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Gani Pllana¹ (D Sadete Pllana² (D Motivation of word-group (word combination) terms in the terminology of mechanical engineering in Albanian in relation with English

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Abstract. In a terminological word-group (word combination), the combining capacities of both the main (defined) element of the term and its defining element are realized. The characteristic of unambiguity in general is acquired by the term phrase also outside the terminological system, therefore it has precedence over the one-word term, because it acquires the characteristic of unambiguity even outside the system of its field.

The motivation of word-group (word combination) terms can also be viewed in terms of the source composition of their elements, as each element may have different degrees of motivation depending on its origin. Thus, for example, a phrase composed of combinations of foreign terms with Albanian ones, may have different degrees of motivation, when it may contain only Albanian or foreign terms. On the other hand, motivation also depends on which constituent element of the phrase is transparent (clearer or more accurate), i.e., the defined or the defining element.

Most of the terms are motivational in their conceptual content, which means that each term has a base from which it originates and just in the way the base is developed, so it developed as well it is content. However, one part of terms derive from common words and enter a knowledge field according to the quality of the term, while maintaining the conceptual content, e.g. its content as a word or as a term is more or less the same. Here we are dealing with same concepts that pass from a low conceptual level (as a word) to a higher conceptual level (as a term). Thus, for example, can be considered a number of terms as: $der\ddot{e}$ (door), dritare (window (const.)). It should be noted here that each of them develop further as: dritare (e kompjuterit) (window (of computer)); dritare (fryrjeje) (window (aircontrol)); $der\ddot{e}$ ($nd\ddot{e}rtese$) door (building) and $der\ddot{e}$ (furre) door (oven).

Keywords: Motivation of word-group (word combination) terms; Terminology; Mechanical engineering; Albanian language; English language

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Introduction

Special works and monographs have been written on sustainable phrases in terminology. It is worth noting that for a long time as separate categories in the lexical system as naming units not only phraseological phrases, other sustainable phraseological) phrases, mainly of the nominal type have been distinguished. Thus, in the monograph "Çështje të frazeologjisë së gjuhës shqipe" [Issues of phraseology of the Albanian language] J. Thomai (1981: 74) notes: Phrases bombë dore [hand grenade], bibliotekë kombëtare [national library] etc., mentioned here and there, as it is well known, are sustainable phrases, but not of the phraseological type. They are considered "as compound nouns and function as single part of the sentence" (Thomai, 1981:133).

Later, these phrases were used in lexicographical works, and especially are widely given as illustrative tools, and in special cases as a separate unit in the Dictionary of Today's Albanian language [Fjalorin e gjuhës së sotme shqipe] (1980).

Likewise, they are widely given in the dictionary [Dictionary of basic terms of me-Albanian-English-French-Italianchanics Russian] even the most specific terminological phrases. For e.g.: for trup-body we meet: trup i ngurtë - rigid body; trup solid- solid body, trup i lëngët- liquid body, trup i gaztëgaseous body (phyis.), trup giellor - celestial body (anat.), trup i plugut-plough body (agri.), trup i fjalës-words body (ling.), trup diplomatic- diplomatic corps (dipl.), trup gjykues- trial panel (law.), etc.; for trungtrunk we distinguish: trung nervor- nervous trunk, trung i aortës- aortic trunk (med.), trung koni-frustum of a cone, trung piramidetruncated pyramid, trung prizmi - truncated prism (geom.).

As M. Samara points out, "a great lexical wealth has been created by sustainable phrases, especially in the field of sociopolitical lexicon", which today is one of the fields with the richest terminology in our language and with more research interest (Samara, 1972:281). In the cited paper only with the

adjective *political* - there are about 80 examples of phrases, mainly sustainable from the field of political-social lexicon.

Until nowadays, a large number of terminological dictionaries have been compiled. A large number of phrase terms are given in these dictionaries. Thus, for example, only in the Dictionary of Mathematics "23% are two-part terms" (Lafe, 1972: 320). Phrase terms also occupy a large place in other dictionaries. In the dictionary of architecture with the term *stil-style* 34 phrases are given, with the term *mur-wall* 33, with the term *shtyllë - column* 28, with the term *qemer- archway* 23 etc.

Working methods

In order to argue and illustrate the ideas in the paper, we relied on the material extracted from the literature, as well as from basic textbooks and technical standards and basic works by Thanas Gaçe (1983) and P. Karaulli & G. Çelo (1974).

The lexical material, which was taken from various terminological dictionaries (The Polytechnical and Technical Dictionary, as well as the Dictionary for Mechanical Engineering, for Electrical Engineering, for Construction, etc.), such as from the Dictionary of Basic Terms of Mechanics (2002) and from such non-terminological (explanatory), such as the Dictionary of the Albanian language (2006), in which the terms of technical terminology (mechanics, construction, electricity) meet.

