The invisible hand of grammaticalization: West-Germanic substitutive infinitive and the prefix ge-

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(Article begins on next page)
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General Editor
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Zentrum für Allgemeine Sprachwissenschaft, Typologie
und Universalienforschung, Berlin
efk.koerner@rz.hu-berlin.de

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Variation and Change in Morphology. Selected papers from
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VARIATION AND CHANGE
IN MORPHOLOGY

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Edited by

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The invisible hand of grammaticalization
West-Germanic substitutive infinitive and the prefix ge- *

Livio Gaeta
Università di Napoli "Federico II"

Grammaticalization may have therapeutic and pathological effects on morphology. The paper will focus on these latter with special regard to the occurrence of a morpheme in an unexpected form as is the case for the West-Germanic substitutive infinitive. The reason for this mysterious case of form-meaning mismatch must be sought in the grammaticalization of the Germanic telic prefix *ga-. As a consequence of its grammaticalization in the past participle, a semantic incompatibility prevented the so-called A1-verbs from being touched by the grammaticalization wave spreading the perfect periphrasis throughout the whole verbal system. Thus, the arguably default form came in, namely the infinitive, whereby the perfect periphrasis could be completely paradigmaticized even though at the cost of a form/meaning mismatch. In this light, the long-wave effect of grammaticalization can be made responsible for the anomaly preserved until today in all West-Germanic dialects, in which ge- was grammaticalized as an inflectional marker.

1. Introduction

What is the impact of grammaticalization on morphology? Basically, a therapeutic one: Grammaticalization is generally responsible for the increase of iconicity (cf. Bybee 2006). For instance, in Old English, the same form full could be used both as an adjective and as an adverb. After the grammaticalization of lic 'body' as the adverb-forming suffix -ly, iconicity was increased because of the actual explicit coding of the derivational relation between the basic adjective full and the derived adverb fully.

*Parts of this paper were also presented at the 39th SLE Conference held in Bremen, August 2006. I am deeply indebted with the people present on these occasions for insightful remarks and criticism, and especially Elke Ronneberger-Sibold and Pieter Seuren. I am also indebted with the editors of the volume and an anonymous reviewer for suggestions and remarks. Needless to say, I am solely responsible for errors and misunderstandings contained in the paper.
On the other hand, pathological effects can be observed: Dysfunctional morphological structure comes about which violates general and/or language-specific morphological principles (cf. Gaeta 2008). In other words, grammaticalization may give rise to mismatches, which can be defined as “synchronic form/meaning discrepancy[ies], in which form-function mappings are incongruent with respect to more general patterns of correspondence in the language” (Francis & Michaels 2003: 2).

In the rest of the paper, several different cases of form/meaning mismatch will be discussed. In particular, the so-called substitutive infinitive occurring in German as well as in other West-Germanic languages will be focused on, with the aim of showing that this quirky feature may be explained as a side-effect of the grammaticalization of the perfect periphrasis in the Middle Ages. The paper is structured as follows: Section 2 provides a survey of different cases of form/meaning mismatches which can be explained as the result of grammaticalization, while Section 3 introduces the historical background which is necessary for understanding the rise of the substitutive infinitive. The latter will be explained in Section 4 as the peculiar expansion of the perfect periphrasis to a particular verb class, namely to verbs governing a bare infinitive. The final Section 5 draws the conclusion.

2. Form/meaning mismatches in morphology

A first type of form/meaning mismatch is given by the appearance of a certain form in the “wrong” place. “Trapped” morphology comes about as a consequence of grammaticalization (cf. Harris & Faarlund 2006). Accordingly, a morpheme turns out to be “trapped” by the grammaticalization of another morpheme. For instance, in Old Norse the inflectional marker -s was “trapped” in a dispreferred position and subsequently eliminated in Norwegian:

(1) ON hest-s = in-s > Norw. hest-en-s
   horse-gen = the-gen
   “the horse (gen.)”

