

A
Collection of Compositions
of
STEDMAN TRIPLES
and
ERIN TRIPLES

Compiled on behalf of
THE PEAL COMPOSITIONS COMMITTEE
of the
CENTRAL COUNCIL OF CHURCH
BELL RINGERS

by
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Introductory Notes

Acknowledgements

Much of the material presented here is based on private collections made available to me by the late Anthony W T Cleaver and Alan G Foster, the latter compiled largely from the notebooks of the late Maurice Swinfield, and I am grateful to them for relieving me of much of the hard work in getting together a stock of compositions from which to make a selection. I am also indebted to Peter J Sanderson and Roger Bailey, successive chairmen of the Peal Compositions Committee, for suggestions as to the material to be included and its presentation, and to Graham N Scott for alerting me to mistakes in the draft (which led to the discovery of a bug in my software, and the avoidance of embarrassing errors). Thanks are also due to Andrew Johnson, Brian D Price and Edward W Martin, for providing some of the more interesting new peals while I have been compiling this collection.

Notation

a) Twin-bob peals

In peals **1-38** bobs invariably come in pairs at one of four positions where the observation bell (the 7th) is unaffected by the calls, while singles always affect the observation bell. The notation used here is based on that originally adopted by Sir A P Heywood. Pairs of bobs are denoted by "x" and relate to the position of the observation bell. If there are no singles, the calling positions are as follows:

S – bobs at 3 & 4 (**S**low)

H – bobs at 5 & 6 (**H**alf Turns)

L – bobs at 7 & 8 (**L**ast Whole Turn)

Q – bobs at 12 & 13 (**Q**uick)

Because singles affect the observation bell, the length of the course is altered. The calling positions again relate to the position of the observation bell. Note that:

- A single at 2 brings up the course end immediately.
- A single at 14 causes the course end to be omitted. In this case the course end is given in brackets and calls at S in the following course will follow immediately.
- Although the length of the course is altered, the calling positions still relate to the observation bell, so that, for example, if there is a single at 11 (adding two sixes) bobs at Q will be at 14 and 15, and a single at 14 in fact occurs at 16.
- Where the observation bell makes sixth's twice or more in succession this is indicated by a number in the appropriate column (e.g. no **12**, where 4s under column 2 denotes that the 7th makes sixth's at four successive singles).

b) Multi-bob peals

In the remaining peals of Stedman (**39-93**) and the peals of Erin, the calling positions are strictly the number of sixes since the previously shown course end. In some compositions the length of the courses varies. In this case courses that do not contain all of the indicated calling positions are terminated by a bar following the last six.

The task of checking the truth of compositions with a general-purpose proving program is particularly onerous for Stedman Triples, and even with the aid of a computer there is still the possibility of errors in transcription. For this reason the approach adopted in compiling this collection has been designed to ensure that what is printed is precisely what has been proved. With the exception of the two peals in the Spliced section, all of the peals have been transferred into this document directly from software developed specifically for this task. Indeed truth is checked as each composition is entered and in theory it should not be possible to save a composition that is not both true and complete (all peals are of course 5,040 changes). However one cannot guarantee that computer software is infallible.

Because of the need to specify each composition precisely to the computer, it will be seen that there are no bracketed calls to be called in some parts only, nor any text footnotes defining alterations in the calling. Whilst removing any possible ambiguity, this does mean that some of the features of a peal may not be apparent at first glance, and many will repay careful study.

Selection of Peals

Stedman Triples poses particular problems to the peal composer that do not arise in other commonly rung methods. A peal composition must consist of an extent yet there is no set of plain courses which together make up an extent. We must therefore look elsewhere for the basic building blocks, and it is in the choice of these blocks that the great variety in possible compositions arises.

There are essentially two types of composition, those based on bobbed courses (B-blocks) and those where the course ends form a group (*Regular Course-end Plans* in the terminology of J W Parker). Twin bob compositions form an important subset of the latter.

In selecting the compositions for inclusion in this collection my aim has been to satisfy the needs of both composer and conductor. The emphasis given to the various types of construction is by no means representative of what is rung – perhaps 90% of peals rung are to twin-bob compositions and of those the majority are variations of Thurstans'. Peals **1-38** should provide enough variety here, but once the structure of twin-bob peals is understood there is no more difficulty in rearranging the courses than for a plain method. Of much more interest to the composer are peals on other regular plans (**39-74**). Peals based on B-Blocks (**75-93**) are of interest principally as a challenge to the conductor and are relatively straightforward (although laborious) to put together.

Although this is essentially a Stedman collection, there is clearly much in common between compositions of Stedman and Erin, and a selection of peals of Erin has been included, as well as two of Spliced.

All the compositions included use only common bobs and singles. Although some elegant arrangements can be found with unusual calls, I feel that there is sufficient variety here without including these (apart from complications with proving such). Equally it is assumed that all peals start with rounds as the fourth row of a quick six, although being round blocks, any could be started at any point. In some cases the advantage of an alternative start is stated.

I have taken the liberty of transposing or reversing some compositions to fit in with personal preferences. I apologize to any composer who feels that this or the layout chosen detracts from the appearance in any way. Finally I must apologize for including so much of my own material – some peals are personal favourites, others composed to fill gaps in the collection, but I hope all are worthy of inclusion.

Twin-Bob Peals

Thurstans' Four Part and Variations

Thomas Thurstans' four part [1] was the first peal to be rung using bobs and only two common singles (St Martin, Birmingham, 18 May 1846), and a study of its construction is worthwhile, revealing many of the features of twin-bob compositions. Four mutually true quarter peals can be rung by ringing the three course block "T" below five times, yielding the following part-ends (at the fourth rows of quick sixes):

"Rounds"	"Reverse Rounds"	"Queen's"	"Reverse Queen's"
1234567	5432167	1352467	4253167
2345167	4321567	3524167	2531467
3451267	3215467	5241367	5314267
4512367	2154367	2413567	3142567
5123467	1543267	4135267	1425367

These part-ends form a group (*i.e.* any transposition which can be applied to one element to give another will give an element of the group whichever it is applied to) and in the language of group theory the rows of a block form a (right-) transversal of the group of part-ends in the extent of Triples. A search reveals that there are just four blocks with the 7th unaffected that will give four mutually true quarters:

T		U		V		W	
231456	S H L Q	231456	S H L Q	231456	S H L Q	231456	S H L Q
246351	x x	536421	x	146532	x x x	356412	x x
432561	x x x	345261	x x x	432561	x x	512463	x x
342516	x	125346	x x	342516	x	342516	x x

Blocks "T" and "U" differ only in the position of the calls at L, the rows of the six between the two bobs at L in block "T" occurring between a pair of bobs at L in a different quarter called "U". Similarly the rows of the six between the two L calling positions in the third course of "T" occur in the corresponding six of the first course of block "U" in a different quarter. This can be used to join the four quarters into two halves of a peal: calls are added in two quarters ("extras"), while the calls around the corresponding false sixes in the other two quarters are omitted ("omits"). The two halves of the peal are then joined by a pair of singles [1-3]. Alternatively, if three or more pairs of singles are used, the extras and omits can be avoided [4-8]. Block "U" can be used as the basic calling, as in [9], and blocks "V" and "W" work together in the same way [10-12]. Blocks "T" and "V" also differ only in the position of one pair of bobs, but in this case the extras and omits occur in the same half of the peal, and so cannot be used to join the quarters. Blocks "U" and "W" are similar. However, using more than one set of extras and omits, blocks from the different pairs can be included in the same peal [13], as indeed can all four [14].

1 Thomas Thurstans

Four Part

231456	2	S	H	L	Q	14	
246351		x		x			T
432561		x	x		x		
342516		x					
514236				2T			
526134		x		x			E
215364		x	x		x		
435216		x	x				
541326				4T			
125346				E			
136245		x		x			
321465		x	x		x		
(524361)		x				s	
254316		x					
315426				2T			
216435		x					O
142365		x	x		x		
412356		x					
245136				4T			
143256				O			
421536				T			
456231		x		x			
524361		x	x		x		
231456		s					

3 Nathaniel J Pitstow

Transposition of Thurstans'

231456	2	S	H	L	Q	14	
246351		x		x			T
432561		x	x		x		
342516		x					
453126				T			
416523		x		x			
154263		x	x		x		
523416		s					
245136				T			
346125		x					O
413265		x	x		x		
143256		x					
315426				4T			
412356				O			
351246				2T			
326541		x		x			
253461		x	x		x		
(154263)		x				s	
514236		x					
526134		x		x			E
215364		x	x		x		
435216		x	x				
541326				4T			
125346				E			
231456				T			

2 Arthur P Heywood

Transposition of Thurstans'

231456	2	S	H	L	Q	14	
346125		s					
413265		x	x		x		
143256		x					
126453		x		x			E
241563		x	x		x		
351246		x	x				
326541		x		x			T
253461		x	x		x		
523416		x					
134526				3T			
421536				E			
315426				3T			
(231456)		x		x		s	
536421		x					O
345261		x	x		x		
435216		x					
541326				4T			
342516				O			
231456				4T			

4 William A Cave

variation of Thurstans'

231456	S	H	L	9	11	Q	
246351	x		x				A
532146	x	x			s		
516342	x	x					
135462	x	x				x	T
315426	x						
143256						T	
541326						A	
324156						2T	
523416						A	
351246						4T	
326541	x		x				B
253461	x	x				x	
123564	x		s			x	
213546	x						
152436						T	
421536						B	
254316						T	
342516						B	
231456						4T	

5 Frederick H Dexter

No 1 variation of Thurstans'

231456	2	S	H	L	Q	14	
246351	x		x				A
432561	x	x		x			
(135462)		x				s	
315426		x					
523416		2A					
546213	x		x				T
425163	x	x		x			
245136		x					
351246		3T					
326541	x		x				B
253461	x	x		x			
541326	s						
213546		3T					
143256		B					
532146		3T					
342516		B					
231456		4T					