The support in the inductive way (from examples to arguments and conclusions) and in the deductive way (from met preconditions we come to arguments, from extracted material we reach concrete examples), determines the results achieved in this paper.

Word-group (word combination) with relatively low degree of motivation

The word-group (word combination) terms with component parts that express figurative meanings, especially the defining part are clearly distinguished from the point of view of the discovery of the concept (Duro, 2009:149), since the figurativeness of the phrase clearly expresses the form: herringbone = kurriz peshku, batterfly =

flutur, curling chip (curled chip) = ashkël e përdredhur, amphibios vehicle =automobil amfib, cooling rib (coling fin) = brinjë ftohëse, countersunk-headed bolt = bulon kokëfshehur, joint (butt) = buzëpuqj/e-a, hexagon nut = dado gjashtëfaqëshe, acorn nut (domed cap nut) = dado kësulë, butterfly nut (wing nut) = dado me vesh, nechanical hand = dorë mekanike, inlet port (admission port; intake port) = dritare e hyrjes, tooth = dhëmb-i, straight tooth = dhëmb i drejtë, helical tooth (spiral tooth) = dhëmb helikoidor, thrust face = fage mbëshetëse, blast = fryrj/e-a, cooling = ftohj/e-a, brus = furç/ë-a, jaw = gojëz çelësi, trough (pan) = govat/ë-a, chip pan = govatë ashklash, castint pit = gropë derdhjeje, eccentric cam = gungë jashtëqendërsore, tooth flank = ijë dhëmbi, air cushion = jastëk ajri, bearing cage = kafaz kushinete, load hook = kanxhë ngarkesash, root of tooth = këmbë e dhëmbit, cylinder liner (cylinder sleeve) = këmishë motori, screw head = kokë vidhe, clutch cone = kon i bashkorit (i friksionit), jib of power shovel = krah eskavatori, crown gear (ring gear) = kurorë dhëmbëzore, rotary harrow = lesë rrotullore, anti-icer fluid (de-icing fluid) = lëng kundërngrirës, turbine blad = lopatë e turbinës, tapping spout = lug shkarkimi, firebrick masonry = muresë zjarrduruese, universal joint =nyjtesë universale, combination pliers = pincë e kombinuar, rivet pliers = pincë ribatinash, crankpin = qafë e biellës, hammer head = rrahës çekani, leather belt = rrip lëkure, spur gear = rrotë dhëmbëzore cilindrike, lap fold = rrudhë rulimi, stop-light = sinjal frenimi, spring valve = sustë e valvolës, metal-working saw =sharrë për metal, guide rail = shinë udhëzuese, ignition spark = shkëndijë ndezjeje, core drill = shpojsë tubore, hand lathe = torno dore, heat pipe = tub i nxehtësisë, threading tool (thread cutter) = thikë filetëprerëse, oil ring vajheqëse, bloomery hearth = vatër saldimi, line of action =vijë e ngërthimit (e rrotës dhëmbëzore, e ingranimit), tower crane = vinç kullëheat-resisteant glass = xham

zjarrdurues, sprocket wheel = yllëz-a, core of section = zemë e seksionit but not the function, in the case where the shape of the object may change, but the function may remain the same. In this sense, these phases' formations with component parts figuration are conceptually characterized by a relatively low degree of their motivation (Kurti, 1991:29-530):

In the above group, with the motivation of the second degree, the eponymous terms word-group (word combination) can also be included, in which, in general, the determining component, a proper noun emerges (person, place, etc.). If the defined part appears somewhat motivated (or known), the determining part does not reveal any essential features of the concept, such as: rondele e Groverit (spring of Grover), krygi i Maltës (Maltese cross) (Shvart, 1980:87), çernierë e Hukut (Hook's jonit), fortësi Vikers (Vickers hardness). fortësi Rokvel (Rockwell hardness), fortësi Shor (Shore hardness), ekuacion i Van der Valsit (Van der Vals' equation), ekuacion i Bernulit (Bernoulli equation), kalibror Johanson (block gauge), çelik Besemer (Bessemer steel), turbinë Frensis (Fransis turbine), filetë Sellers (Seller's thread), filetë Vitvorth (Whitworth thread), modul i Jungut (modulus elongation; Young's modulus)burmë arkimediane (Archimede's screw), hundëz Laval (Laval nozzle) (Shvarts, 1980:36-39) etc.