Similarly, introflexion came about in Latin as a consequence of the grammaticalization of markers like -pse and -dam (cf. Haapelmaeth 1993):

(2) a. *is-pse/ea-pse ‘self’ > ipse, a, um
   eam-pse/eam-pse > ips-um, -am
   *eö-pse/eö-pse > ips-ö, -â
   b. NOM. qui-dam/quae-dam ‘a certain one
      GEN. cuius-dam
      DAT. cui-dam
      ACC. quen-dam/quant-dam
      ABL. quö-dam/quò-dam

Notice that only in the first case a morphological change, called externalization of inflection by Haapelmaeth, has eliminated introflexion, while in the second case the mismatch was preserved.

A second type of form/meaning mismatch is given by the appearance of an unexpected form for a given bundle of morphosyntactic features. This usually comes about as a result of the expansion/paradigmaticization of a certain grammaticalized construction. In some Russian dialects, the grammaticalization of the perfective periphrasis has given rise to a sort of split alignment, because the possessive construction which is at the origin of the perfective periphrasis contained a non-nominative subject (cf. Creissels 2008: 25):

(3) a. U Ivan novaja malina.
   at Ivan:gen now:sg:nom car:sg:nom
   “Ivan has a new car.”
   b. U volkav s’edeno korovu.
   at volk:pl:gen eaten:sgn cow:sg:acc
   “The wolves have eaten the cow.”

On this background, the rest of the paper will be devoted to discussing a particular intriguing case of synchronic mismatch, namely the so-called substitutive infinitive (= IPP, Infinitivus Pro Participio) occurring in several West-Germanic languages like Modern Standard German (= MSG), Dutch, West Flemish, Afrikaans (cf. Schmid 2005), and exemplified below by MSG:¹

(4) a. Ulli hätte die Morphologie-Tagung nicht besser organisieren können.
   Ulli had the morphology meeting not better organize:inf can:inf
   “Ulli couldn't organize better the morphology conference.”
   b. *Ulli hätte die Morphologie-Tagung nicht besser
   *Ulli had the morphology meeting not better
      organisieren gekonnt.
      organize:inf cam:ptptcp
   c. Ulli hätte es gekonnt.
   Ulli had it cam:ptptcp
   “Ulli could do it.”

Similar to the Russian dialects mentioned above, the mismatch is given here by the appearance of an unexpected infinitive for what should have been a past participle. Notice that the latter is indeed attested, when the modal is used as a full verb, as shown in (4c).

¹ Since a lot of individual and regional variation occurs, the label MSG refers to the standard variety as usually described by reference grammars like for instance Duden (2005: 473).
Besides modals, the IPP occurs in MSG optionally with causative and perception verbs:

(5) a. Ulli hat den Wagen kommen sehen/gesehen.
    Ulli has the car come:INF see:INF/see:PSTTCP
    "Ulli has seen the car coming."

b. Ulli hat den Wagen kommen lassen/gelassen.
    Ulli has the car come:INF let:INF/let:PSTTCP
    "Ulli has got the car to come."

Several explanations have been suggested for understanding the IPP and more generally the character of the West-Germanic verbal complex (cf. Gaeta 2005 and Wurmband 2006 for overviews of respectively diachronic and synchronic approaches); however, a satisfactory "answer to the question of what the (deep) motivation of verb cluster formation is and why this phenomenon only exists in certain languages is still outstanding" (Wurmband 2006: 234).

In what follows, it will be shown that far from being a quirky character of the West-Germanic verb complex, this mismatch has to be seen as a side-effect of the grammaticalization of the perfect in the late Middle Ages, in consequence of the special role played by the telic prefix ge- of the past participle.

3. The ge-prefix and the perfect periphrasis

Two important facts can be observed at the Jahrtausendwende in Continental West-Germanic: the grammaticalization of the ge-prefix as an inflectional marker in the past participle, and the grammaticalization of the perfect periphrasis. Both facts are fairly complex and call into play different properties as well as domains.

The prefix ge- played a crucial role in the history of the West-Germanic languages: in Proto-Germanic, it is generally reconstructed as a proclitic marker of telicity (or "perfectiveness" for Lowe 1972: 223), as shown by forms like Gothic ga-tisan 'to be cured', being related to Latin cīm, Old Irish córn-, Albanian kë, etc. In the West-Germanic languages, the prefix ge- is ever since attested as an additive marker of the past participle forming a sort of circumfix, as it is still the case in MSG geschlagen and Dutch geslagen 'slept (psttcp.).'. However, its telic value was not lost, at least in the earlier stages. In fact, in Old High German (= OHG) the prefix was not compatible with intrinsically telic verbs like the following ones (cf. Braune/Reifenstein 2004: 273):

(6) bringan 'bring' → brüngan/bräht (psttcp.)
    findan 'find' → fundan (psttcp.)
    quēman 'come' → quēman/quomnan (psttcp.)
    trefan 'hit' → trofian/(gi)tofian (psttcp.)
    würdan 'become' → wortan/(gi)wortan (psttcp.)

