Some Cases for Case in Handarin Gyntax*<br>Stephen P. Baron<br>Bowlinf Green State University

In this essay, I will attempt to explain some conceptual differences vetween the syntax of American Finglish and Mandarin Chinese. The descriptive framework used will run alonf the lines of "case syntax" theory as first proposed and later extensively develoned by Cnarles J. Pillmore. ${ }^{1}$
$I_{\text {See, for }}$ instance, fillmore (1968a). I will also be drawine upon material presented in Fillmore's lectures on Case Syntax at the L5A 1970 Summer Institute.

Let me first point out two of the more salient similarities in Mandarin and linglish eramar relevant to our discussion: (a) both languages lack the highly developed surface case-marking systems of Latin, German, and Russian. Mandarin does not even inflect personal. pronoun object forms as does linglish. Also, (b) the preferred surface word order in both Kandarin and English is subject-verb-object. Jwo major differences should also be pointed out: (a) Mandarin can front a "topic of discourse" and follow it immediately with a surface subject, through a process which Fillmore calls "secondary tonicallzation" (Fillmore (1968e), 57). In English the corresponding form would be dialectal or sub-standard for most speakers. This point is strikingly illustrated when we look at the forms English and Mandarin have available for the description of inalienable body parts:
(1) weyg sheauharl yeoli hei de tourbaa
"that-child-has-black-SUB (subordinatinf narticle)-hnir" tripat child has black hair."
or in Fillmore's (1968a, 63-64) notation: $j^{\text {nom }}$ haye $\left[A \rightarrow 43^{\text {RCC }}\right.$ ] where $\mathrm{P}=$ possessor, $\dot{A}=$ edjective, and $\mathrm{B}=$ body part.
(2) WLYG FMEAUEADL DE TOUTWA HEI?
"that-child-SUB-hair-be black"
"That child's hair is black."

[^0]En tandarin, words like Hil ere s species of yerb, and do not require a copuia.

Bchenaticully, (a) could be represented as frem $\rightarrow$ b] be $A$.

> (3) AMYO BLEAULiARL TOURFA MAT
> 'that-child-bair-be black'

In Fillmore's notation, (3) clemrly seems to be a case of with finm Se fij. A somewat diglectal or substandard-soundinf: finflish oquivolent mifht be "hat cinild his hair is black'; otherwise, we would have to fall back upon the forms fiven in (1) and (2). Jote, however, that optional fronting of the direct oldect (usually for emnatic purmoses) is rrequent both in Aandarin and in Enelish:

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(4) HEY BEEN SHU VOO YTIJING TWN LN
    "that-M (auxiliary noun)-book-T-a1ready-read-my
    (final particle)"
    "rhat book I've already renk."
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(b) Kanderin has no special class of words corresronding to prenositions in biglisn. There does exist a fairly limited set of verbs which become lexically weakened and form verib-noun combinations exnressinr. mucir the same thimy as do English prenositional wrases. fince such constructions will be appearing in examples later on, they deserve a fairly detailed description here.

Verb-noun combinations of the aoove tyne may include as components:
A. CRV's - caserelator verbs, which show case relationshins betreen an Obfect, Source, or Goal end the rest of the fronosition. Some commonly used div's include:

Qw - literally 'to follow', correspondine in usare to English 'rith' or 'and' in the sense of' 'accompanied by' (Cf. Japanese to ). C'O. (5):
(5) WOO MINGTIMN GEN NII WAL, HAO BA? "I-tomorrow-with-you-blay, ok-rP?" "Let's you and me play tomorror, OK?"

GEFI - literally, 'to five', correspondine to linglish 'to' or 'for' in the benefactive sense. E.G. (6):
(6) TA GEEI WOO TEUOH LE JII JPMN TFW
"She? for-ne-make-hisl" (aspect marker)-several-Allclothes"
"She made me some clothes."

MWORNG - Iiterally 'to follow', corresponding to linrlimh 'from'. L.g. (7):
(7) NII TGORUG DAHLUH TAURCIULAI IE BA? "You-from-mainland-escape-AsP-irp?" "You escaped from the mainland?"