In most cases these formations find adequate equivalents from one language to another, but rarely may they not match the internal form. Sometimes, in both languages, eponymous parts are replaced with another word, which expresses a broader meaning, which is closer to the concept of the term word-group (word combination). This is the reason word-group (word combination) terms with figurative semantic loads as well as word-group (word combination) terms with eponymous component parts not infrequently are replaced by these elements with more contextually extensive words (Pllana, 2017:198-199).

In English

In Albanian

butterfly valve valvol flutur dead point pikë e vdekur

lubrification point pikë e lyrësimit (e lubrifikimit)

freezing point pikë e ngopjes
melting point (fusion point) pikë e shkrirjes
combination pliers pincë e kombinuar
rivet pliers pincë ribatinash
pipe tongs pincë tubash
universal-joint fork pirun i kardanit
pressure piston piston shtytës

pitch point pol i rrokullisjes (së rrotës dhëmbëzore)

centre os gravity qendër e rëndesës centre of rotation qendër rrotullimi dog bolt bulon i çernieruar doktor bar shufër rregulluese dolly bar shufër kapëse

dovetail jonit lidhje bishtdallendyshe

eyelet bolt bulon çengel heringbone tooth dhëmb kurrizpeshku

Hook's jonit (=fork jonit) çernierë e Hukut=çernierë kryqe king pin pern (strumbull) i grushtit të kthimit

king pin pern i grushtit të kthimit

spring washer rondele e Groverit=rondele elastike

In a group with a motivation slightly higher than the first two groups, word-group (word combination) formations can be introduced with one of the elements that more or less clearly reveal the function of the concept, but not its form. Examples can be drawn from both languages, which highlight the similarities or affinities of the structures in terms of internal form (Fjalor, 2002:33-435).

In Albanian

bulon i ashpër çift i lartë çift i ulët rreth primitiv vidhë mikrometrike vidhë regjistruese vidhë ushqyese

Word-groups (word combination) with high degree of motivation

These word-group (word combination) terms make up biggest part of the phrasal formations and in general these structures are preferred in any terminology, as the direct meanings of their component part very clearly

In English

rough bolt
higher (highest) pair
lower pair
dedendum circle
micrometer screw
adjusting screw
leading screw

reveal the resultant concept, expressed by both or all component parts (when there are more than two component parts) (Thomai, 2017: 250).

Based on the amount of component parts, we can divide these formations with high motivation and very high motivation. Although this division has subjective and relative value, relying on form, we can put as a limiting line the amount of components. Thus, if the amount of component parts is two, then these word-group (word combination) are highly motivated, and when this number exceeds two component parts (or generally consists of many component parts), then we are dealing with a very high degree of motivation. For a very high degree of motivation, the extended terminological word-group (word combination) are generally characterized, which appear at large in the narrow

fields (subfields) of knowledge, since they are detailed divisions and subdivisions of concepts, which leads to the formation of extended glossary phrases (word-group; word combination) (with many elements) (Duro, 2009:149). These last ones take the form of semi-definition therefore, while in dictionaries of narrow fields they may be included in their entirety, in dictionaries of broad fields, they should be reduced to the extent of two component parts phrases. Below we are bringing some examples from both languages:

a) High motivated phrases

In Albanian

buzë shtrënguese hundëz spërkatëse ijë dhëmbi impiant i ventilimit kokë shpuese lartësi e dhëmbit teh prerës valvol sferike

In English

gripping jaw spray nozzle tooth flank ventilation plant boring head height of tooth cutting edge spheric valve

b) Very high motivated phrases

Alb.: levë e llojit të dytë

Engl.: *lever of the second order* Alb. : *levë e ndërrimit të marsheve*

Engl. : *gear-box lever* Alb. : *levë freni e dorës* Engl. : *hand brake lever*

Alb.: metal i thyeshëm në të ftohtë

Engl.: cold-short metal

Alb.: metal i thyeshëm në të nxehtë

Engl.: hot-short metal

Alb.: mikroskop me kontrast fazash Engl.: phase-contrast microscope Alb.: moment i çiftit të forcave Engl.: moment of a couple (of forces)