This does not surprise given the intrinsic telic value of the prefix, which makes it highly redundant with telic verbal bases. In other words, the grammaticalization process leading to the expansion of ge- throughout the entire verbal system as observed in MSG was not yet completed. Notice that in Middle High German (= MHG) this restriction still holds (cf. Paul et al. 2007: 247):

(7) MHG bräht   MSG gebracht
    gefunden   gefunden
    gekommen   getroffen
    getroffen   (ge)worden

The grammaticalization of the prefix ge- as an inflectional marker was not only incomplete, thus giving rise to inconsistencies across the verb paradigms, but also accompanied by the phenomenon of layering, namely "the persistence of older forms and meanings alongside newer forms and meanings, whether derived by divergence from the same source or by renewal from different sources" (cf. Hopper & Traugott 2003: 124). In fact, ge- could be generally prefixed to verbs giving rise to aspectually distinct pairs, as shown below with the help of AcI-constructions:

(8) OHG sehan 'see/gesehen:
    a. thar sah si drikhtin stantan  (Otfr., Ev. 5.7.44)
       there saw the lord standing
       "She saw the lord standing there."
    b. thar gisah er stantan gotes boton scowan  (Otfr., Ev. 1.4.21)
       there gisah he staying god's messenger beautiful
       "He came to see god's beautiful messenger standing there."

    OHG hören 'hear/gihören:
    c. then fater hort er sprechan  (Otfr., Ev. 1.25.15)
       the:ACC father heard he speaking
       "He heard the father speaking."
    d. ik gihorte dat seggen ... (Hild. 1)
       I gihorte this say:INF
       "I came to hear saying this, ..."

2. In what follows, Old English is intentionally left aside: although similar phenomena are attested, the partially different conditions and the strong Romance influence after the battle of Hastings render the case of Old English much more complex than what can be dealt with here. See at least Wischer & Habermann (2004) for the prefix ge- in Old English, and Fischer (1994) for the development of the infinitival complementation.
Notice that the usage of the prefixed companion with the Acl-construction forces an ingressive interpretation in (8b) (cf. Schrodt 2004: 125). As for the example of *ghihrən in (8d) above, the verse is the very beginning of the Hildebrandlied.

It must be emphasized that Acl-verbs constituted a particular verb class, which required as a necessary condition for the Acl-construction to be possible the simultaneity between the two events conveyed by the predicates. In other words, the two events had to be interpreted as at least partially overlapping.

The class mainly contained perception and causative verbs; however, an extension to other verb classes (saying, thinking verbs, etc.) took place quite soon under Latin influence (cf. Speyer 2001). In this light, the usage of the aspectually marked verbs prefixed by gi- was only possible on condition that the first event had not to be interpreted as closed with respect to the second one. Accordingly, the pairs reported in (8) above display an ingressive meaning.

This prefixal usage of ge- is still highly productive in MHG, as can be gathered from the following table (cf. Solms 1991: 125), which shows the distribution of certain verbal prefixes in OHG and MHG texts:

<table>
<thead>
<tr>
<th></th>
<th>ge-</th>
<th>ent-</th>
<th>er-</th>
<th>be-</th>
<th>ver-</th>
<th>zer-</th>
</tr>
</thead>
<tbody>
<tr>
<td>OHG Abrogans</td>
<td>28.3%</td>
<td>4.3%</td>
<td>19.2%</td>
<td>27.4%</td>
<td>15.5%</td>
<td>5.3%</td>
</tr>
<tr>
<td>MHG Iwein MS A</td>
<td>33.8%</td>
<td>6.3%</td>
<td>18.8%</td>
<td>18.8%</td>
<td>21.3%</td>
<td>1.1%</td>
</tr>
<tr>
<td>MHG Gregorius MS A</td>
<td>32.1%</td>
<td>7.3%</td>
<td>19.4%</td>
<td>21.9%</td>
<td>20.8%</td>
<td>2.2%</td>
</tr>
</tbody>
</table>