6 Frederick H Dexter

No 2 variation of Thurstans'

231456	2	S	H	L	Q	14	
(523416)	x		x			s	T
(152436)	x		x			s	
(315426)	x		x			s	
346125	x		x				
413265	x	x		x			
143256		x					
315426		4T					
146532	s						A
451362	x	x		x			
541326		x					
152436		4T					
245136		A					
523416		4T					
342516		A					
231456		4T					

7 John Pladdys

No 15 variation of Thurstans'

231456	2	S	H	L	9	11	Q	14	
523416	x		x		s				A
152436	x		x		s				
315426	x		x		s				
346125	x		x						
413265	x	x					x		B
125346	s								
342516		3B							
524361		A							
536421	x				s				C
345261	x	x				x			
432561		2C							
(135462)	x						s		
(413265)		3D							D
321465		3C							
231456	x								

8 John Pladdys

54 single variation of Thurstans'

231456	2	S	H	L	Q	14	
(523416)	x		x		s		A
(152436)	x		x		s		
(315426)	x		x		s		
346125	x		x				
413265	x	x		x			B
143256		x					
426315	s						
234165	x	x		x			
315426	s						C
421536		3B					
256143	s						
512463	x	x		x			
215364		2C					D
125346		x					
352164		A					
(451362)	x				s		
(253461)	x				s		D
(154263)	x				s		
514236	x						
231456		3D					

9 Henry W Haley

231456	2	S	H	L	Q	14	
536421	x						U
345261	x	x		x			
125346		x x					
342516		3U					
356412	x		x				O
543162	x	x		x			
213546	x	x					
152436		4U					
146532	x		x				O
451362	x	x		x			
(524361)	x	x			s		
134526	x	x					
236514	x						O
352164	x	x		x			
532146	x						
315426		4U					
412356		O					O
351246		3U					
456231	x						
524361	x	x		x			
231456	s						

10 Thomas Brook

231456	2 S H L 14	
356412	x x	W
512463	x x	
342516	x x	
514236	2W	
426315	x x x	E
215364	x x	
435216	x x	
541326	4W	
125346	E	
246351	x x	
451362	x x	
(524361)	x x s	
134526	x x	
523416	2W	
216435	x x	O
135462	x x	
315426	x	
532146	4W	
245136	O	
412356	W	
156324	x x	
524361	x x	
231456	s	

11 Frederick H Dexter

Variation of Brook's

231456	2 S H L 9 11 14	
(215364)	x x s	S
(142365)	x x	S
(451362)	x x	S
(524361)	x x	S
356412	x x	s
512463	x x	
342516	x x	
416523	x x	W
123564	x x	
453126	x x	
125346	2W	
246351	x x	A
451362	x x	
532146	s	
254316	4W	
435216	A	
541326	4W	
134526	A	
412356	4W	
231456	A	

12 David J Sheppard

Variation of Brook's

231456	2 S H L 9 14	
346125	s	A
(362451)	x x s s	
(325614)	x x s s	
243615	x x s	
514236	4s	
126453	s	E
(165234)	x x s s	
(153642)	x x s s	
534612	x x x s	
213546	4s	
435216	A	
326541	s	
(364215)	x x s s	
462135	x x s	
254316	3s	
421536	3A	
256143	s	O
(264531)	x x s s	
(312645)	x s s	
153642	x x s	
245136	4s	
134526	4A	
315426	O	
146532	s	
(163425)	x x s s	
(132654)	x x s s	
341652	x x s	
423651	x x s	
152436	4s	
541326	2A	
342516	E	
231456	3A	

This peal contains 198 singles – the maximum possible in a peal on the twin-bob plan.

13 Philip A B Saddleton

231456	S	H	L	9	11	Q
254316	x				s	
436152	x	x	x			
352164	x	x				
412356		x	x			
156324	x	x				
524361	x	x				
134526		x	x			
245136				3W		
532146				E		
421536				3W		
236514	x	x				
314562	x	x				
536421	x	x			s	
345261	x	x				x
125346		x	x			
426315	x					
234165	x	x				x
514236		x	x			
453126				U		
256143	x					
512463	x	x				x
152436		x				
541326				4U		
342516				O		
231456				U		

14 Philip A B Saddleton

231456	2	S	H	L	Q	14
346125	s					
425163		x	x			
315426			x	x		
546213		x	x	x		
413265		x	x			
143256			x			
456231		x	x			
531264		x	x			
421536		x	x			
254316				V		
532146				W		
216435		x	x	x		
135462		x	x			
245136			x	x		
412356				W		
134526				V		
351246				W		
523416				V		
(231456)		x	x	x		s
536421		x				
345261		x	x		x	
435216			x			
136245		x				
321465		x	x		x	
541326		x	x			
152436				U		
453126				O		
416523		x		x		
154263		x	x		x	
514236			x			
125346				T		
324156				O		
213546				T		
256143		x		x		
512463		x	x		x	
342516			x	x		
231456				U		

Other Twin-Bob Peals

The 20-part peals are a special case of twin-bob compositions. If bobs are called only in pairs at the four positions S, H, L and Q, and singles only at positions that affect the observation bell, only 120 of the 720 possible courses can be reached: moreover the 60 out-of-course courses are precisely the 60 in-course courses rung backwards. These 60 courses are not mutually true, but repetition between them occurs only in sixes between the calling positions for a pair of bobs:

- Six **3** of course 231456 has the same rows as six **7** of course 653214
- Six **5** of course 231456 has the same rows as six **12** of course 426315
- Six **7** of course 231456 has the same rows as six **3** of course 415632
- Six **12** of course 231456 has the same rows as six **5** of course 345261

What is more, if a pair of bobs is called at one of these positions the new six introduced between the pair does not appear in any of the plain courses. The effect of all of this is that a set of 60 mutually true courses is obtained if bobs are called at either S or L and either H or Q in every course. William Hudson was the first to make use of this discovery, and his peal of 1832 has calls at S and H in each course, with the blocks joined by special calls. In a sense all twin-bob peals that have followed are variations of this peal. [21] and [28] are perhaps the closest to the original,

although in the former the arrangement here has the in-course courses rung as H, L. In the other peals in this section pairs of bobs are omitted, and extra pairs inserted to preserve truth, similarly to the extras and omits used in the 20-part peals. Because such a substitution always changes the number of bobs-only blocks by an even number, singles are always necessary.

The 60 courses can be arranged into equal parts in several different ways. The remainder of the twin-bob peals have been organized according to the number of parts in the composition.

[15-18] are exact five-parts. [17] is the "Sleeping Beauty", apparently composed before the 4-part but not rung until 1890 when the figures were rediscovered. [19] can also be arranged as an exact five-part with two singles in each part. Similarly [17,18] can be arranged with only two singles. [20] consists of four separate five-part blocks: they are joined in pairs with extras and omits, and the two blocks then joined with singles. [21-25] are ten-parts with different ways of joining the two five-part blocks: [21,22] use an extra pair of singles (resulting in five parts being rung backwards in [21]); [23,24] omit a pair of singles; [25] uses extras and omits to give two ten-part blocks that are then joined with a pair of singles.

[26-28] are exact three-parts. In a similar way to the five-parts, [26,27] can be rearranged with only two singles joining two three-part blocks. [28] is in fact a twelve-part with additional singles. [29-32] are six-parts, with extras and omits used in [29,30] and the two halves joined by omitting a pair of singles in [31,32].

[33-38] all have the feature of a pair of singles just one course apart, thus ensuring that the maximum amount of the composition is rung in course. In each case the construction is by making a minimum number of alterations from a regular plan. [33] is basically a ten-part. [34] is one Q-set of bobs removed from Thurstans' four-part (Block A is the Thurstans block rotated and reversed). [35-37] are all five-parts, and [38] a six-part.

15 Joseph J Parker

No 12

231456	2	S	H	9	Q	14	
536421	x						A
345261	x	x		x			
423651	x	x		x			
521643	x						
461253	x				x		
215364	2s						B
635124	x			x			
(562314)	x		s	x		s	
342516			A				
231456			4B				

16 John Carter

231456	S	H	L	9	11	
356412	x	x				A
654132	x	x		s		
214653	x	x				
364215	x	x				
524361	x	x				
134526	x	x				A
512463	x	x		s		
163425	x	x				
625431	x	x				
415632	x	x		2s		
516342	x	x		s		A
125346	x	x	s			
231456			4A			

17 Thomas Thurstans

The "Sleeping Beauty"

231456	2	S	H	L	Q	14
625431		x	x	x		
145623		x	x			
265413		x				
345261		x	x			
641235		x	x			
521643		x	x			
461253		x				
321465		x	x			
541326		x	x			
246351			x	x		
431625	s					
(136245)		x	x			s
514236		x	x	x		
231456		4A				

18 Arthur P Heywood

231456	2	S	H	L	Q	14
346125	s					
(453126)		x	x			s
213546		x		x		
416523		x				
154263		x	x	x		
521643		x	x	x		
265413		x	x	x		
163425		x				
625431		x	x			
345261		x		x		
641235		x				
426315		x	x	x		
125346		x				
231456		4A				

19 James W Washbrook

231456	2	S	H	L	Q	14
346125	s					
516342		x	x			
236514		x	x			
456231		x	x			
126453		x	x			
(231456)		x	x			s
356412		x	x			
512463		x	x			
613452		x				
152436		x	x			
536421		x	x			
321465		x	x			
243615		x	x	x		
462135		x	x	x		
365142		x				
642153		x	x			
453126		x	x			
231456		4A				

20 Gabriel Lindoff

No 1

231456	S	H	L	9	11	Q
625431	x	x				x
145623	x	x				
243615		x				x
214653		x	s			
153642	x	x				
542631	x	x				
431625	x	x				
325614	x	x				
124635	x					
513624			B			
163425	x				s	
265413		x				x
345261		x	x			
125346		x	x			
132654			A			
562314		x				
514236			C			
342516			2D			
354621			A			
264531		x				
361524		x			x	
432561		x	x			x
152436		x	x			
613452		x	x			x
543162		x				
213546		x	x			
541326			3E			
652341		x	x			x
451362		x				x
231456		x	x			