YONQ - Iiterally 'to use', corresponding to Enrlish "with" (+Instrument), but only in the oremeditative sense. For instance, (8); is possible, but not (9):
(8) TA YONO CHWEI'L' UINQ JINM LE I GEN DIKGTR "He-with-hammer-cirive-in-one-AN-nail". "He drove in a nail with the hommer"
(9) \#2A PZAY DIHQ JINH DIHGTZ DE GHYRHOWL YORQ CHWLTYZ DAA LE PA JE MNHJYY LE
"He-me at-drive-nail-SUB-time-with-hammer-nit-ANI" he-SUB-thumb-FP"
with the intended meaning:
"While driving the nail he hit his thumb with the hammer."

In other words, 'with' can be used with acciaental events, but not YONQ, although both introduce an Instrumental noun.

DAh - Iiterally 'to arrive, reach', corresponding to Mnplish 'to, toward, until'. H.E. (10):
(10) TOO DAN JONOCWO CIITUH LE
"I- to-China-go-ASY"
"I Hent to China."
TZAY - literally to be at', corresponding to nny of various Englisin rrepositions. "LZAY can be existential, e.ir. (11); or ajrectional, e.f. (12):
(11) WGO TRAY DAHSIMUE NIATI SHU
"I-at-university-read-books" "I'm studying at the university."
(12) WOO TZAY CHOUHIELL LITHOUR FAHZ LEE SAN BHEN FIM "I -into-drawer-inside-put-AEP-three-AN-hook" "I put three books in the drawer." (Cf. Latin in + Ablative vs. in + Accusative).
E. Nendarin also has a class of words we might call cha's (case-relator nouns), which indicate position and thus often act as Sources or Goals, e.f.
LII-WUK) - the inside part
howiOLK - the part benind
CHYAdNOLK - the part in front of
GHRAO(TUUR) - the part ebove, the top of
SHIAHBIAL - the part beneati, below
dOiGdifad - the part between

CRH's can combine with other nouns in a penitive-like relationsbin e.r. CiTOUPIELL (DE) HOWHOUR "ararer-GUBmbehind part" or "wehind the drawer" where CHOUATLLL is in the Dative case and Di: is a nubordinating partiele winch oceurs idionymeratically before Cfis's. inote also that clin's combine with Cav's (often rady and DAv) to form phraseg ilye

$$
\begin{aligned}
& \text { - }\left\{\begin{array}{l}
\text { Into } \\
\text { In }(t o)
\end{array}\right\} \text { the arawer'. (cf. (12)) }
\end{aligned}
$$

As in linflish, Handarin nouns dominated by the hgent node often become surface subjects, 3 whereas those dominated by the object node

3 fandarin has no Chy phrase correspondinf to hrlish 'sy' + Agent.
become direct objects. Neither Agent nor Object has any CRV explicitiy associated with it. liso, in Fropositions where the vero syntactically requires a Goal and optionally allows an Object, those two case categories may in certain cases be distinguished only by word position and semantic environment, rather then by a CRV. For instance:
(13) WOO yab WUMi hil I g yenntya
"I-want-ask-use-one-fil-question"
"I want to ask you a question."
but not
(14) *WOO YM GEEI NII WHMN I G WERTTYI
(cr. Enplish ${ }^{\prime}$ I want to ask to you a question.)
Also,
(15) MA TDEAL CHYAN DOU BU GEEI WOO
"He-a bit-money-ali-not-give-me"
"He wouldn't give me e cent."
but not
(16) *2a ideal ciryan you bu geei geei woo ${ }^{4}$.
${ }^{4}$ Which verbs require a CRV with what case nodes, and also how case-realtor phrases are thenselves positioned in the sentence, are problems too complex to discuss here.