In particular, the prefixed companion was used to convey future and pluperfect meaning still in MHG:

3. Schrodt (2004: 113) distinguishes between an ingressive and an egressive aspect: they both realize the "complexive" dimension, which generally represents a bounded futural event. The opposition between the prefixed and the prefixless verb allows one to distinguish "die wichtigeren Begebenheiten im Bericht von den weniger wichtigen ... die ihrerseits in der konstituiierenden Aspektfunktion mittels des Simplex erscheinen" (Schrodt 2004: 126). I will not go further into the rather complex picture depicted by Schrodt, also because I am aware of the large amount of theoretical and terminological differences to be found in studies on tense and aspect. I will limit myself to speaking of telicity (or boundedness) as for the actional/aspectual dimension, and of anteriority/posteriority for the temporal dimension.

4. Notice that this condition still holds for MSG:

    Den Vater hörte er sprechen | *gesprochen haben.

    the father heard he speak/ spoken haveINF

(9) a. Future

    * ich weiz wol waz Kriemhilt mit disem scattze getheet
    I know well what K. with this treasure ge-does
    "I well know what Kriemhilt will do with this treasure."

b. Pluperfect

    (cf. Paul et al. 2007: 290):
    als der känic Gunther die rede wol gesprach, Hagen
    when the king G. the discourse well ge-spoke, H.
    der käre den quoten Rüdegrēzen sach
    the clever the good R. saw
    "When the king Gunther had finished his discourse, the clever Hagen saw
    the good Rüdegrēzen."

Thus, the prefix ge- was a key marker of telicity for verbs during the whole Middle Ages, being layered in different but homogeneous usages.

In the same time span, namely in late OHG/early MHG, the grammaticalization of the perfect periphrasis also took place (cf. Kotin 1997; Harris 2003). In classical OHG, a sentence such as the following one displayed a biclausal structure, in that the verbal complex had a resultative reading and an agreement marker on the past participle occurred. Furthermore, it was only possible with transitive verbs, which allowed for a possessive reading:

(10) logiuselich, thie ther gisheit uub sie zi geronne, iu habet sia
    whoever who there gi-sees woman her to lust he has her
    forlegana in sinemo herzen
    (Tat., Ev.Harm. 28.1)
    enclosed in his heart
    "Whoever will see a woman in order to lust after her, he'll have already got her
    enclosed in his heart."

In late OHG, beginning with the 11th century, the same construction may be considered grammaticalized, thus forming a monoclausal sentence with the addition of temporal reference, namely anteriority:

(11) a. daz chit siben büdlisto, die ummānge geleitn hāben.
    this means seven arts which un-many learned have
    ünde über mānge genēmen chūnnen
    (Not. 1.65.3–4)
    and but many gi-name-INF can
    "This means the seven arts, which many have studied, but only few are able to
    mention."

5. In more formal terms, we can say that the grammaticalized auxiliary haben provides a further temporal interval which allows the past participle to release its referential potential. Notice that in the case of the Acl-construction, the second temporal interval of the perception or causative verb, i.e. its second argument-time window, is saturated by the embedded verb (cf. Klein 2000; Gaeta 2008 for details).
4. The IPP and the expansion of the perfect periphrasis in MHG

What is the place of the IPP in the necessarily sketchy picture depicted so far? Before looking at the historical evidence available, let us speculate on the role which has to be attributed to the IPP in this scenario.

