Universal Multiple-Octet Coded Character Set International Organization for Standardization Organisation Internationale de Normalisation Международная организация по стандартизации

Doc Type:Working Group DocumentTitle:Glyph Corrections for Eight Tangut IdeographsSource:Andrew WestStatus:Individual ContributionAction:For consideration by JTC1/SC2/WG2 and UTCDate:2023-03-01

This document requests glyph corrections for the eight Tangut ideographs listed in the table below.

Code Point	Current Glyph	New Glyph	Current Radical/ Strokes (V. 15.0)	Proposed New Radical/ Strokes
U+17105	扊	쥹	11.10	11.9
U+172A4	痰	痰	36.8	36.8
U+17BD1	鹿	瓶	169.9	169.9
U+17BD2	膈	赮	169.12	169.12
U+17BD3	甁	徿	169.13	169.13
U+17EF9	櫾	籬	260.17	260.17
U+18136	綤	綤	316.10	316.10
U+18171	釽	釽	316.15	316.15

Table 1. Summary of Glyph Corrections for 8 Tangut Ideographs

Three of the proposed changes (17BD1..17BD3) show a structural repositioning of the component next to the component 3 which reflects the actual glyph forms found in the primary sources. The other five proposed changes relate to supplementary characters added to the 2008 edition of Lǐ Fànwén's Tangut-Chinese dictionary (pages 945–952, nos. 5995–6074) which were mostly sourced from 颀术赵漱 Joined Rimes of the Fives Sounds (surviving in six partial manuscript versions) and some other manuscript texts which we had not previously carefully checked. The glyph forms for these eighty supplementary characters have now all been verified as best as we can given the poor quality of some of the hand-written character forms.

Tangut Data Changes

One of the proposed glyph corrections involve a change in stroke count, which if accepted would necessitate a change in the Tangut data files for the Unicode and ISO/IEC 10646 standards. The affected line in the data files is listed below.

Current (15.0):

U+17105 kRSTUnicode 11.10 New: U+17105 kRSTUnicode 11.9

Bibliography

Lǐ Fànwén 李範文 (comp.) and Jiǎ Chángyè 賈常業 (rev. and exp.). 2008. *Xià-Hàn zìdiǎn* 夏 漢字典 [Tangut-Chinese dictionary (revised ed.)]. Běijīng 北京: Zhōngguó shèhuì kēxué chūbǎnshè 中国社会科学出版社. ISBN 978-7-5004-2113-9

Evidence for Glyph Corrections

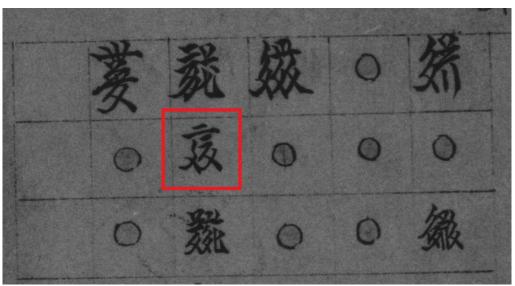
U+17105 *줋 tśjwo* is only attested in a single manuscript source, 廠 能 *the Fives Sounds*, and is entry #6004 in the 2008 edition of Lǐ Fànwén's Tangut-Chinese dictionary (see Fig. 1).

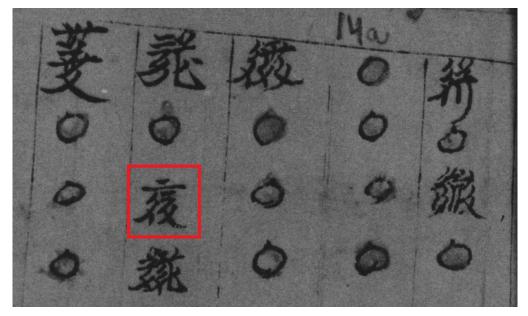
Fig. 1. Lǐ Fànwén, Xià-Hàn zìdiǎn (2008) p. 946 entry for #6004

1044 00 a transliteration [築]也。(音) 6004 緑(切)](韵圖 53: 甲 39-34 右、丁 122-77 左)。即 tśjwo=tś (tśji)+jwo(śjwo),亦即褒=줗 (盈)+支(茲)。