Alb.: moment polar i inercisë Engl.: polar moment of inertia

Alb.: moment me injektim të drejtpërdrejtë

Engl.: *direct-injection engine*

Regarding the motivation of the term in the most general sense, it should be noted that the motivation of the term, as well as the motivation of the word, basically has what Saussure has described as the arbitrariness of the sign (Duro, Pllana, 2018:41-47), without which the sign cannot perform its function. Although the connection of the term with the concept it expresses is much more direct than the connection of the word (common) with the meaning (i.e., the term as a rule is and should be mainly motivating, especially within the limits of the field of knowledge where it is used), yet this motivational connection has linguistic character; it is mainly concerned with the external side of the term (especially with the meanings of the constituent elements of the word-group (word combination)). From this point of view, this emerges as an internal form of the word-group (word combination), and in principle, the more transparent this form is, the easier it is to penetrate the internal part of the concept. So, the rest of the content of the term is decomposed through its definition or "learning" of its conceptual content. This may seem clearly, because a non-specialist in the field at the level of meaning "feels it", but cannot grasp the meaning of the concept, except by the specialist. Therefore, definiteness also emerges as one of the main properties of the term, which really leads us to its conceptual content, that is, to the concept. Thus, for instance, as a given example in "Terminologjia si sistem" (Duro, 2001:45), word-group "dalje e thikës" (going out of knife), by motivating the meanings of the constituent elements "dalje and thikë" (going out and knife), the linguistic motivation of the concept expressed by this unit can be done, while its real motivation with the concept can be achieved by discovering the concept through definition: "dalje e thikës" (exit of knife), i.e.; not "knife exit process" (which is tautological), but "the path that the knife performs in the cutting process to where it stops".

The motivation of the terms word-group (word combination) can also be seen from the

source composition of their elements, since each element can have different degrees of motivation depending on its origin (Kostallari, 2018:340). Thus, for instance a wordgroup (word combination) composed of combinations of foreign terms with Albanian ones, can have different degrees of motivation, when only Albanian or foreign terms can be included. On the other hand, motivation also depends on which constituent element of the word-group (word combination) is transparent (clearer or more accurate), i.e., the defined or determining element. Therefore, a division can be made into two main groups, taking as a basis the determining and defined element, as well as the sources of where these constituent elements come from.

1) Defined elements

- Terms raised on the basis of the meaning of common words: kokë, buzë, gotë (head, jaw, cup), në words-groups (words combination): kokë shpuese (boring head), buzë prerëse (cuting edge), buzë shtrënguese (clamping jaw), gotë tubi (tub cup) etc.
- Terms with word-forming constituent elements: *katërhallkësh-i* (*four-bar-*), *katërhallkësh me çernierë* (*hinged four-bar mechanism*) etc.
- Terms borrowed from the terminology of other fields: lartësi e dhëmbit (height of tooth), numër dhëmbësh (number of teeth) etc.
- Terms from foreign languages: *aks i rrotullimit* (*axis of rotation*), *valvol sferike* (*spheric valve*) etc.

2) Determining elements

- Common words: çift i ulët (lower pair), çift i lartë (highest pair), rrotë e vogël (small wheel), rrotë e madhe (large wheel) etc.
- Foreign terms: *rreth primitiv* (*dedendum circle*) etc.

From the point of view of the correlations of the constituent elements of the terms between languages, we can distinguish these cases:

Term in Albanian

Word-group (word combination) in English

avullftohësi steam attemperator avullpastrues steam purifier baraspeshor-i balance beam biell/ë-a (bren/ë-a) connecting rod çelikim-i steel plating dhëmbëgdhendj/e-a gear shaping elektropomp/ë-a electric pump fletësharr/ë-a saw blade gazmbledhës-i gas collector hapmatës-i pitch gauge kalorifer-i air heater lapues/e-ja lapping machine plumbim-i lead coating ribatinur/ë-a rivetted joint

shlizëretifikues/e-ja spline-grinding machine

thikëmbajtës-i tool post

vajmbledhës-i oil catcher (oil collector)

vajngrohës-i oil heater yllëz-a sprocket wheel zinkim-i zinc coating

Word-group (word combination) Term in English in Albanian

bulon pa kokë stud fikatës lëkundjesh damper hallkë zinxhiri (traktori) tracklink lartësi e këmbës (së dhëmbit) dedendum *lartësi e kokës (së dhëmbit)* addendum mbjellëse me rreshta rowdrill mekanizëm lidhës knotter mekanizëm prerës cutterbar nyjë montimi subassembly gafë e biellës crankpin rekord bërrvlak elbow sasi e lëvizjes momentum shigjetë uljeje sag

Conclusion

Words, as lexical tools, cannot, in any case, meet all the needs of society, both to name objects and new phenomena, and to replace words from foreign languages. For this, more extended linguistic units are formed, phrases, which, like words, serve to mark innumerable new objects, phenomena and concepts.

The word-group (word combination) terms of this terminology are observed in the plane of both languages, in Albanian and in English, taken each separately, as well as in relation to each other. It is important to note that English has been prioritized as a language with international reach, and the terminology of mechanical engineering in it as a special lexicon that serves as a standardization model

not only for Albanian, but also for other languages.

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