The main thesis which I would like to defend is that the IPP has to be seen as a side-effect of the grammaticalization of the perfect in the late Middle Ages, a consequence of its expansion to all possible verb sets. In this light, the mismatch is motivated by the semantic incompatibility of the past participle with the AcI-construction. The incompatibility is due to the special role played by the prefix ge- of the past participle, which, as we have seen, is intrinsically telic (for a partially similar view, see also Jbema 1997: 152). Therefore, it provides an obstacle for the expansion of the perfect periphrasis to the AcI-construction, because the latter requires a partial overlapping of the two events encoded. The crucial point is that the perfect periphrasis as such is theoretically compatible with the AcI-verbs, because it conveys temporal reference of anteriority, which can be predicated of the first event of the AcI-construction. The problem is, however, that the past participle is also marked as telic by the prefix ge-, which is incompatible with the AcI-construction, unless an ingressive reading is forced, as we have seen above. The latter is in its turn incompatible with the perfect periphrasis. To overcome the obstacle represented by the prefixed participle, the infinitive, as a default form (cf. Eisenberg, Smith & Teuber 2001: 256), replaced the participle, thus allowing the extension of the perfect to the AcI-verbs. The construction did convey anteriority of the first event with respect to the speech time, while at the same time the infinitive was not intrinsically marked for boundedness.

In spite of the apparently speculative character of this hypothesis, a number of tight predictions logically result from it. Firstly, the IPP should appear concomitant with the extension of the perfect construction to complex verb structures. Thus, we wouldn’t expect the IPP to appear immediately after the grammaticalization of the perfect periphrasis. Instead, because of the obstacle represented by the prefixed participle, a delayed expansion is predicted. Secondly, the complex verb structures affected earlier by the IPP should be well characterized as for their aspectual/actional composition. This would reveal the role played by the aspectual/actional properties of the involved predicates. Finally, the infinitive should be used as a default form in other verbal peripherases as well in the same time span. Let us see if these predictions are supported by the historical evidence.

As to the first prediction, the IPP is first attested in the 13th century, two centuries after the grammaticalization of the perfect periphrasis:

(12) a. hast, du das Schiff lägen, gahn, have:2sg you the boat let:inf go:inf
    "You left the boat go away."

b. das er die Briefe nit habe, heissen, machi, that he the letters not have order:inf make:inf
    "that he did not order to prepare the letters"

These examples, and the others collected by Kurrelmeyer’s (1910) thorough investigation of the first attestations of the IPP, are interesting from a double viewpoint. On the one hand, they show that MHG prevalently behaves like Dutch as for the linearization of the constituents, namely V₁V₂V₃. We will come back to this point later. On the other, modal verbs, which categorically require IPP in MSG, were scarcely attested, whereas causative and perception verbs

expected, unergatives are incompatible: *Karl hat ihn geschlafen gesehen 'lit., Karl has seen him slept.' Furthermore, unaccusatives pattern with transitives: der vom Mars gekommene Riese 'the giant come from Mars' and Karl hat ihn ins Zimmer gekommen gesehen 'lit., Karl has seen him come (pstptc.) into the room.' See Klein (2000) and Gaeta (2008) for more details.
were robustly attested. The following table summarizes the data collected by Kurrelmeyer (1910):

Table 2. The earliest attestations of IPP in MHG

<table>
<thead>
<tr>
<th>Word order</th>
<th>13th c.</th>
<th>14th c.</th>
</tr>
</thead>
<tbody>
<tr>
<td>causatives</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>tuon</em> 'do'</td>
<td>6</td>
<td>10</td>
</tr>
<tr>
<td><em>lachen</em> 'laugh'</td>
<td>8</td>
<td>1</td>
</tr>
<tr>
<td><em>heigen</em> 'order'</td>
<td>10</td>
<td>12 (PP = 12)</td>
</tr>
<tr>
<td>modals</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>mügen</em> 'may'</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><em>dürren</em> 'dare'</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>mügen</em> 'be able to'</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>wollen</em> 'want'</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>können</em> 'understand'</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>dürfen</em> 'need'</td>
<td></td>
<td></td>
</tr>
<tr>
<td>perception verbs</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>hören</em> 'hear'</td>
<td>8 (PP = 1)</td>
<td>11</td>
</tr>
<tr>
<td><em>sehen</em> 'see'</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>(PP = 2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>benefactives</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>helfen</em> 'help'</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

Although sparse forms of the expected past participles are attested (indicated by PP in the table), the dominant type is given by the IPP, mainly with causative and perception verbs. Thus, the historical findings project a picture which is very different from what we observe today; whereas in MSG (and Dutch) modals categorically display the IPP, in its earlier stage the IPP occurred in a systematic way only with the core set of the ACI-verbs, namely perception and causative verbs. Far from being unexpected, this fact fits very well into the scenario depicted so far, and actually fulfills the second prediction formulated above. In fact, modals do not require the condition on simultaneity which we have observed above for