21 John Carter

231456	2	S	H	L	14
346125	s				
425163		x	x		
263154		x	x		
654132		x	x		
532146		x	x		
316254	s				
(143256)		x	x		s
456231		x	x		
236514			3A		
314562		x	x		
162543		x	x		
643521		x	x		
421536		x	x		
256143	s				
(532146)		x	x		s
(231456)		x	x		s
641235		x	x		
521643		x	x		
(235641)		x	x		s
341652		x	x		
462135	s				
512463		x	x		
342516		x	x		
231456		4B			

22 John Carter

No 1

231456	2	S	H	9	11	14
346125	s					
425163		x	x			
213546	s					
146532		x	x			
(163425)		x	x	s		s
364215		x	x	s		
254316		x	x		2s	
516342		x	x			
142365		x	x			
435216	s					
541326					3B	
532146					A	
(231456)		x	x			s
231456					5B	

23 Philip A B Saddleton

231456	2	S	H	L	Q	14
346125	s					
216435				x		
(231456)			x			s
356412		x	x			
512463		x	x			
163425		x	x			
641235		x	x		x	
435216		x	x			
326541	s					
(342516)				x		s
541326				A		
324156				3B		
125346				A		
231456				4B		

24 Graham N Scott

No 2

231456	S	H	L	9	11	Q
253461				x	s	
241563	x		x			
536421	x	x			s	x
156324		x		s		x
532146		x				x
543162		x	s			
435216	x		x		2s	x
413265		x	s			
256143	x		x		s	x
152436				A		
213546				3B		
416523		x				x
514236				A		
231456				4B		

This peal contains no more than three consecutive calls.

25 John Carter

231456	2	S	H	L	Q	14
346125	s					
216435				x		
546213			x	x		
326541			x	x		
156324			x	x		
436152			x	x		
126453			A			
(231456)			x	x		s
536421		x				
345261		x	x		x	
461253		x	x			
624513		x	x		x	
213546		x	x			
416523		x				
154263		x	x		x	
563241		x	x			
641235		x	x			
435216		x	x			
541326				3C		
514236				B		
231456				4C		

26 H Earle Bulwer

No 4

231456	2	S	H	L	Q	14
541326		x			x	
246351		x				
536421		x			x	
345261		x	x		x	
641235		x				
435216		x	x			
316254		x	x			
324156		x		x		
213546		x	x		x	
152436		x	x		x	
512463			x			
642153		x			x	
543162		x				
613452		x			x	
146532		x	x		x	
356412		x			x	
342516					x	
416523		x	x			
153642	s					
(534612)		x	x	x		s
312645		x	x			
231456				2A		

27 Joseph J Parker

231456	2	S	H	L	Q	14
342516	x	x				x
146532	x					
356412	x					x
152436	x					
541326	x	x				x
435216	x	x				x
316254	x	x				
154263	x	x				
624513	x					x
(615243)	x					s
413265			x	x		
523416		x	x			
643521		x	x			
162543		x	x	x		
314562		x	x	x		
654132		x				
352164			x	x		
412356		x	x			
516342			x	x		
436152			x			
312645	s					
231456					2A	

28 Philip A B Saddleton

231456	2	S	H	L	9	14
162543	3s					
352164		x	x			
543162		x	x	s		
462135		x	x			
635124		x	x			
(531264)		x	x			s
342516				A		
416523		x	x			
153642	s					
526134				A		
234165		x	x			
652341				B		
231456				2C		

29 John O Lancashire

231456	2	S	H	L	Q	14
536421	x					
341652	s					
561432			x			
241563		x	x			
643521			x	x		
162543		x	x	x		
452613			x			
153642		x	x			
542631			A			
(536421)		x	x	s		
246351	x		x			
432561	x	x	x			
361524	x	x				
354621	x		x			
563241	x	x	x			
653214		x				
123564	x		x			
624513	x					
154263	x		x			
312645			B			
415632	x					
164352	x	x	x			
213546			B			
132654			2C			
231456			D			

30 Gabriel Lindoff

No 8

231456	2	S	H	L	Q	14
346125	s					
516342			x	x		
142365		x	x			
532146		x	x			
612534		x	x			
452613		x	x			
531264			A			
421536		x	x			
236514		x	x			
456231		x	x			
126453		x	x			
546213			x			
352164			2A			
412356		x	x			
156324		x	x			
436152		x	x			
216435		x	x			
(231456)			x			s
541326		x		x		
426315		x	x			
215364		x	x			
164352		x	x			
631542		x	x	x		
451362		x		x		
562314		x	x			
614325		x	x			
125346		x	x			
246351		x	x			
152436				C		
652341				B		
231456				2C		

31 Gabriel Lindoff

No 13

231456	S	H	L	9	11	Q
356412	x	x				
143256	x	x				s
623145	x	x				
513624	x	x				
463512	x	x				
241563	x	x				x
432561	x	x	s			
361524	x	x				
624513	x	x				
123564	x					
312645			B			
145623	x	x				
261345	x	x				s
362451			A			
142365	x	x				
341652			A			
423651	x	x	s			
251634	x	x				
534612	x	x				
132654	x					
321465			2B			
265413	x	x				
613452	x	x				
152436	x	x				
536421	x	x				
231456	x					

32 Philip A B Saddleton

231456	2	S	H	L	Q	14	
146532		x	x	x			A
(463512)		x	x	x		s	
452613					x		
463512					x		B
652341	s						
562314		x					
432561		x	x				
361524		x	x				
154263		x	x	x			C
514236		x					
624513		x	x				
213546		x	x				
542631						A	
461253	s						C
132654						B	
321465						C	
145623		x	x	x			
563241		x	x	x			
312645						B	
231456						2C	

Alternatively, call bobs at H instead of Q throughout.

33 Charles D P Davies

Variation of Lates'

231456	S	H	L	9	11	Q	
246351	x		x				A
432561	x	x				x	
354621	x	x				x	
251634	x						
534612	x	x					
312645	x	x					
145623	x	x					B
423651	x	x					
132654				A			
361524	x	x				x	
631542		x					
342516	x	x					C
356412	x		x				
543162	x	x				x	
462135	x	x					
642153		x					
453126	x	x					C
416523	x		x				
154263	x	x				x	
563241	x	x					
624513		x				x	
213546	x	x					B
152436				B			
146532	x		x				x
451362	x	x				x	
652341	x						B
541326	x	x					
435216				B			s
143256	x		x	s			
426315						s	x
234165	x	x				x	
365142	x	x					C
635124		x					
324156	x	x					2B
514236						C	
231456						2B	

34 Charles D P Davies

Variation of Thurstans'

231456	S	H	L	9	11	Q	
246351	x		x				A
652341	x	x	x			x	
132654		x	x				
164352	x		x				A
635124		x				x	
415632		x	x				
243615				A			E
265413	x		x				
642153	x	x				x	
312645		x	x				
145623						4A	
521643						E	A
354621						A	
361524	x		x				x
432561		x	x			x	
342516		x					s
542631	x		x			s	
356412					s		x
543162	x	x				x	
453126		x					T
416523	x		x				
154263	x	x				x	
514236		x					x
123564		x				x	
213546		x					4T
324156						4T	
526134	x						x
215364	x	x				x	
125346		x					T
231456						T	

35 H Earle Bulwer

No 7

231456	2	S	H	L	Q	14
346125	s					
(231456)	x	x	x	x	s	
246351	x	x				
432561	x	x	x			
652341	x			x		
534612		x		x		
132654	x					
164352	x	x				
562314			x	x		
631542		x		x		
342516	x	x				
265413			A			
453126			B			
361524			A			
653214	x	x		x		
514236	x	x				
462135			A			
125346			B			
426315	x					
234165	x	x		x		
324156	x					
316254	x	x				
123564	x	x		x		
213546	x					
435216		3T				
136245	x					
321465	x	x		x		
641235	x			x		
423651		x		x		
521643	x					
563241	x		x			
231456			B			

36 James Higgins

231456	2	S	H	L	Q	14
356412		x	x			
541326			x		x	
451362			x			
432561		x		x		
354621		x	x	x		
251634		x				
534612		x	x			
312645		x	x			
145623		x	x			
423651		x	x			
563241		x			x	
461253		x				
624513		x	x		x	
256143		x	x		x	
453126		x				
521643			A			
265413		x	x		x	
163425		x				
625431		x	x			
641235		x		x		
426315		x	x		x	
125346		x				
243615			A			
462135		x	x		x	
365142		x				
642153		x	x			
613452		x		x		
146532		x	x		x	
(135462)		x				s
135462		x		x	x	
342516	s					
231456			2B			

37 Philip A B Saddleton

The "Climsland Peal"

231456	2	S	H	L	Q	14
356412	x	x				
512463	x	x				
152436		x				
536421	x	x				
321465	x	x				
145623	x	x	x			
563241	x	x	x			
514236		A				
125346		2C				
534612		B				
415632	x	x	x	x		
132654	x	x				
354621	x	x				
521643	x	x				
243615	x	x				
462135	x	x		x		
453126		A				
312645		B				
265413	x	x	x			
163425	x					
625431	x	x				
(524361)	x	x			s	
524361						
231456	s					

An alternative arrangement has calls at Q in every part, and those at L in one part only, giving a basic part called the same as that in Washbrook's [19]. Its construction is left as an exercise for the reader.

