauz), *uydırma* 'function' (Uzbek), *çarba* 'cereals' (Khakas) [13: 163]; *birlaşma* 'combination' (Uzbek), *üşme* 'drink' (Chuvash) [4: 132, 134]; *dolma, qovurma* 'roast', *qazma* 'mud-hut' (Azerbaijani), *dondurma* 'ice-cream', *qızartma* 'roast', *qıyma* (Turkish).

-ma/-me can also act as a synonym of the suffix *-maq/-mek* in Azerbaijani and Turkish [13: 163] which makes it the suffix of infinitive. It can also be added to the verbs with negative suffix, proving that it has inflectional function, instead of a derivational one.

There are only two nouns formed with the suffix *-ma/-me*, though the origin of the second one is dubious.

Yelmä 'intelligence group':

Yelmä, qarayı edgüti ur-γıl, basıt-ma, – ti-mis
(Tonukuk 34)

Intelligence_group guard well beat-IMP.2.SG be_defeated-NEG say-PST

'Set up the intelligence groups and guards well, do not be defeated, said he'

This noun is from the verb *yel-* 'to gallop, to go fast' [1: 254]:

Kün yämä, tün yämä yel-ü bar-dı-mız (Tonukuk 27)

Day too night too gallop-CVB go-PST-1.SG

'We went galloping day and night'

Yalma 'cloth, cloak':

Yaraq-in-ta yalma-sin-ta yüz artuq oq-un

ur-ti... (Kul Tigin east 33)

Weapon-POSS.3.SG-LOC cloth-POSS.3.SG-LOC hundred more arrow-INS

shoot-PST

'He shot more than hundred arrows to his weapons and cloths'

For Sir Gerard Clauson, the root of this noun is the verb **yal-* which also occurred in *yalıñ* and *yalt* 'bare, naked' [2: 918, 922, 929]. There is also the verb *yalın-* 'to undress' [1: 229] which can be considered as the reflexive voice of **yal-*. Although there is phonetic similarity in these words, the semantic relation is not clear.

IV. CONCLUSION

Grammaticalization of the derivative suffixes is possible for the Turkic languages, just as the lexicalization of the inflectional ones. While the reason of the transformation from inflection to derivation is

petrifying of the grammatical form as an independent word, the main reasons of the change from derivation to inflection is increase in the productivity of the suffix. As a suffix begins to be added to every word from the same class, its derivational meaning disappears and turns into a grammatical one. This is a common process in the suffixes of verbal nouns, infinitives and participles, and the earliest traces of this process in the Turkic languages belong to the language of Orkhon Inscriptions.

There is also another opinion on this matter which claims the similarity of the functions of inflectional and derivational suffixes in the earliest texts of the Turkic languages [16: 5]. It is proved with the examples given from Orkhon Inscriptions.

REFERENCES

- [1] Nadelyayev V.M. et al. (Eds.). *Drevnetyurkskiy slovar'* (Leningrad: Nauka, 1969).
- [2] Clauson G. An etymological dictionary of pre-thirteenth-century Turkish (Oxford: Clarendon Press, 1972).
- [3] Äskär R. *Mahmud Kaşyarinin "Divanu luyat-it-türk" äsari üzrâ bibliografik vâ grammatik göstârici* (Baku: MBM, 2008).
- [4] Sevortyan E.V. Affiksi imennogo slovoobrazovaniya v azerbayžanskom yazıke: opit sravnitel'nogo issledovaniya. Moskva: Nauka, 1966.
- [5] Baskakov N.A. *Karakalpakskiy yazik. Tom II. Fonetika i morfologiya. Čast' pervaya. Časti reči I slovobrazovaniye* (Moskva: Izdatel'stvo AN SSSR, 1952).
- [6] Khabičev M.A. *Karačayevo-balkarskoye imennoye slovoobrazovaniye* (Čerkessk, 1971).
- [7] Serebrennikov B.A., Gadjiyeva N.Z. *Sravnitel'no-istoričeskaya grammatika tyurkskix yazıkov* (Baku: Maarif, 1979).
- [8] Tarakanova I.M. *Slovoobrazovaniye imen sušestvitel'nix v xakasskom yazıke (v sopostavitel'nom aspekte)* (Xakasskoe knižnoe izdatel'stvo, 2008).
- [9] Tidikova, Nadejda. Ob osobennostyah imeni deystviya v altayskom yazıke, *Turkish Studies, Vol 2/2, 2007, 665-679*.
- [10] Ergin M. *Türk dil bilgisi* (İstanbul: Bayrak, 2013).
- [11] Kononov A.N. *Grammatika sovremennogo turetskogo literaturnogo yazıka* (Moskva-Leningrad: Izdatel'stvo Akademii Nauk SSR, 1956).
- [12] Gabain A. von. *Eski Türkçenin Grameri*. Translated by M.Akalin (Ankara: Türk Tarih Kurumu Basimevi, 1988).
- [13] Scherbak A.M. *Očerki po sravnitel'noy morfologii tyurkskix yazıkov: imya* (Leningrad: Nauka, 1977).
- [14] Tenishev E.R. (Ed.) *Sravnitel'no-istoričeskaya grammatika tyurkskix yazıkov. Morfologiya* (Moskva: Nauka, 1988).
- [15] Dmitriyev N.K. *Grammatika başkirskogo yazıka* (Moskva-Leningrad: Izdatel'stvo Akademii Nauk SSSR, 1948).
- [16] Bašdaş, Cahit. *Türkçede üçüncü grup (araekler)*, http://turkoloji.cu.edu.tr/DILBILIM/cahit_basdaz_ara_ekler.pdf.