8. In this regard, consider Grenvik's (1986: 46) comment: "Daß Perfektwert von modalen Hilfsverb en im Mhd. nicht auftreten, rührt also daher, daß man die Perfektwodung nicht am Hilfsverb, sondern am Hauptverb ausdrückte" [Thus, that forms of the perfect of modals did not occur in MHG depends on the fact that the perfect meaning was expressed not by the modal, but by the main verb]. Again, MSG confirms this insight:

Hans könnte kommen/ gekommen sein. 'Hans could have come'
Hans could come-INF come-PPSTPTCP be.
of the constituents (cf. Kotin 2003 for a detailed reconstruction of the origin of the werden + infinitive periphrasis):

(15) *Ulli glaubt, dass seine Frau ruhig wird / hat schlafen können.*
   *U. thinks that his wife quietly becomes / has sleep:INF can:INF*
   *"Ulli thinks that his wife will be able to / could sleep quietly."

Two further independent arguments support the analysis laid down here: the global picture of (West-)Germanic languages and the restrictions still displayed by the past participle in the modern languages.

As for the global picture of (West-)Germanic languages, it must be stressed that the IPP is only attested in those (West-)Germanic languages, in which ge-

wos grammaticalized as a marker of the participle (cf. Abraham 1998: 109), as illustrated by two other varieties, namely Frisian and Low German, which do not display the ge-prefix. Expectedly, the IPP does not show up:

(16) Frisian: *dat er it book leze kind hat*

Low German: *dat he dat book lesen kunnt het*

"that he could read can:pstptcp has"

However, two exceptions have been pointed out which disturb this water-tight picture, namely West Frisian dialects, which display prefixless participles and the IPP, and Yiddish which is its mirror-image, showing prefixed participles and the IPP:

(17) a. West Frisian dialects (prefixless participles and IPP):

   *dat er it hat kinne dwaan*
   *
   *that he it has can:INF do*
   *
   *that he could do it*

b. Yiddish (prefixed participles and IPP):

   *Zey hobn gemuet sikh farsteydik*
   *
   *they have must:pstptcp themselves defend*
   *
   *"They had to defend themselves."

However, it must be noted that strong language contact was at play in both cases, which might have influenced the reshaping of the verbal complex on the basis of Dutch (for West-Frisian dialects), or the normalization of the structure (for Yiddish).

Notice that normalized structures are also attested in the diachrony of German, which corresponds to more general normalization tendencies witnessed by Paul


"Ausnahmsweise Verwendung des Part. der genannten Verba in der neueren Sprache ist wohl immer nicht durch landschaftlichen Sprachgebrauch, sondern durch logische Erwägungen der Schriftsteller veranlasst […] Besonders hat

Rückert die Sprache zu korrighieren versucht […] Auch Adelung hält bei hören das Part. für die regelmäßige, edlere Form."

Thus, it does not come out as a surprise that for such a quirky feature like the IPP simplification strategies, which are particularly strong in the case of language contact, might have been at work.

Finally, traces of the bounded nature of the German past participle can still be observed today. In fact, if we try to embed an Aci-governing past participle into a noun phrase, an ungrammatical result obtains:

(18) a. *Der im Park schlafen gesehene Mann wurde verhaftet.*
   *the im:park sleep:INF see:pstptcp man became arrested*

b. *L’uomo visto dormire nel parco venne arrestato.*
   *the-man see:pstptcp sleep:INF in:DEF park came arrested*
   *
   *"The man seen sleeping in the park was arrested."

As testified by the Italian correspondent in (19b), the operation is theoretically conceivable, and in fact grammatical in a language like Italian in which such a telicity marker was never present. In MSG, however, traces of the telic nature of the prefixed past participle still provide an obstacle for the expansion of the Aci-construction: in fact, the past participle cannot govern an embedded predicate which has to be specified as unbounded without the help of the auxiliary haben that provides a second temporal interval for the governing predicate to be anchored at. As we have argued for above, the latter is only possible on condition that a non-telic form, namely the IPP, shows up.