38 Philip A B Saddleton

231456	2	S	H	L	Q	14
346125	s					
(231456)						s
146532	x	x	x			
256143		x	x			
316254		x	x			
136245		x				
526134	x	x				
453126		x	x	x		
613452		x	x			
642153	x		x			
415632		x		x		
132654	x	x				
264531	x	x	x			
361524	x					
154263	x	x	x			
514236		x				
653214		x	x	x		
423651		x	x			
563241			x			
624513		x		x		
213546	x	x				
356412	x	x	x			
342516	x		x			
152436			x			
246351	x	x	x			
426315		x				
321465			C			
635124			D			
123564			B			
614325			A			
312645			C			
435216			A			
231456			C			

Other 60-Course Plans

A series of articles was published in the *Ringling World* in 1945, under the title 'Mysteries Unveiled' (later published as a separate pamphlet), in which Joseph W Parker coined the term *Regular Course-end Plan* for a set of sixty course-ends where (in Parker's words) *taking any fifty-nine of them, the relationship of the one left out to the fifty-nine must be the same whichever one of the sixty it may be*. In mathematical terms, the course-ends form a group, as we have already seen for the twin-bob peals. Parker's pamphlet is essential reading for any serious student of Stedman Triples composition.

[39-57] are an extension of the ideas of twin-bob peals to other callings that allow a set of sixty mutually exclusive courses to be found. In [39-45] extras and omits are used, although more complex linkages are also used in [42] and [43]. An explanation of the construction of [42] was published by the composer in the *Ringling World* (1 April 1921). The block used for [46], although bobs only, does not allow extras and omits, hence the courses must be joined by singles. In [47] pairs of singles can be added introducing a false six that is removed by inserting another pair in a different course. [48-50] all keep the 7th unaffected throughout and are constructed from a number of similar courses. In [51-57] mixed courses of bobs and singles are used.

39 John Carter
"Odd Bob"

231456	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6
431562	-	-	-	-	-	-	-	s	-	-	-	-	-	-	-	-
645231	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
362145	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
614325	-	-	-	-	s	-	-	-	-	-	-	-	-	-	-	-
543162	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
613452	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
534612	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
246351	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
163425	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
234165	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
514236	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
642153	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
312645	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
426315	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
563241	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
132654	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
562314	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
123564	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
635124	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
415632	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
256143	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
361524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
451362	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
213546	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
435216	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
652341	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
423651	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
136245	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
526134	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
416523	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
265413	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
354621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
146532	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
356412	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
264531	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
345261	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
152436	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
324156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
641235	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
521643	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
316254	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
462135	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
512463	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
624513	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
154263	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
342516	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
625431	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
145623	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
365142	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
251634	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
461253	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
321465	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
541326	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
631542	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
215364	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
653214	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
432561	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
125346	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
453126	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
231456	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

40 Joseph W Parker
No 97

231456	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6
126345	-	-	-	-	-	-	-	-	s	-	-	-	-	-	-	-
631542	-	-	-	-	-	-	-	s	-	-	-	-	-	-	-	-
536421	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
435216	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
234165	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
132654	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
613452	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
416523	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
541326	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
345261	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
243615	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
461253	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
264531	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
562314	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
365142	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
163425	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
642153	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
146532	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
514236	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
123564	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
231456	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

A

41 Joseph W Parker
No 76

231456	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6
126345	-	-	-	-	-	-	-	-	s	-	-	-	-	-	-	-
325461	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
421653	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
263415	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
465132	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
162354	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
634125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
135246	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
236451	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
341265	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
245613	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
463251	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
261534	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
654213	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
253146	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
156432	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
524136	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
423651	-	-	-	-	-	-	s	-	-	-	-	-	-	-	-	-
624513	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
526134	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
152436	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
415632	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
614325	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
316254	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
213546	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
512463	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
541326	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
354621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
653214	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
256143	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
231456	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

A

B

42 E Bankes James

231456	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6
124563	-	-	-	-	-	-	-	-	-	s	-	-	-	-	-	-
235164	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
341265	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
452361	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
513462	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
641235	-	-	-	-	-	-	-	s	-	-	-	-	-	-	-	-
312645	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
426315	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
536421	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
146532	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
256143	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
316254	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
462135	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
321465	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
514236	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
624513	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
145623	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
265413	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
354621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
264531	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
345261	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
152436	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
642153	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
521643	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
461253	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
512463	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
324156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
435216	-	-	-	-	-	-	-	-	-	3A	-	-	-	-	-	-
625431	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
154263	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
342516	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
231456	-	-	-	-	-	-	-	-	-	3A	-	-	-	-	-	-

A

43 Albert J Pitman

No 10

231456	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6
135246	-	-	-	-	-	-	-	-	s	-	-	-	-	-	-	-
236451	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
431562	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
532614	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
634125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
142536	-	-	-	-	-	s	-	s	-	-	-	-	-	-	-	-
531426	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
346512	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
542163	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
143625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
645231	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
362145	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
264531	-	-	-	-	-	s	-	-	-	-	-	-	-	-	-	-
562314	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
365142	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
251634	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
625431	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
426315	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
324156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
123564	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
231456	-	-	-	-	-	-	-	-	-	2A	-	-	-	-	-	-

A

44 Brian D Price

2314567	1	2	3	4	5	6	7	8	9	0	1	2	3	4
5612347	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6514327	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3642517	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5321647	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6425317	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3126457	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4256173	-	-	-	-	s	-	-	-	-	-	-	-	-	-
5364217	-	-	-	-	s	-	-	-	-	-	-	-	-	-
2541367	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3216547	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2463517	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5231467	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2314567	-	-	-	-	-	-	-	-	-	-	-	-	-	-

4A

A

45 Noel J Diserens

No 2a

231456	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6
416523	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
265413	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
354621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
146532	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
365142	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
251634	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
614325	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
613452	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
234165	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
456123	-	-	-	-	-	-	-	s	-	-	-	-	-	-	-	-
531426	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
342516	-	-	-	-	-	s	-	-	-	-	-	-	-	-	-	-
231456	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

4A

A

46 Joseph W Parker

No 58

231456	1	2	3	4	5	6	7	8	9	0	1	2	3	4
416532	s	-	-	-	-	-	-	-	-	-	-	-	-	-
354216	s	-	-	-	-	-	-	-	-	-	-	-	-	-
246153	s	-	-	-	-	-	-	-	-	-	-	-	-	-
512346	s	-	-	-	-	-	-	-	-	-	-	-	-	-
326415	s	-	-	-	-	-	-	-	-	-	-	-	-	-
461523	-	-	-	-	-	-	-	-	-	-	-	-	-	-
512364	-	-	-	-	-	-	-	-	-	-	-	-	-	-
635412	s	-	-	-	-	-	-	-	-	-	-	-	-	-
452136	s	-	-	-	-	-	-	-	-	-	-	-	-	-
123654	-	-	-	-	-	-	-	-	-	-	-	-	-	-
635421	-	-	-	-	-	-	-	-	-	-	-	-	-	-
312546	-	-	-	-	-	-	-	A	-	-	-	-	-	-
524613	-	-	-	-	-	-	-	-	-	-	-	-	-	-
231465	-	-	-	-	-	-	-	A	-	-	-	-	-	-
642531	s	-	-	-	-	-	-	-	-	-	-	-	-	-
156342	-	-	-	-	-	-	-	-	-	-	-	-	-	-
362451	s	-	-	-	-	-	-	-	-	-	-	-	-	-
543162	s	-	-	-	-	-	-	-	-	-	-	-	-	-
215643	-	-	-	-	-	-	-	-	-	-	-	-	-	-
362415	-	-	-	-	-	-	-	-	-	-	-	-	-	-
425163	s	-	-	-	-	-	-	-	-	-	-	-	-	-
614325	s	-	-	-	-	-	-	-	-	-	-	-	-	-
345216	s	-	-	-	-	-	-	-	-	-	-	-	-	-
123645	s	-	-	-	-	-	-	-	-	-	-	-	-	-
561423	-	-	-	-	-	-	-	-	-	-	-	-	-	-
312564	-	-	-	-	-	-	-	B	-	-	-	-	-	-
453612	-	-	-	-	-	-	-	-	-	-	-	-	-	-
231456	-	-	-	-	-	-	-	B	-	-	-	-	-	-

A

B

47 Albert J Pitman

No 14

231456	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6
135246	-	-	s	s	-	-	s	-	-	-	s	s				
241356	-	-	-	-	s	s	-	-	-	-	s	s				
352416	-	-	-	-	s	s	-	-	-	-	s	s				
413526	-	-	-	-	s	s	-	-	-	-	s	s				
524136	-	-	-	-	s	s	-	-	-	-	s	s				
253146	-	-	-	-	-	-	-	-	-	-	s	s				
312645	-	-	-	-	-	s	-	-	-	-	-	-				
631542	-	-	-	-	-	-	-	-	-	-	-	-				
536421	-	-	-	-	-	-	-	-	-	-	-	-				
461253	-	-	-	-	-	-	s	s	-	-	-	-				
213546	-	-	-	-	-	-	s	s	-	-	-	-				
521643	-	-	s	s	-	-	-	-	-	-	-	-				
652341	-	-	-	-	-	-	-	-	-	-	-	-				
356412	-	-	-	-	-	-	-	-	-	-	-	-				
462135	-	-	-	-	-	-	s	s	-	-	-	-				
125346	-	-	-	-	-	-	s	s	-	-	-	-				
142536	-	-	s	s	-	-	s	-	-	-	-	s	s			
514236	-	-	-	-	-	-	-	-	-	-	-	-	A			
231456	-	-	-	-	-	-	-	-	-	-	-	-	3B			

A
B

49 Brian D Price

Reversed

231456	1	2	3	4	5	6	7	8	9	0	1	2	3	4
456231	s	-	-	-	s	-	-	-	s					
326541	s	-	-	-	-	-	-	-	-	s				
536421	s	-	-	-	-	-	-	-	-	s				
431265	s	-	-	-	-	-	-	-	-	s				
264315	s	-	-	-	-	-	-	-	-	s	-	-		
365142	s	-	-	-	-	-	-	-	-	s				
162453	s	-	-	-	-	-	-	-	-	s				
463521	s	-	-	-	-	-	-	-	-	s				
561234	s	-	-	-	-	-	-	-	-	s				
235614	s	-	-	-	-	-	-	-	-	s	-	-		
612354	s	-	-	-	-	-	-	-	-	s	-	-		
314526	s	-	-	-	-	-	-	-	-	s				
216534	s	-	-	-	-	-	-	-	-	s				
514362	s	-	-	-	-	-	-	-	-	s				
634152	s	-	-	-	-	-	-	-	-	s	-	-		
132546	s	-	-	-	-	-	-	-	-	s				
436512	s	-	-	-	-	-	-	-	-	s				
532164	s	-	-	-	-	-	-	-	-	s				
134625	s	-	-	-	-	-	-	-	-	s				
621345	s	-	-	-	-	-	-	-	-	s	-	-		
325416	s	-	-	-	-	-	-	-	-	s				
541326	-	-	-	-	-	-	-	2B						
246351	s	-	-	-	-	-	-	-	s					
145236	-	-	-	-	-	-	-	-	-	A				
231456	-	-	-	-	-	-	-	-	-	3B				

A
B

Start with rounds as the last row of a six for the Hudson course ends.