In "Lexical entires for Verbs", Fillmore (1968a; 57) notes that the vert 'hit' in English conceptually requires an Instrument, a Place (we will be usinf the term 'Object' here) and allows an optional fgent. If we assume such terms as Afent, object, and Instrument to ve case universals, then the Mandarin verb DMA is one fairly close conceptual equivalent to English 'hit', Syntactically speakinf,
${ }^{5}$ Some minor semantic differences between 'hit' and DAA will become evident later (see note
however, there are some differences:
(a) In Kandarin, the Object of DAM does not have to surface if it is understood; in fact, if the understood object is non-human, it rarely surfaces at all. For example: (17) becomes (18):
(17) MAU TZERDONG DAA LE CHUANGHUH LE
"Mao Tse-tung-hit-ASP-window-Fp"
"Mao Ise-tung hit the rindow."
(18) MAU 'qERDONG DAA LE
"Mao Tse-tung-hit-FT"
"Hao Ise-tung hit it."
There are actúslly many Mandarin verbs whose syntactic case frameworks may be permanently or optionally identical to that of DAM; these verbs may also opt for non-surfacing of an understood object, e.p.
(19) MAU TZERDONG TOU LE
"Mao Tse-tung-steal-Fp"
"Mao Tse-tung stole it."
(20) Lin biau mae le
"Lin Piao-buy-FP"
"Lin Piao bought it."
In contrast, English must express a third-person object pronoun (at least when an Agent has also been surface-expressed); sentences like "ile hit, *He bought, or He stole are not allowed. 6
$\sigma_{\text {At }}$ least, ${ }^{\text {He hit, }}$ etc. are unacceptable as responses to questions of the type Did he hit it?.
(b) In Engiish, we can have at least two different forms when the Object of 'hit' is somone's inalienable body part, e.f.:;
(21) "Mao ITse-tung hit Lin Piao's nose"
where the Dative 'Lin Piao" surfaces with the possessive marker 's'; and also
(22) "deo nge-tung hit Lin jiao on the nose"
where 'Lin Piao' receives no particular surface marking, althouph it is still Dative.

In Mandarin, only one form is available, correspondinp to (21) e.E., (23), never (24).
(23) HAU TYERDONG DAA LE IIN BIAU DE BYITZ LE
"Heo Tre-tung-hit-ASP-Ein Piso-SUB-nose-FP"
"Nao 'rse-tung hit Lin Yiao's nose"
(24) \#MAU LZEKDONG DAA LE LIII BIAU TZAY RYITZ (SHANG) LE
"Neo Tse-tung-litt-ASP-Lin-Piao-on-nose('s top)-FP"
This is interesting because as we saw earlier (3), Mandarin does permit an unarked Dative when the body part is the surfece subject.
(c) In English, it is frequent for the Instrument to surface as subject with verbs like 'hit', e.f.:
(25) "Ihe piano keys activate hamers, the hammers hit strings, and the strings produce sounds"
(26). "The beall hit the kindow, shatterine it"

The Object of a Proposition may also become subject under certain conditions:
(27) "Ine window wes hit several times"

Although in Mandarin, some of the rules for subjectivizing Instruments and Objects are quite similar to those in English, others are quite different. We will discuss these rules in more detail shortly.

We now turn to a comparison of English 'break' and Mandarin POH, where these verbs belong to a set of verbs in either language which refer to the falling apart of an Object under impact or pressure. For example:

| English: | break <br> shatter | Mandarin: |
| :--- | :--- | :--- |
|  | POH |  |
| collapse |  | SUEY |
| snap |  | KOA or IA |
|  |  | DUANM |

Conceptually speaking, it is difficult to say that there is any difference between 'break' and POH type verbs. Both require an Dbject, tolerate an Instrument, and allow an Agent only when an Instrunent is conceptually present. Syntactically speaking, however, 'break' and FOH are quite different, in ways one mipht not suspect. That is, the frerquent occurrence of Englisn 'break'-type verbs with Object alone tends to blind us to an important fact: almost every linglish vero that has a syntactically obligntory object cen express an appropriate Apent and/or Instrument within the same simple Pronosition:
(28) "Mao I'se-tune broke the window."
" $A$ rock broke the window."
"rine window was broken by Meo Tse-tung/a rock."
"Mao Tse-tung broke the wincow with a rock.", etc.
The few exceptions in English include 'collide', 'die', 'fell', 'rise', and 'arise'.