Lǐ Fànwén explains the character as being constructed from the top and left of $\overline{ \mathfrak{R} } t \underline{s} \underline{j} \underline{i}$, and the left side of $\overline{\mathfrak{K} } \underline{s} \underline{j} wo [\underline{s} \underline{i} \underline{c}]$, with the $\underline{f} \underline{a} \underline{n} \underline{q} \underline{i} \underline{c} \overline{\mathfrak{I}} \overline{\mathfrak{I}}$ spelling of $\underline{t} \underline{s} \underline{j} wo$ from these two characters. However, Lǐ Fànwén here confuses the two graphically similar characters $\overline{\mathfrak{K} } [\square \overline{\mathfrak{I}} \underline{\mathfrak{I}}] \underline{s} \underline{s}] \underline{s} \underline{j} wo$ and $\overline{\mathfrak{K} } [\square \overline{\mathfrak{I}} \underline{\mathfrak{I}}] \underline{l} \underline{j} \underline{u}$, (which together form the word $\overline{\mathfrak{K}} \underline{\mathfrak{K} } \underline{s} \underline{j} wo - \underline{l} \underline{j} \underline{u}]$), and the glyph for the second source character ($\underline{s} \underline{j} wo$) should actually be $\overline{\mathfrak{K} }$ not $\overline{\mathfrak{K} }$; thus the bottom right component of U+17105 should be $\overline{\mathfrak{I} }$ not $\overline{\mathfrak{I} }$.

This analysis is confirmed by the extant manuscript versions of *Joined Rimes of the Fives Sounds* which do indeed show \overline{g} (see Figs. 2 and 3).





U+172A4 刻 *tśja* is only attested in a single manuscript source, 颀 i 戴 *Joined Rimes of the Fives Sounds*, and is entry #6031 in the 2008 edition of Lǐ Fànwén's Tangut-Chinese dictionary (see Fig. 4).

2223 40 a transliteration [者]也。(音) 6031 疑 姚 教 t śja 1.20 t śior 1.90 l ja 1.20 【者:壯臘 (切)](韵圖 20:甲 39-17 左、丁 122-36 右)。即 tśja = tś (tśior) + ja (lja),亦即级 = 5(舰)+ 家(發)。

Fig. 4. Lǐ Fànwén, Xià-Hàn zìdiăn (2008) p. 948 entry for #6031

Lǐ Fànwén explains the character as being constructed from the left side of *Š tšior* and the left side and middle part of *š ljwa*, with the *fănqiè* 反切 spelling of *tšja* from these two characters. This implies that the right component of should be rather than . This is confirmed by the manuscript versions of *Joined Rimes of the Fives Sounds* which all clearly show on the right side (see Figs. 5 and 6 for two of the five extant examples). This glyph shape contrasts with the glyph shape for seen in printed and manuscript sources (sometimes 3-shaped):

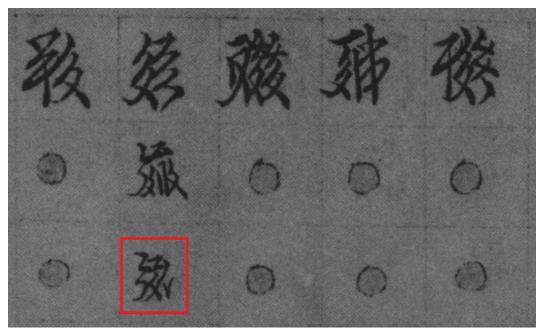
U+17B03 绿 (printed form)

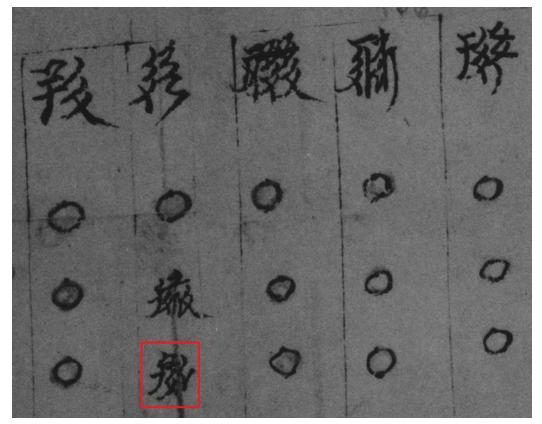


U+17B03 颏 (manuscript form)