48 Albert J Pitman

No 13

231456	1	2	3	4	5	6	7	8	9	0	1	2	3	4
546132	s	-	-	s	-	-	-	-	-	s				
613542	s	-	-	-	-	-	-	-	-	s				
354612	s	-	-	-	-	-	-	-	-	s				
461352	s	-	-	-	-	-	-	-	-	s				
142365	s	-	-	-	-	-	-	-	-	s	-	-		
346215	s	-	-	s	-	-	-	-	-	s				
245163	s	-	-	-	-	-	-	-	-	s				
143652	s	-	-	-	-	-	-	-	-	s				
365142	s	-	-	-	-	-	-	-	-	s				
162453	s	-	-	-	-	-	-	-	-	s				
543261	s	-	-	s	-	-	-	-	-	s				
432651	-	-	-	-	-	-	-	A						
531642	s	-	-	-	-	-	-	-	-	s	-	-		
164532	s	-	-	-	-	-	-	-	-	s				
135462	-	-	-	-	-	-	-	-	-	C				
436512	s	-	-	s	-	-	-	-	-	s				
165324	-	-	-	-	-	-	-	B						
234561	s	-	-	s	-	-	-	-	-	s				
345621	-	-	-	-	-	-	-	-	-	A				
265431	s	-	-	-	-	-	-	-	-	s				
463521	s	-	-	s	-	-	-	-	-	s				
235614	-	-	-	-	-	-	-	-	-	B				
634152	s	-	-	-	-	-	-	-	-	s				
231456	-	-	-	-	-	-	-	-	-	D				

A
B
C
D

Start with rounds as the last row of a six for the Hudson course ends.

50 Noel J Diserens

No 1

231456	1	2	3	4	5	6	7	8	9	0	1	2	3	4
416325	s	-	-	-	-	-	-	s	-	s				
645312	s	-	-	-	-	-	-	-	-	s	-	-		
342156	s	-	-	-	-	-	-	-	-	s				
546132	s	-	-	-	-	-	-	-	-	s				
652143	s	-	-	-	-	-	-	-	-	s	-	-		
153426	s	-	-	-	-	-	-	-	-	s				
215346	-	-	-	-	-	-	-	3A						
316452	s	-	-	-	s	s	-	-	-	s				
632415	s	-	-	-	-	-	-	-	-	s	-	-		
435126	s	-	-	-	-	-	-	-	-	s				
512436	-	-	-	-	-	-	-	4A						
436512	s	-	-	-	-	-	-	s	-	s				
651432	s	-	-	-	-	-	-	-	-	s				
413256	s	-	-	-	-	-	-	-	-	s				
126435	s	-	-	-	-	-	-	-	-	s				
643125	s	-	-	-	-	-	-	-	-	s				
132546	s	-	-	-	-	-	-	-	-	s				
541326	-	-	-	-	-	-	-	3B						
346215	s	-	-	-	s	s	-	-	-	s				
621345	s	-	-	-	-	-	-	-	-	s				
314526	s	-	-	-	-	-	-	-	-	s				
231456	-	-	-	-	-	-	-	4B						

A
B

Start with rounds as the last row of a six for the Hudson course ends.

51 Joseph W Parker

2314567	1	2	3	4	5	6	7	8	9	0	1	2	3	4
5467132			-	-				-	s		-	s		
4156327	-	-				-	s						s	
6412357			-	-				-	s					s
2645317			-	-				-	s					s
5431627		s		s										
6127345			-	-				-	s		-	s		
1362457	-	-				-	s						s	
2135467			-	-				-	s					s
5216437			-	-				-	s					s
3241567									A					
1524367									3B					
4236517		s		s										
1253467									A					
2314567									4B					

A
B

54 James Higgins

231456	1	2	3	4	5	6	7	8	9	0	1	2	3	4
142536	s	s	s	-				s	s					
651342	s	s	s	s				s	s					
364152	s				s	s	s	s		s				
312465	s				s			s		s				
615234	s				-	s				s				
146532	s	s						s		s				
531624	s	s				s	s	s		s				
345126	s	s						s		s				
463521	s	s						s		s				
614325	s	s						s		s				
543162									C					
435126									A					
416532	s					s		s		s				
254316	s	s	s	s				s		s				
321456	s					s	s	s		s				
346125	s					s		s		s				
245631	s					-	s			s				
241365									B					
634152									2C					
236541	s	s	s	s	s					s				
231456									B					

A
C
B

52 John O Lancashire

231456	1	2	3	4	5	6	7	8	9	0	1	2	3	4
534621	s	s			s				-	-				
561432	s				s			s	s					-
652431	s				s			s	s					
354621	s				s			s		-				
513426	s	s			s					s				-
214653	s	s			s				-	-				
263415	s				s			s	s					-
245361	s				s			s	s					-
231546	s				s			s	s					-
641253	-													
542613	s				s			s		-				
435216	s	s			s					s				-
321546										3C				
412356										A				
542163	-	s	s											
513246	s				s			s	s					-
412536										B				
231456										4C				

A
C
B

55 Edward W Martin

No 21

2314567	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6
5317264	-	s	s			s				s						
5714326	-	s	s			s			s				s			
7216453	-	s	s	s		s			s						s	
7613245	-	s	s			s			s				s			
6415372	-	s	s	s		s			s						s	
4712563	-	s	s	s		s			s						s	
4213756	-	s				s			s				s			
4316275	-	s				s			s				s			
4615327	-	s				s			s				s			
3617425	-	s	s			s				s						
6215734	-	s	s	s		s			s						s	
6514273	-	s				s			s				s			
6413527	-	s				s			s				s			
6317452	-	s				s			s				s			
6712345	-	s	s			s			s				s			
3715642	-	s	s			s			s							
3512764	-	s				s			s				s			
5216374										B						
4517632										A						
6512437	-	s	s			s			s							
6217543	-	s				s			s				s			
6713254	-	s				s			s				s			
2714653	-	s	s			s				s						
7415263										B						
2413765	-	s	s			s				s						
2315476	-	s				s				s						
3517246										B						
2314567										C						

A
B
C

53 Louis Head

2314567	1	2	3	4	5	6	7	8	9	0	1	2	3	4
3461257		s												
2451367														
6231457		s			-			-	s					
2164357		-	-	s	s									
1456237		s												
1432567		-	-							s	-			
6152437		s				-		-	s					
1264537		-	-	s	s									
4215367										A				
3154267										3B				
6324157		s						-	s					
3467251		-	-	s	s									s
6254317	s				-	s					-	-		
2463517		-	-	s	s									
3425167										A				
2314567										4B				

A
B

In this peal all the -67's occur at backstroke.

56 Edward W Martin

No 22

2314567	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2
6512437	-	-	-	-	-																	
6217543	-	-	-	s			s		-	-												
7315624	-	-	-	s			s		s	-	s		-									
7514362	-	-	-	s			s		-	-												
4213756	-	-	-	s			s		s	-	s		-									
4316275	-	-	-	s			s		-	-												
5317264	-	-	-	s			s		s	-	s			s						s		
6215734	-	-	-	-																		
6514273	-	-	-	s			s		-	-												
2516374	-	-	-	s			s	s	-													
5417623	-	-	-	-	s		s		s													
5713462	-	-	-	s			s		-	-												
6415372	-	-	-	-																		
2417356	-	-	-	s			s		s	-	s		s		s					s		
3614725	-	-	-	s			s		-	s	s		s		s				-	-		
4615372	-	-	-	-	s		s		s		-	-										
2314576	-	-	-	-																		
6413572											A											
3517246	-	-	-	s	s	-	s		s		s		s									
2516347	-	s	s		s		s		s													
5216374											B											
3214576	-	s	s		s		s		s													
2314567											B											

A B

57 Edward W Martin

No 48

2314567	1	2	3	4	5	6	7	8	9	0	1	2	3	4
4156327	s		s											
4531267	s		-	-					-	s		-		
1326547	s		s											
1257463	s		-	-					-	s		-	s	
6254317	-	-			-	s		-						
6532147	s		-	-					-	s		-		A
6315427	s		-	-					-	s		-		
6143257	s		-	-					-	s		-		
6421537	s		-	-					-	s		-		
1253467	s		s											
1542637	s		-	-					-	s		-		
2463517	s		s											
3651427	s		s											
3546217	s		-	-					-	s		-		
3425167	s		-	-					-	s		-		
3217654	s		-	-					-	s		-	s	
5216437	-	-			-	s		-						
5142367	s		-	-					-	s		-		
5431627	s		-	-					-	s		-		
5367214	s		-	-					-	s		-	s	B
1362457	-	-			-	s		-						
1643527	s		-	-					-	s		-		
1456237	s		-	-					-	s		-		
1524367	s		-	-					-	s		-		
1235647	s		-	-					-	s		-		
3162547							A							
3657421	s		-	-					-	s		-	s	
2654137	-	-			-	s		-						C
3126457							B							
2314567							C							

Other Regular Plans

Peals [58-74] use other groups. [58] has the same 20 part-ends as Thurstans', and [59] uses the same group but with 1-2 fixed: these are the only such bobs-only blocks apart from those with twin-bobs.