With POH and dozens of other verbs in Mandarin, ${ }^{7}$ practically the

TSee Chao ( $2968,444-46$ ) for a list of such verbs.
opposite is the case. We can say (29) but never (30) and (31):
(29) CHUANGHUH POH LE
"The window broke."
(30) *MAU TZERDONG POH LE CHUANGHUH LE
"Mao Tse-tung broke the window."
(31) *SHYRTOUR POH LE CHUANGHUH LE
"The rock broke the window."
In other words, only the Object can surface when POH is the only vero in the Proposition.

If, then, Agent and/or Instrument are conceptually present with verbs like POH, how might they get expressed? There are several possibilities:
(32) Two simple sentences:

MAU TZERDONG DAA LE CHUANGHUH LE; CHUAMGHUH POH LE "Kao Tre-tung hit the vindow, the window broke."
(33) A subordinate clause linked to an independent one: MAU TZERDONG DAA LIS CHUANGHUH YIIHOW, CHUAINGHUK "after"
JIOW POII LE
"then"
"After Nao Tse-tung hit the window, the window then broke."
(34) A sentential subject with the mein veru indicating. 'cause': :
ZAU JZBERDONG DAR CHUANGHUF SHYY CHUANGILII TOH IE
'cause'
Weo lise-tunfy ${ }^{\prime}$ hitting the window caused the window to break. 18
$8_{\text {Sentential subjects require no special marking in Mendarin as }}$ they do in English.

One other alternative, in fact, the one most frequently used, the resultative-complement construction (RCC). Here the Agent (c.g. MAU) becomes subject, the instigative verb (e.g. DAA) and the resultative verb (e.g. CHUNGHUH) surfaces as the direct object, fiving:
(35) KAU TZERDONG DAA POH LE CHUANGHUH LE "Mao lise-tung broke the window (by hitting it)."

One recent transformational analysis of RCC's can be found in Anne Y. Hashimoto's Brbedding Structures in Mandarin (1966, 135-54), where the author proposes the following deep structure diagram (nodes are filled in with lexical items from (35):9

9Hashimoto (1966, 234). Although Hashimoto gives the structural diagram for a slightly different sentence (it has a negative and no final particle; (35) vice versa), the terminology we are using is Justified by trees given elsewhere in her work (cf. 235-36 and 150-53). Hashimoto's node labelling conventions are followed exactly, except that FP has been substituted for $F$ (final particle).
(36)

'lo sumarize briefly, Hashimoto's resultative transformation (p.232-33)
collapses tore cher elements of $\mathrm{VP}_{1}$, deleting the extra CINANGFH and leaving the surface structure: (p. 234, Comments as in note 8)
(37)

which yields (35) upon aspect-transportation. ${ }^{10}$
${ }^{10}$ In preceding tree structures and in ones to follow, aspect and final particle nodes will be represented only in a most ad hoc fashion. Kendarin asyect is too complicated subject to discuss formally at this time; in any case, its presence or non-presence, whether it should be associated with the $V$ node or instead the Mod node, and so on, are not too eritical to our arguments.

I will now propose another deep structure tree to account for HCC's, not because I think Hashimoto's analysis is basically "wrong", but vecause I feel that case syntax can provide some new insifhts into the problem:
(33)


The above tree is ostensithy derived from sentences of the type (34); the instigative sentence MAU DAA CHUMAGHUH is embedded as the Instrument of causation, whereas the resultative sentence CHUAVGHUH FOH is the Object of causation. Rhis is actually quite close to the argument Filimore mentions for deriving "Fred broke the lens" from "Fred cause (the lens break)":
"In each cese the subject of the underlying verb CAUSE is the subject of the transitive sentence; the analysis interprets the sentences as representing the proposition that the entity 1 dentified by the suoject

ISP of CAUSE is causer of an event characterlzed by the intransitive sentence." (Fillmore (1970) 35-36).