Joined Rimes of the Fives Sounds 飯龍颏穮 MS A 12A

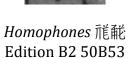




The only other character with \checkmark on the right side is U+17BD4 \aleph , and the woodblock printed editions of *Homophones* confirm that the right side is indeed the same shape as seen for U+172A4 in the manuscript versions of *Joined Rimes of the Fives Sounds* (i.e. \checkmark):

U+17BD4 彩





U+17BD1, U+17BD2, and U+17BD3 親 編 維

In the 2008 edition of Lǐ Fànwén's Tangut-Chinese dictionary the component to the right of *i* in the three characters U+17BD1, U+17BD2, and U+17BD3 is written full-height, i.e. \square *i* \overline{R} , \square *i* \overline{R} *i* and \square *i* \overline{R} *i* respectively (see Figs. 7, 8 and 9).

Fig. 7. Lǐ Fànwén, Xià-Hàn zìdiǎn (2008) p. 921 entry for #5848

9171 〔齒頭音 tshjo 1.51 胍 截 颏 七相切 音匠〕
42 to tie and strap something tightly
5848 勒緊也。(動)
5848 瓶 tshǐã 1.51 dzǐä 1.51 〔匠將〕勒緊(同 34A4)。

Fig. 8. Lǐ Fànwén, Xià-Hàn zìdiǎn (2008) p. 922 entry for #5854

9171	〔齒頭音 dzjo 1.51 儀瓶颏自搶切 音將〕
糖	to rein in; to tie or strap something tight
引代 5854	勒緊也。(動)
5054	艉陇 dzǐā 1.51 si 2.7[將西]緊勒(同 33B4)。

Fig. 9. Lǐ Fànwén, Xià-Hàn zìdiǎn (2008) p. 939 entry for #5964

翻	〔齒頭音 tsha 2.14 音操〕
5964	a transliteration
	〔操〕、〔粲〕、〔朝〕、〔參〕族姓、譯音也。(音)
	掘誗繡 tsha 2.14 mer 1.86 mu 2.25〔操彌没〕
	〔操〕:族姓(同29B2)。

U+17BD1
0 1/221

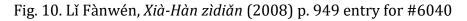
Sea of Writing	Homophones A 34A45	Homophones B 34B44	Pearl in the Palm A	Joined Rimes of the Five	Joined Rimes of the Five
1:58.161	La	A.	224E	Sounds A 6B	Sounds B 5A
補	油	循	编	価	TR

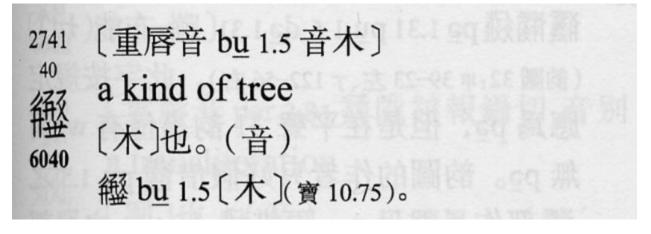
U+17BD2

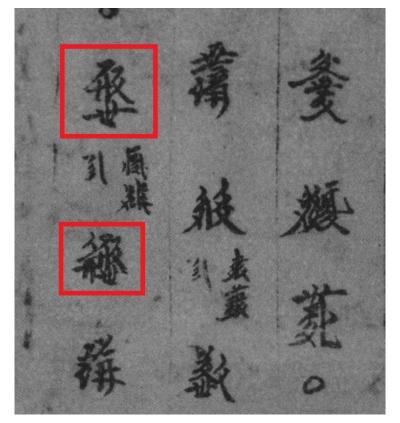
Homophones A 29B28	Homophones B 30A65	Grains of Gold 5A4	Forest of Categories 4:01A3	Mixed Characters 11B7
織	論	瓻	森	靜

U+17BD3

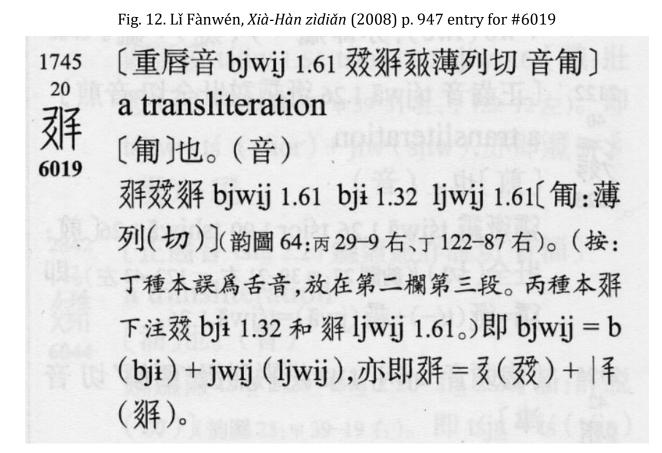
Sea of Writing 3:5.143	Homophones A 33B47	Homophones B 34A57	IOM Tang.27 29B
論	補	亂	補