[60] and [61] use a group of order ten, which has significant implications: [60] splits the extent into five two-part blocks (*i.e.* an odd number), and if a suitable Q-set were available could be joined to give a peal with bobs only. However, none exists, and the blocks are thus joined using singles. This block was discovered independently by Nigel Newton. [61] again gives five two-part blocks, but missing the twenty sixes with 7-6 behind. These occur in two B-blocks (*i.e.* five-part blocks), still partitioning the extent into an odd number. Fortuitously all three members of the Q-sets required to join the blocks together are available, and a bobs-only peal results. A fuller explanation of the construction was published in the *Ringling World* (11 August 1995). [62] is an alternative arrangement, with one additional Q-set bobbed.

[63] uses a group of order 12. [64-66] are based on a group of order 24, organized into palindromic blocks to give a 12-part composition. [67-72] use a group of order 21, with rotations of Rounds, Queen's and Tittums as part-ends (there are no bobs-only blocks using this group). [73] is also a 21-part, and is in fact based on the group of order 168 (as is Scientific Triples). [74] also uses this group, and such constructions are discussed in *Mysteries Unveiled*.

It is no accident that with the exception of the last two the peals in this section have been produced only in the last few years. The length of most of the blocks used means that their discovery is unlikely without the aid of a computer.

58 Philip A B Saddleton

2314567	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6
3461257		s														
4256317	-					-	-				-	-	-	-		
4123567	-	-	-	-	-						-	-	-	-		
1432567								2A								
4361527			-	-	-			-	-	-						
3526417	-					-	-				-	-	-	-		
3154267	-	-	-	-	-						-	-	-	-		
4215367								3B								
2167354			-	-	-			-	-	-				s		
2463517	-	-	-			-	-	-	-							
4516237	-					-	-				-	-	-	-		
4352167	-	-	-	-	-						-	-	-	-		
2135467								3B								
3425167								2C								
2314567								B								

In this peal all the -67's occur at backstroke.

59 Philip A B Saddleton

2314567	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6
2614357	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2615437	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2315647	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2715364	s	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2716534	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2714653	s	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2413576																										
2713456	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2613745	s	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2614375	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2714635	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2713465	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2715346	s	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2314567																										

60 Andrew Johnson

2314567	1	2	3	4	5	6	7	8	9	0	1	2
2147536	-	-	-	-	-	-	-	-	-	-	-	-
2534617	-	-	-	-	-	-	-	-	s	-	-	-
7435216	-	-	-	-	-	-	-	s	-	-	-	-
3561724	-	-	-	-	-	-	-	-	-	-	-	-
3564712	-	-	-	-	-	-	-	-	-	-	-	-
5463127	-	-	-	-	-	-	-	-	-	-	-	-
4352167	-	-	-	-	-	-	-	-	-	-	-	-
4527136	-	-	-	-	-	-	-	-	-	-	-	-
4135627	-	-	-	-	-	-	-	-	-	-	-	-
7514236	-	-	-	-	-	-	-	-	-	-	-	-
5142367												
2314567												

61 Andrew Johnson

2314567	1	2	3	4	5	6	7	8	9	0	1	2
2147536	-	-	-	-	-	-	-	-	-	-	-	-
2531647	-	-	-	-	-	-	-	-	-	-	-	-
7152436	-	-	-	-	-	-	-	-	-	-	-	-
1465732	-	-	-	-	-	-	-	-	-	-	-	-
4561327	-	-	-	-	-	-	-	-	-	-	-	-
5473216	-	-	-	-	-	-	-	-	-	-	-	-
5413267	-	-	-	-	-	-	-	-	-	-	-	-
3261457												
1534276	-	-	-	-	-	-	-	-	-	-	-	-
1524367	-	-	-	-	-	-	-	-	-	-	-	-
4362517												
3251476	-	-	-	-	-	-	-	-	-	-	-	-
3241567	-	-	-	-	-	-	-	-	-	-	-	-
4352167												
2165347												
1273456	-	-	-	-	-	-	-	-	-	-	-	-
2175436	-	-	-	-	-	-	-	-	-	-	-	-
2135467	-	-	-	-	-	-	-	-	-	-	-	-
4531267												
1263547												
1243576	-	-	-	-	-	-	-	-	-	-	-	-
1253467	-	-	-	-	-	-	-	-	-	-	-	-
2314567												

62 Andrew Johnson

"Aston Martin" version

2314567	1	2	3	4	5	6	7	8	9	0	1	2
2147536	-	-	-	-	-	-	-	-	-	-	-	-
2531647	-	-	-	-	-	-	-	-	-	-	-	-
7152436	-	-	-	-	-	-	-	-	-	-	-	-
1465732	-	-	-	-	-	-	-	-	-	-	-	-
4561327	-	-	-	-	-	-	-	-	-	-	-	-
5473216	-	-	-	-	-	-	-	-	-	-	-	-
4571236	-	-	-	-	-	-	-	-	-	-	-	-
4531267	-	-	-	-	-	-	-	-	-	-	-	-
1263547												
2175436	-	-	-	-	-	-	-	-	-	-	-	-
2135467	-	-	-	-	-	-	-	-	-	-	-	-
5463127												
1534276	-	-	-	-	-	-	-	-	-	-	-	-
1524367	-	-	-	-	-	-	-	-	-	-	-	-
4352167												
1253467												
3465217												
3415276	-	-	-	-	-	-	-	-	-	-	-	-
3425167	-	-	-	-	-	-	-	-	-	-	-	-
5142367												
3241567												
1564237												
5423176	-	-	-	-	-	-	-	-	-	-	-	-
5413267	-	-	-	-	-	-	-	-	-	-	-	-
2314567												

This and the previous peal contain bobs only. There are two further arrangements: in each case the ten parts may be rung in the reverse order.

63 Edward W Martin

2314567	1	2	3	4	5	6	7	8	9	0	1	2
5243761	s	s	s	s	s	s	s	s	s	s		
6523147		s	s				s			s		
7653124	s	s	s	s			s			s		
7613245		s	s	s	s	s	s	s	s	s		
7156243	s	s	s	s	s	s	s	s	s	s		
2451376		s			s	s	s		s			
5261347	s			s			s	s	s	s		
6574321	s			s			s	s	s			
3214576					A							
3162574	s	s	s	s	s	s	s		s			
5761432		s			s	s	s		s			
6521473	s			s			s	s	s	s		
6147253	s			s			s	s	s	s	s	
3215467					C							
5416732						D						
5417623						E						
2315476						2D						
4517632						2B						
4516723						E						
2314567						2D						

A B
C D
E

64 Brian D Price

2314567	1	2	3	4	5	6	7	8	9	0	1	2	3	4
4736152		-	-	-	-	-	-	-	-	-	-	-	-	-
6321745	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4627315		-	-	-	-	-	-	-	-	-	-	-	-	-
5342617	-	-	-	-	-	-	-	-	s	-	-	-	s	-
5426317	s	-	s	s	s	s	-	-	-	-	-	-	s	-
3465127						A								
3561427	s	-	s	s	s	s	-	-	-	s	-	-	s	-
4132567						B								
1563427						2C								
4312567						B								
2314567						D								

A B
C D

65 Brian D Price

2314567	1	2	3	4	5	6	7	8	9	0
5374162						-	s	-	-	-
2574163	s	-	s	s	s	s	-	-	-	-
2314657	-	-	-	-	-	-	-	-	-	-
2354761	-	-	-	-	s	-	-	-	-	-
6321745	-	-	-	-	-	-	-	-	-	-
5621743	-	-	-	-	-	s	-	-	s	-
5416723	-	-	s	-	-	-	-	-	-	-
2451367					A					
6251374	-	s	-	-	-	s	-	-	s	-
6712354	-	-	s	-	-	-	-	-	-	-
3215467					B					
6713254					2C					
2315467					B					
2314567					D					

A B
C D

66 Brian D Price

2314567	1	2	3	4	5	6	7	8	9	0
5612734	-	-	-	-	-	-	-	-	-	-
5342716	s	-	-	s	-	s	-	s	-	-
7612453	-	s	-	-	-	-	s	-	-	-
3516472	-	s	-	-	-	-	-	s	-	-
4516237	-	-	-	A	-	-	-	-	-	-
4516732	-	-	-	-	-	s	-	-	-	-
6713254	-	-	-	B	-	-	-	-	-	-
2517463	-	-	-	-	-	-	s	-	-	-
4517326	-	-	-	A	-	-	-	-	-	-
6215347	-	s	-	-	-	-	s	-	-	-
3215764	-	-	-	A	-	-	-	-	-	-
3215467	-	-	-	-	-	s	-	-	-	-
5416723	-	-	-	B	-	-	-	-	-	-
2315467	-	-	-	2C	-	-	-	-	-	-
6713245	-	-	-	2B	-	-	-	-	-	-
3214567	-	-	-	C	-	-	-	-	-	-
4516723	-	-	-	B	-	-	-	-	-	-
2314567	-	-	-	2C	-	-	-	-	-	-

This peal contains no more than two consecutive calls.

67 Brian D Price

2314567	1	2	3	4	5	6	7	8
6243175	s	s	-	-	-	-	-	-
1526473	-	-	s	-	-	-	-	-
7351246	-	s	s	-	-	-	-	-
4637521	-	s	s	-	-	-	-	-
2164357	-	s	s	-	-	-	-	-
5712634	-	s	s	-	-	-	-	-
3475162	-	s	s	-	-	-	-	-
6243715	-	s	s	-	-	-	-	-
7631452	-	-	-	-	-	-	-	-
4216537	-	s	-	s	-	-	-	-
3462157	-	s	-	-	-	-	-	-
5324671	s	s	-	-	-	-	-	-
6135274	-	-	s	-	-	-	-	-
2657341	-	-	-	-	-	-	-	-
3176452	-	s	-	s	-	-	-	-
5361742	-	s	-	-	-	-	-	-
4567231	-	-	-	A	-	-	-	-
3475612	s	s	-	-	-	-	-	-
1356724	-	s	-	-	-	-	-	-
7463251	-	s	-	s	-	-	-	-
5734621	-	s	-	-	-	-	-	-
7231456	-	-	-	2A	-	-	-	-
2314567	-	-	-	5B	-	-	-	-

This peal contains no more than two consecutive calls.