The steps for deriving the correct surface structure (35) from (350 are quite similar to those in Hashimoto's transformational rule. First, senantic elements of the object sentence are matched against those of the Instriment sentence; identical elements are collapsed as one. In most cases, it is the objects of the object and Instrument sentences that are semantically the same; thus, in (38) the collapsed elements are the two cluarghur's. Hon-matching elements are simply concatenated, so that in the case of (38), we get a new "verb": DAA-POR. Thus, upper I and 0 nodes necessarily lose their separate identities and must be deleted, as must the verb sHYY, which now groverns no nodes at al3. This leaves us with the following:
(39)


Since Prop now governs only one node, which is itself a sentence, we can simply delete the $S$ node. After subject raising and modal adjustments, we get:
(40)


RCC's can be surface-negated in at least two ways, reflecting different modal values.: In the first case,
(41) MAU TIEERDOHG BU (YEOU) DAA-POH CHUAVGMUH ${ }^{\text {II }}$
${ }^{11} \mathrm{BU}$ is negator of the Veri Fhrase in Mandarin; when the verb is marked for the completive aspect, BU usually changes to MEI (YEOU).
the deep structure ropresentation is (42).
(42)


With the literal meaning: "Mao may or may not have instigated the event described in the Instrument sentence; in any case, he did not cause the event described in the Object sentence to happen". Whis can be used in several situations:
(a) Hao hit the window, but he didn't break it. In any case, breakage of the particular window definitely did not occur.
(b) Hao hit the window, but it wasn't Mao who broke the window, although breakage of the particular dia occur. Perhaps Lin Piao broke i.t.
(c) Mao had nothing to do with the hitting and possible resultant breakege of a particular windos. Whether the said window was hit and thereby possibly broken is not specified or known.

In the second case, the negative marker occurs after DAA and before POH :
(43) MAU teERDONG DAA BU POH Chuavghun

With the following deep structure:


Literally, (44) means: "Moo instigated the event described in the Instrument sentence in an attempt to cause the event described in the Object sentence to happen; his attempt was unsuccessful." In other words, "Mao hit the window in an attempt to break it, but he couldn't get it to breek."12
${ }^{12}$ In this position, EU does not inflect remarless of whether Aspect is present in the deep structure. Thus, without a context, (43) can be interpreted either as completive or non-completive; we have chosen the completive alternative here.

The positive potential may also be marked in the same position as Bl in (4), with the particle DE:

> (45) MAU TWEFDONG DAA DE POH CHUANGIUH
> "Mao Tsomtung int the window in an attempt to break it and in fect got it to break."

The deep structure tree for (45) looks like the tree for (44), except that Mod does not contain Neg.

The above analyses are justified by the fact that there exjst sentences synonymous with (32) and (34) but which use the expilicit notential verb HENGCOW "be able":

(47) MAU TZERDONG MEI NENGGON DAA POH CHUAIVGHU (cf'. (43)).

The corresponding tree structures are the sane, except that this time the potentigl node gets realized as MEMGGOW.

As we noted earlier, there are certain restrictions on the syntactic expression of Instrument in sentences with verbs of the type DAA and POH. When POH occurs alone, there is no sentence position in which a noun can surface as Instrument. However, with DAA or DM-FOH type constructions, an Instrument may surface in ore of three sentence positions, depending largely on whether or not it is used in a premeditative sense.

