

U.S. PATENT NO. 8,265,096: CHALLENGED CLAIMS

Claim 1 and dependents	Claim 8
1[pre]. A method of constructing a frame structure for data transmission, the method comprising:	8[pre]. A method of constructing a frame structure for data transmission, the method comprising:
1[a]: generating a first section comprising data configured in a first format compatible with a first communication system using symbols;	8[a]: generating a first section comprising data configured in a first format compatible with a first communication system using symbols;
1[b]: generating a second section following the first section, the second section comprising data configured in a second format compatible with a second communication system using symbols, wherein the first communication system's symbols and the second communication system's symbols co-exist in one transmission scheme	8[b]: generating a second section following the first section, the second section comprising data configured in a second format compatible with a second communication system using symbols, wherein the first communication system's symbols and the second communication system's symbols co-exist in one transmission scheme
1[c]: and wherein: the second format is compatible with the second communication system configured to support higher mobility than the first communication system, wherein each symbol in the second communication system has a shorter symbol period than that in the first communication system;	8[c]: and wherein the second communication system has pilot symbols that are denser than those in the first communication system;
1[d]: generating at least one non-data section containing information describing an aspect of data in at least one of the first section and the second section; and	8[d]: generating at least one non-data section containing information describing an aspect of data in at least one of the first section and the second section; and
1[e]: combining the first section, the second section and the at least one non-data section to form the frame structure.	8[e]: combining the first section, the second section and the at least one non-data section to form the frame structure.

<p>2. The method of claim 1, wherein the non-data section comprises mapping information for at least one of the first section and the second section.</p>	
<p>3. The method of claim 1, wherein the non-data section comprises at least one of a preamble, a frame control header (FCH), a burst, and a map of at least one of the first section and the second section.</p>	
<p>4. The method of claim 3, wherein the second section follows the first section in at least one of time sequence and frequency spectrum.</p>	
<p>6. The method of claim 1, wherein each of the first section and the second section carries at least one of uplink and downlink data.</p>	
<p>7. The method of claim 1, wherein the second section carries mapping information for data in the second section.</p>	