Lastly, the picture sketched so far would be incomplete without adding a final word on the question of the deviant linearization. The following table summarizes the data collected by Schmid (2005) on the linearization of the constituents in the IPP in five West-Germanic languages when the second constituent is a modal:

<table>
<thead>
<tr>
<th>Table 3. IPP constituent order in 5 varieties of West-Germanic</th>
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<tr>
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<td>modals</td>
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<tr>
<td>MSG = German; SG = Sankt Gallen German; A = Afrikaans; WF = West Flemish; B = Bernese German; D = Dutch</td>
</tr>
</tbody>
</table>

9. [Exceptional employment of the participle of the verbs mentioned above in the modern language is certainly not always due to regional usage, but to logical remarks of the authors … In particular, Rückert attempted at improving the language … And also Adelung considers the participle in the case of hören to be the more regular, noble form].
On the basis of what has been observed above, we may conclude that Dutch has retained the earlier word order, whereas the other West-Germanic languages underwent minor changes. At any rate, none of the five varieties displays a complete head-final linearization. Notice that for MSG the reordering of the constituents goes back to the 18th century (cf. Härd 1981). To account for the persistence of the anomaly, it might be hypothesized that the "abnormal" word order was functionally adequate to encode the repair effect of the default-infinitive. In this regard, recall that a similar deviant linearization is attested for the future periphrasis as well in MSG, as shown in (16) above. The latter also results from the default extension of the infinitive in the place of an older construction containing the present participle (cf. Kotin 2003).

Whatever the reason for the persistence of deviant linearization might be, a common developmental pattern may be observed. Except for the conservative order occurring in Dutch, in the other West-Germanic languages a slow process of reordering has taken place, which aimed at remodeling the verb serialization on the basis of the dominant verb-final pattern, namely either \( V_1 V_2 V_3 \), in which the finite verb shifts to the end of the verbal complex, or \( V_1 V_2 V_3 \), in which the non-finite verbs are inverted consistently with the verb-final pattern. In other words, we observe a conflict between the tendency towards a uniform verb-final serialization pattern and the functionally useful coding of the anomaly. Notice that this explanation copes well with the fact that the theoretically conceivable reordering \( V_2 V_1 V_3 \) does not occur in any West-Germanic variety displaying IPP (cf. Ijbema 1997: 148), because it doesn't match either of the two strategies suggested above.

Furthermore, a number of grammatical and extra-grammatical factors have presumably contributed to making the picture intricate, as insightfully commented by Ebert (1986: 122):

"Die für die Ausdrucksmöglichkeiten des Deutschen relativ unbedeutende Entwicklung der Stellung des finiten Verbs im Verbalcomplex gehört zu den schönsten Beispielen des Zusammenwirkens von sprachlichen und außersprachlichen Faktoren bei der syntaktischen Variation und dem Syntaxwandel in unserem Zeitalter".10

At any rate, whether the suggestions regarding the constituent linearization laid down here are correct or not must be left as an open question for future research, which has to be studied in connection with the general development of the *Satzklammer* in West-Germanic.

5. Conclusion

To sum up, grammaticalization may have therapeutic and pathological effects on morphology. Pathological effects have been considered in this paper with regard either to the occurrence of a morpheme in a wrong place, as is the case for introflexion in Latin and "trapped" morphemes in Norwegian, or to an unexpected form, as is the case for the perfect periphrasis in the Russian dialects and for the West-Germanic IPP. The latter is a particularly tricky case, in which the pathological side-effect of the grammaticalization of the perfect periphrasis is responsible for the synchronic mismatch. Because of the telic value of the prefix ge-, which was independently grammaticalized as an additive marker in the past participle, the ACI-verbs could not easily be target of the grammaticalization wave spreading the perfect periphrasis throughout all the verb sets of MHG. To overcome the semantic incompatibility, the arguably default form came in, namely the infinitive, which assured the complete diffusion of the perfect periphrasis at the cost of a form/meaning mismatch. A careful reconstruction based on the historical evidence available allowed us to detect the invisible but far-reaching effects of grammaticalization, which lurk behind the synchronic mismatch. Grammaticalization qualifies as a powerful conceptual tool for explaining quirky (morphological) features manifested by the natural languages all over the world.

References