When a noun is used non-premeditatively as an Instrument, this means that it was not used as Instrument by any fgent at all, or if it was, the Agent played a minimal (or perhaps irresponsible) role. In any case, an Agent and a non-premeditative Instrument (NPI) cannot co-occur within the same Proposition. Nouns which often act as NPI's can be categorized in the following manner:
I. Quasi-Agentive NPI's. Such Instruments are "almost" Apents In that they are viewed as acting of their own power, although, unlike true Agents, they cannot themselves govern Instrunents. QuasiAgentive IPI's can always surface as the sentence subject, the first of the three possible positions open to Instrumenss in Mandarin. They include:
(a) Natural phenomena and disasters such as lightning, typhoons, earthquakes, hailstorms, floods, famines, and so forth; e.f.:
(48) LEIDTANH DAA DAO LE SAN KE SHUH
"Lightning-hit-overturn-ASP-three-AN-tree"
"Lightning struck down three trees."
Since the occurrence of such events is vitimately beyond human control,
they are invarisbly non-iremeditative when used as Instruments.
(b) Instruments involved in processes and actions which are largely automatic, reouirine a minimum of Afental instigation, if eny:
(49) GANGCHYMJINH SHYY CHEWEITZ HWODONO; CHWEITZ DAA SHYAN; SHYAH FACHU SHENGIN
"Piano keys-cause-hamers-move; hamers-hit-strinps; strines-produce-sound" (cf. (25)).
(c) Instruments like vehicles, trains, ships, airplanes, and so forth, whose operation requires such constent human supervision and control that such Instruments apparenty get identified "as" rather than "vs." their Agent utilizers:
(50) CHETZ DAA-DAO LE DIMNMSHIANNGANG LE
"car" "telephone pole"
"The car knocked down the telephone pole."
II. Non-quasi-Apentive NPI'S. Nouns that can be used as this tyve of Wpi include rocks, trees, implements, furniture and other inmobilia; in eeneral, anything capable of being instrumental in an "accidental" or "passive" way. Non-Quasi-A.gentive NPI's usually end up as the subject of the Proposition:
(51) HEY PIARN BOLI CHIEH SHANG LE WOO DE JENU LE
"that-piece-glass-cut-injure-ASB-I-SUB-foot-FP"
"That piece of glass injured my foot."
(52) ineybial de ney jy shuggen bahn dao le mau juughyt ley
"over there-GUB-that-AI-tree root-ensnare-overturn-ASP-KBo-chairman-FP"
"rhat tree root over there tripped Chairman Kac."
(53) SHYRYOUR PENQ POH LE WOOMGIS DE DAANGFEMGBOLI LE "rock-collide with-break-ASP-we-BUB-windshield-Fp?"
"The rock brote through our windshield."
Things get more complex when we try to use nouns like sifyrtour as non-quasi-Agentive NPI's with verbs like DAA 'hit' and TUEI 'push', Apparently DAA and Tued require at least a conceptual Agent where the associated Instrument does not imply one strongly enourh. In any case, sentences like
(54) *SHYHIOUR DAA LE CHUABGGUH LE *SHYRTOUR DAA POH LE CHURNGHUH LE
are unacceptable. This does not mean that we cannot express the desired relationship between SHYRTOUR as an NPI and, say, DAA FOH; rather, we use a different construction. The string SHYPTOUR DAA POH Crivitginh is simply embedded as the Instrument node of a higher vero, bEY, which takes as its syntactically required Doject of the
appropriate low rerb. Sentences with BEY are often translated into English with the nassive.

The deen structure for ber sentences is as follows:


Transformations operating on (55) include the RCC-forming rules: CHOAGHUH in lorer Duject node is collapsed with CHUAHGHIN in the lower Instrument node; lower $I$ and $O$ nodes and SIIYY are then deleted. Next, CHMANGEH as Object of DAA POH is collapsed with CHONGMH as Object of BEY. After an obligatory fronting rule has apnied to CHJANGHO, the following surface structure is reached:
(56)


Or:
(57) CHUAMGHU BEY SHYRTIOUR DAA FOH LE "The rindow was broken by a rock."

What we are saying in (57) is that the rock was not an Instrument totally through natural causes (as in (53)), but that some Agent threw it. ${ }^{13}$ On the other hand, we are leaving open the question of

13 A comparison Detween (57) and (53) brings out one semantic difference between 'hit' and DAA: 'hit' can be used to imply an accidental collision, whereas in Mandarin, PENQ, not DAA, must be used. Hote, however, that if SHYRHOUR is somehow involved in an automatic process (cf. (49)), DAA can still occur.
in whet way the action was pre-meditated: the Agent may have meent the rock for a different window, or perhaps not even a window at all. In any case, the overwhelmine emphasis in (57) is still on the Instrument of breakage rather than on the Agent. If we wish (in the same Proposition) to say that an Agent used a rock specifically for breaking a particular window, a different construction must be used. ${ }^{14}$
${ }^{14}$ This is one reason why the Instrument in (57) should be translated with 'by' rather than with 'with'. To me, at least, 'with' would imply that the action was purposefully directed against the window in question.