68 Edward W Martin

No 50

2314567	1	2	3	4	5	6	7	8	9	0
2714563	-	-	-	-	-	-	-	s	-	-
2157634	-	-	-	-	-	-	s	-	-	-
5643712	-	s	-	-	-	-	-	-	-	-
1724365	-	-	-	-	-	-	-	-	-	-
6352471	-	-	-	-	-	-	-	-	-	-
7415236	-	-	-	-	-	-	-	-	-	-
3261547	-	-	-	-	-	-	-	-	-	-
4576123	-	-	-	-	-	-	-	-	-	-
7345126	-	-	-	-	-	-	s	-	-	-
2673145	-	s	-	-	-	-	s	-	-	-
2573146	-	-	-	-	-	-	-	s	-	-
2715463	-	-	-	-	-	-	-	s	-	-
6327415	-	s	-	-	-	-	-	s	-	-
1563427	-	s	-	-	-	-	s	-	-	-
4753216	-	-	-	-	A	-	-	-	-	-
4653217	-	-	-	-	-	-	-	s	-	-
4526173	-	-	-	-	-	-	-	s	-	-
6732541	-	-	-	-	-	-	-	-	-	-
4167532	-	s	-	-	-	-	s	-	-	-
3627451	-	-	-	-	-	2A	-	-	-	-
2314567	-	-	-	-	-	5B	-	-	-	-

Start from the end of the first slow six for rotations of Rounds, Queen's and Tittums as part-ends.

69 Brian D Price

2314567	1	2	3	4	5	6	7	8	9	0
6174523	s	-	-	-	s	-	-	s	-	-
3614527	-	-	s	-	-	-	-	-	-	-
2673514	-	-	-	-	-	-	-	-	-	-
5647123	s	-	-	s	-	-	-	-	-	-
5624137	s	-	-	-	-	-	-	-	-	-
1542637	-	-	-	-	A	-	-	-	-	-
6143572	-	-	-	-	C	-	-	-	-	-
5732461	-	-	-	-	B	-	-	-	-	-
7431526	-	-	-	-	2C	-	-	-	-	-
5216374	-	-	-	-	B	-	-	-	-	-
2314567	-	-	-	-	2D	-	-	-	-	-

70 Philip A B Saddleton

2314567	1	2	3	4	5	6	7	8	9	0
2514637	-	s	s	-	-	-	-	-	-	-
3752641	-	-	-	-	-	-	-	-	-	-
6327415	-	-	-	-	-	-	-	-	-	-
5476132	-	-	s	-	-	-	-	-	-	-
2176345	-	-	s	-	-	-	-	-	-	-
4512367	-	-	-	-	-	-	-	-	-	-
3425671	-	-	-	-	-	-	-	-	-	-
4621357	-	-	-	-	B	-	-	-	-	-
7314562	-	s	-	-	-	-	-	-	-	-
7542631	-	s	s	-	-	-	-	-	-	-
7621354	-	s	s	-	-	-	-	-	-	-
4321567	-	-	s	-	-	-	-	-	-	-
6734512	-	-	-	-	-	-	-	-	-	-
5647123	-	-	-	-	-	-	-	-	-	-
1542637	-	-	-	-	2B	-	-	-	-	-
3517246	-	-	-	-	A	-	-	-	-	-
2314567	-	-	-	-	2C	-	-	-	-	-

71 Philip A B Saddleton

2314567	1	2	3	4	5	6	7	8	9	0
5346127					-					-
7345216	s	-			-	-	-	s	s	
2613457	-									
1453726	-									
1463725	-	-	-	-		s				
5463271	s	-			-	-		s		
5413267	-	-	-	-	-	-	-	-	-	
7254613										
6731524						s	s	-		
2561437	-	-			s				s	
2571463	-	-	-	-	-	-	-	-	-	
3425671	-	-	-	-	-	-	-	-	-	
2314567					6A					

A

73 Joseph W Parker

No 6

2314567	1	2	3	4	5	6	7	8	9	0
6215734	-	-	s							s
3617425	-	-			s					s
3642517	-	-					-	-		
3742165	-	s								
3152647			s	-	-	s				
3754612	-	-	s			s				s
3761254	-	-					-	-		
3462571	-	s					s			
7365142	-	-	s							s
4761235	-	-				s				s
4723561	-	-					-	-		
4125673	-	s					s			
2314567					6A					

A

Start with rounds as the second row of a six for cyclic part-ends.

72 Andrew Johnson

2314567	1	2	3	4	5	6	7	8	9	0
1253674			s				-	s		
1453672	-	s								
6421753			s	-	s		-	s	-	
7431526	-	s								s
3754261				s			-	s		
1743562	-									
1762543	-			s			-	s	-	
5732461	-	s								s
4536712					A					
2314567					6B					

A

B

74 James Higgins

2314567	1	2	3	4	5	6	7	8	9	0
6352174	s				-	s	s	s		
4316752	-	s				s	-	-		
5347216	-	-					-	-		
6352147	-	s					-	-		
7316452	-	s				s	-	-		
2347516	-	s				s	-	-		
6325147	-	s					-	-		
7316425	-	s				s	-	-		
5374216	-	s					-	-		
6354172	-	s				s				
7236154	-	-	s	-						
5472136	-	-	s	-			s	-		
2314567					6A					

A

Start from the end of the first slow six for cyclic part-ends.

B-blocks

A course of Stedman Doubles contains the in-course extent on five. Given any pair of bells we can construct a set of four B-blocks (*i.e.* a bob every six) with this pair dodging behind, in two pairs differing only in the order of the last two bells, with the rows on the front five of opposite nature between the two pairs. With a suitable choice of singles in place of bobs, it is not necessary that the front bells do the same work in the two blocks of a pair. For example, the four blocks below give all the rows with 67 behind:

2314567	2314576	2315467	1235476
- 3425167	- 3425176	- 3524167	- 2514376
- 3451267	- 3451276	- 3541267	- 2543176
- 4132567	- 4132576	- 5132467	s5321467
- 4125367	- 4125376	- 5124367	- 5314267
- 1543267	- 1543276	- 1453267	- 3452167
- 1532467	- 1532476	- 1432567	s3421576
- 5214367	- 5214376	- 4215367	s4135267
- 5243167	- 5243176	- 4253167	- 4152367
- 2351467	- 2351476	- 2341567	- 1243567
- <u>2314567</u>	- <u>2314576</u>	- <u>2315467</u>	- <u>s1235476</u>

These blocks can of course be rung forwards or backwards. The various blocks are joined using Q-sets of omits and/or singles. The choice of blocks will dictate how many opportunities for omits there are, and consequently a limit on the number of plain sixes in the extent.

Again the compositions are organized according to the number of parts. Many of the peals in this section are included for their historical interest. [75] is now believed the first true peal of Stedman Triples composed and rung, conducted from the manuscript by the composer on 22 May 1799, at St Giles-in-the-Fields. The composition was reconstructed from figures published by William Shipway (with apparent transcription or composer's errors) by Colin J E Wyld and William T Perrins in 1976. These figures start with one bob and finish with eight (*i.e.* from the eighth six-end as included here). [78-81] are based on the old-fashioned system of hunts: in each case half a peal can be obtained as an exact five-part, but an irregular arrangement of singles is needed to preserve the truth of the two halves. [82] is the first peal to be produced in two equal parts with just two common singles.

No [83] is a four-part with an extra single added in alternate parts, and can also be arranged as a two-part. [84] is an exact two-part with singles only. [85] and [86] show different ways of arranging three-part blocks. [87] and [88] are in the maximum possible ten equal parts, with [87] being close to a 20-part. [89] and [90], although seven-parts, differ in construction from [71-74], and require more calls. [91] results from an attempt to produce a seven-part with only two singles per part – this proves impossible, as rounds inevitably appears as the first part-end; however, the result is four separate seven-part blocks, which are joined with a Q-set called bob, single, bob, single.

[92] and [93] are not strictly B-block compositions, as both use the same device to join the rows from a set of ten B-blocks into five blocks, enabling a peal with bobs only to be produced. Details were published in the *Ringling World* (24 February 1995).