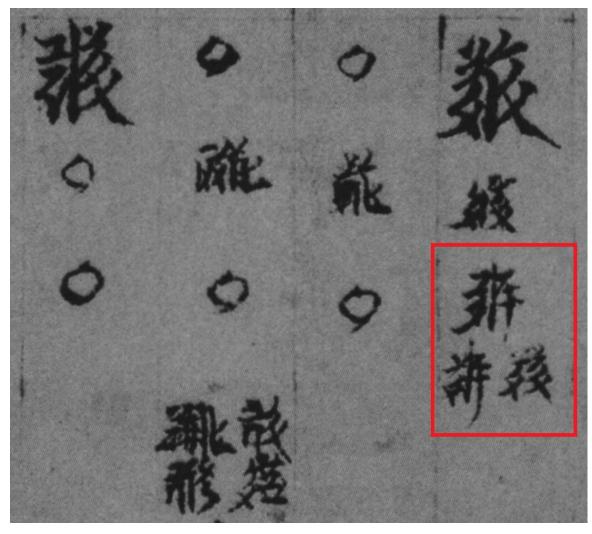


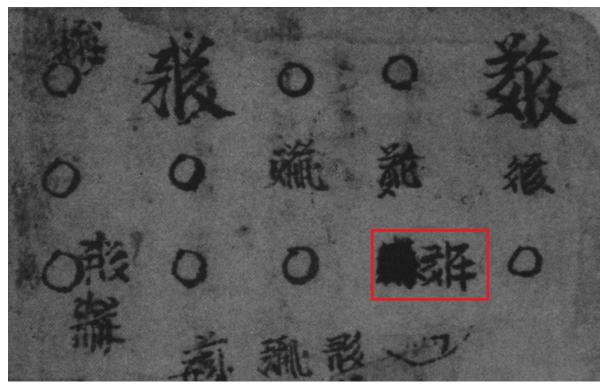


U+18136 *舜 bjwij* is only attested in a single manuscript source, 廠 能 *the Fives Sounds*, and is entry #6019 in the 2008 edition of Lǐ Fànwén's Tangut-Chinese dictionary (see Fig. 12).



U+18136 originally had the glyph form (with Component 316 on the left) in Unicode 9.0, but in Unicode 14.0 the glyph was changed to (with Component 768 on the left). This change was based on Lǐ Fànwén's explanation that the character is constructed from the left side of U+18156 成 *bji* (with Component 768 on the left) and the right side of U+180AD *J jwij*, with the *fǎngiè* 反切 spelling of *bjwij* from these two characters.





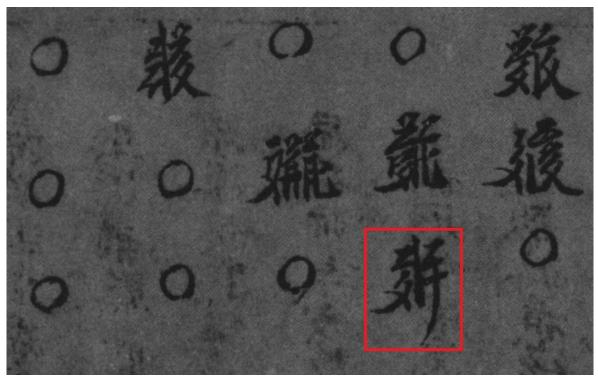


Fig. 16. Lǐ Fànwén, Xià-Hàn zìdiǎn (2008) p. 946 entry for #6007

Additionally, the radical for U+18171 was changed from 316 3/2 to 768 3/2 in Unicode 14.0 (see WG2 N5134; L2/20-166), but this was a mistake as can be seen from the actual glyph form in the original texts, as well as its presumed construction from the left side of U+18139 3/2.