It should be further noted that the BEY construction can optionally apply to sentences with surfaced Agents, type I NPI's, and type II iVI's (with verbs as in (51)-(53)); e.g.
(58) Chuanghun bey má tzerdong daa poh le
"Ihe window was broken by Mao Tse-tung."
(59) WOO de JEaU bey ney pianh boli chieh shang lit
"ly foot got injured by that piece of glass."
(60) SHUH BEY LEIDIATM DAA DAO LE
"The tree was knocked down by lightning."
The transformations anplying to (58)-(60) are basically the same as for (57). Finally, some speakers of Mandarin omit the surfaced Agent or Instrument in BEY sentences where they are understood:
(61) WOO DE JEAU BEY CHIEH SHANG LE (cf. (59); BOLI is understood)

Compare this with the somewhat similar deletion of the 'by' phrase in the English equivalent 'My foot got injured'. 15

15 One minor restriction in the use of the BEY construction with RCC's is that the identical elements of the Instrument sentence and the Object sentence must both be objects (the majority of rCC's in fact follow this pattern). Occasionally it is the case that the Agent of the Instrument sentence and the Object of the object sentence qualify as identicol elements, e.g.:
(i) thaiden chy bao lie fand le
"they-eat-fill-ASP-rice-F'P"
"They ate their fill of rice."
where TAMEN CHY FANN 'Ihey eat rice' is the Instrument gentencean and TAMEN BAO 'They get full' is the Object sentence. In such cases, the Bay construction cannot apply:
(i1) Pfann bey tamen chy bao Le

We now turn to Propositions in which an Instrument is involved premeditatively. This means that the Object of the Proposition is part of a goal which has definitely been pre-defined by an Agent, ${ }^{16}$
${ }^{16}$ Contrast this with ( 57 ), where the resultant-event may or may not coincide with the goal-event intended by the Agent.
and that the Instrument in question has selected by the Agent specifically for the achievement of this goal. The preceding restrictions are reflected in the surface realization of the Proposition in the following manner: (a) The conceptually obligatory Agent must surface either 1) directly, as the sentence subject, and/or 2) Indirectiy, through an auxiliary verb at the sentence head, which always implies an Agent when the Instrument has veen tagged with YoNQ. 17
${ }^{17}$ Some typical auxiliary verbs include KEEYII 'can, may', INGGAI 'ought to', NENGGOW 'be able to; be possible to', DEEI 'must'. In cases where these verbs appear in the sentence head position with no subject, the closest English equivalent is either (a) a modal with the neutral pronoun 'one' as subject (e.f. 'one can', 'one must', etc.) or (b) 'it' + a modal adjective (e.g. 'it is possible to', 'it is necessary to', etc.).

In any case, the sentence can never be embedded as the Instrument node of a BEY construction.

The following deep structures represent possible sentences with premeditative Instruments:
(62)

(63)


Transformations much like those winch produce RCC's, alone with a YONQ insertion rule, will apply to (62) to yield
(64). haU TZERDOMG YONG CHMEITZ DAA POH LE CHUAHGIUH LE "harmer"
"Mao Trse-tung used a hammer to break the window."
and to (63) to yield
(65) KeEYYI YOMQ CINETIZ DAA POI CHUANGHUH "can"
"One can break the window with a hamer."
"It is possible to break the window with a hammer."
or if Agent is opted for,
(66) MAU TZERDONG KEEYII YONQ CHWEITZ DAA POH CHUNGHUH "Mao Tse-tung can break the window with a hammer."

As with (46)-(47) (although the fact was not noted there), the subjectfronting rule must move the Agent to before the auxiliary; there is no ( 67 ).
(67) *SEEYII MAN TZERDONG YONG CHWEITZ DAA POH CHUNGGHH

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