

ABSTRACT

BATTERY POWER CONSERVATION IN A SELECTIVE CALL SYSTEM

5 Selective call systems such as the CCIR Radiopaging Code No. 1
(or POCSAG) has a signal format giving an inherent battery power
conservation duty cycle of 1:8 requiring a bit synchronised pager
to energise its receiving section to receive the synchronisation
codeword and again for the duration of its assigned frame in each
10 batch. For those pagers wanting to operate in accordance with a
longer duty cycle, successive superbatches of N batches are created
and the pager is assigned to say one frame only of the superbatch.
However in order to obtain synchronisation in the superbatch, a
predetermined codeword (PCW) is transmitted in the first frame of
15 the first batch of the N batches. A pager which has achieved batch
and superbatch synchronisation de-energises its receiving section
until its assigned frame. The transmission of a predetermined
codeword once in every N batches is transparent to the pagers
operating the 1:8 duty cycle and also facilitates recovery of
20 superbatch synchronisation in deep fade and carrier lost
situations.

25 (Figure 3)

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