75 John Noonan

2314567	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
2314756	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2316745	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2146735	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2341765	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6345217	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6275143	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2435176	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2465137	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6435127	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6375124	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6342715	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6415723	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6425713	-	-	-	-	-	-	-	-	-	s	-	-	-	-	-	-	-	-	-	-
6435721	s	-	-	-	-	-	-	-	-	s	-	-	-	-	-	-	-	-	-	-
6215734	s	-	-	-	-	s	-	-	-	-	-	-	-	-	-	s	-	-	-	-
6315724	-	-	-	-	-	s	-	-	-	-	-	-	-	-	s	s	-	-	-	-
6314752	-	-	-	-	-	-	s	-	-	-	-	-	-	-	-	-	s	-	-	-
6352741	-	-	-	-	-	-	s	-	-	-	-	-	-	-	-	-	-	-	-	-
5341726	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2641735	-	-	-	-	-	-	-	-	-	-	-	-	-	-	s	-	-	-	-	-
2346751	-	-	-	-	-	s	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2316457	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2356417	-	-	-	-	-	-	-	-	-	s	-	-	-	-	-	-	-	-	-	-
2376541	s	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1372465	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1572436	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3572416	-	-	-	-	-	-	-	-	-	-	-	-	-	s	-	-	-	-	-	-
6372451	-	-	-	s	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4372156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7352146	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4362175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5372164	s	-	-	-	-	-	-	-	-	s	-	-	-	-	-	-	-	-	-	-
5372416	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5376421	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5216743	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5412376	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5412637	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5416327	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5316724	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5316472	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2316475	-	-	-	-	-	-	-	-	-	-	-	s	-	-	-	-	-	-	-	-
2314567	-	-	s	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

76 Alan S Burbidge

No 1

2314567	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
2346715	-	-	s	-	-	-	-	s	-	-	-	-	-	-	-	-	-	s	-	-
2316745	-	-	-	-	-	-	-	s	-	-	s	s	-	-	-	-	s	s	-	-
2345716	-	-	s	-	-	-	-	s	-	-	-	-	-	-	s	-	-	s	-	-
2354761	-	-	-	-	-	-	-	-	-	-	-	-	-	s	-	-	-	s	-	-
2314756	-	-	-	s	-	s	-	-	-	s	s	-	-	s	-	-	-	s	-	-
2475613	-	-	s	-	s	-	-	s	-	-	-	-	s	-	-	-	-	-	-	s
2415637	-	-	-	s	-	-	-	-	s	-	-	-	-	s	-	-	-	-	-	s
7412635	-	-	-	-	s	-	-	-	s	s	-	-	s	-	s	-	s	s	-	-
7215643	s	-	-	-	-	-	-	-	-	s	s	-	-	s	s	-	-	-	s	s
1425637	s	s	s	-	s	-	-	-	-	s	-	-	s	-	s	-	-	-	-	s
1435672	-	-	-	-	s	-	-	-	-	s	-	-	-	-	-	-	-	-	-	s
7431652	-	-	s	-	s	-	-	-	-	-	-	-	-	s	-	s	-	-	-	-
7135642	s	s	-	-	s	s	-	-	s	-	s	-	-	-	s	-	s	-	-	-
7125634	-	-	-	-	-	-	-	-	-	s	-	-	-	-	s	-	-	-	-	-
7415623	-	s	s	-	-	s	s	-	-	s	-	-	-	s	-	-	-	-	-	s
3475621	-	-	-	-	s	-	-	-	-	s	-	-	-	-	s	-	-	-	-	s
2435617	-	-	-	-	s	-	-	-	-	s	-	-	-	-	-	-	-	-	s	s
2415673	-	-	-	-	s	-	-	-	-	s	-	-	-	-	s	-	-	-	-	s
1425673	-	-	-	-	s	-	-	-	-	s	-	-	-	s	-	-	-	-	-	s
1475632	-	-	-	-	s	-	-	-	-	s	-	-	-	-	s	-	-	-	-	s
3415627	-	-	s	-	s	-	-	-	-	s	-	-	-	-	s	-	-	-	-	s
7425136	-	-	-	-	s	-	-	-	-	s	-	-	-	-	-	-	-	-	s	-
7435621	-	s	s	-	s	-	-	-	-	-	-	-	-	-	-	-	-	-	-	s
7435162	-	-	-	-	-	-	-	-	-	-	-	-	-	s	-	s	-	s	s	s
2315674	-	-	-	s	-	-	-	-	-	s	-	-	-	-	s	-	-	-	-	-
2514763	-	-	s	-	-	-	-	s	-	-	-	-	-	s	-	-	-	-	-	-
2614735	-	-	-	s	-	-	-	-	-	-	-	-	-	-	s	-	-	-	-	-
5314726	-	-	-	s	-	-	-	-	-	-	-	-	-	-	s	-	-	s	s	-
2315746	s	-	-	-	-	-	-	-	-	-	-	-	-	-	s	s	-	-	-	s
2317465	s	-	s	-	-	-	-	s	-	-	-	-	-	s	-	-	-	-	-	s
2615743	-	-	s	-	-	-	-	s	-	-	s	-	-	s	-	-	-	-	s	s
6315742	-	-	s	s	-	-	-	-	-	-	s	-	-	s	-	-	-	-	-	-
4315762	-	-	-	-	-	-	-	-	-	-	-	-	-	-	s	-	-	-	-	-
2416753	-	-	-	-	s	-	-	-	-	s	-	-	-	-	s	-	-	s	s	-
4316752	-	-	-	-	-	-	-	-	s	s	-	-	-	s	s	-	-	-	-	s
2314765	s	-	s	-	-	-	-	-	s	s	-	-	-	s	s	-	-	-	-	s
2317564	-	-	s	-	-	-	-	-	-	s	-	-	-	-	s	-	-	-	-	s
2315647	-	-	s	-	-	-	-	-	-	s	-	-	-	-	s	-	-	-	-	s
2314675	-	-	s	-	-	-	-	-	-	s	-	-	-	-	s	-	-	-	-	s
2316475	-	-	s	-	-	-	-	-	-	s	-	-	s	-	-	-	-	-	-	s
2317456	-	-	s	-	-	-	-	-	-	s	-	-	-	-	s	-	-	-	-	s
2314567	s	-	s	-	-	-	-	-	-	s	-	-	-	-	s	-	-	-	-	s

77 Alan S Burbidge

No 2

2314567	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
2315674			s	-			s	-		s	-			s	-			s	-	
2314657	-	-	s	s	-	s	-	s	-											
3172465			s	-				s	s		s	-							s	s
4173526	-	s	-	s			s	-		s	s	s	s	s	s	s	s	s		
6172534	s	s	-	s			s	s		s	s			s	s			s	-	
2374561	s	-		s			s	s		s	s			-				s	s	
7214635			s	-			s	-		s				s	-	s	-	s	s	
5324671	-	s	-	s			s	-		s	-			s	-			s	-	
2371645	s		s	s			s	-						s	s					
2314756	-	-	s	-			s	-					s	s	-			s	-	s
2374516		s	s	s	-		s	s	-			s	-					s	s	
2314675	-	s	s		s	-		s	-				s	-				s	-	
1354672	s		s	s	s	-	s	-		s	-	s	-	s				s	-	
7524631	s		s	-			s	-		s	-						s	-	s	
1354627	s	-	-	-	-	s	-			s	-							s	s	
1274653	s		s	-			s	-		s	-			s	-					
1374625	s	-	s	s	s	-	s						s	-						
7314625	s		s	s	-		s	-		s	-			s	-			s	-	
2374615	s		s	s			s	-		s	s			s	s	-		s	-	
5314672	-	s	-				s	-		s	-			s	-			s	s	
7325641	s		s	-			s	-		s	s			s	s				-	s
7324651	-	s	-	s	s	s				s	-			s	-					
5314627	s		s	-			s	-						s	s	-		s	s	
3174526	s		s	-			s	s		s	-							s	-	
3176542	-	s	-	s			s	-		s	-									
3174562	s		s	s	-		s	-		s	s			-	s			s	s	
6173542	-	s	-							s	-			s	s			s	s	
6173524	-	s	-				s	-		s	s							s	-	
6132574	-	s	-				s	-		s	s								s	s
2376541	-	-	-	-	-	-				s	s			s	s					
2673514	-	s	s	-			s	-		s	-			s					s	-
2146573	-	s	-																s	s
6173245	-		s	s						s	s			s	s	s	s	s	-	
4176532	-	-	s	s			s	-		s	s			s	s					
2176534	s		s	s	s	s	s	s	-					s	s				s	-
2376154	-	s	-	s						s	-	s	-					s	s	-
3176524	-	s	-				s	s	s		s	s	s						s	-
3172564	s	s		s	s			s	s		s	s		s	s				s	-
3142576	-	s	-	s			s	-												s
2473516	-		s	s			s	s		s	s			s	-					
2674513	s	-	-				s	-		s	-			s	-			s	-	s
2314567	s	s	-				s	-		s	s	-		s	-					

78 Henry Cooper

arranged Joseph W Parker

231456	1	2	3	4	5	6	7	8	9	0	1	2	3	4
412635			s	-	-	-	-	-		s	-	s	-	s
624315	s	-	-	s	-	-	-	-		s	-	s	-	s
346125	s	-	-	-	-	-	s	-		s	-	s	-	s
163245	s	-	-	-	-	-	s	-		s	-	s	-	s
231465	s		s	-	s	-	-	s		s	-	s	-	s
412536			-	-	-	-	-	s		s	-	s	-	s
524613			s	-	-	-	-	-		s	-	s	-	s
645123	s	-	-	-	s	-	-	-		s	-	s	-	s
156243	s	s	-	-	-	-	-	-		s	-	s	-	s
261453	s	-	-	-	-	-	s	-		s	-	s	-	s
412563	s	-	-	s	-	-	-	-		s	-	s	-	s
524316			-	-	-	-	-	s		s	-	s	-	s
345621			-	-	s	-	-	-		s	-	s	-	s
653241	s	-	-	-	-	-	-	s		s	-	s	-	s
236451	s	s	-	-	-	-	-	-		s	-	s	-	s
462531	s	-	-	-	-	-	-	s		s	-	s	-	s
524361	s	-	-	-	s	-	-	-		s	-	s	-	s
345126			-	-	-	-	-	s		s	-	s	-	s
153642			s	-	s	-	-	s		s	-	s	-	s
631452	s	-	-	-	-	-	-	s		s	-	s	-	s
416532	s	-	-	-	-	-	-	s		s	-	s	-	s
564312	s	-	-	-	-	-	-	s		s	-	s	-	s
345162	s	-	-	-	-	-	s	-		s	-	s	-	s
153246			-	-	-	-	-	s		s	-	s	-	s
231654			-	-	-	-	s	-		s	-	s	-	s
612534	s	-	-	-	s	-	-	-		s	-	s	-	s
526314	s	-	-	-	s	-	-	-		s	-	s	-	s
365124	s	-	-	-	-	-	-	s		s	-	s	-	s
143265	s	-	-	-	-	-	-	-		s	-	s	-	s
231546			-	-	-	-	-	s		s	-	s	-	s
231456														

A

A

This peal contains equal numbers of bobs, singles and plain sixes.

79 Henry Cooper

rearranged

231456	1	2	3	4	5	6	7	8	9	0	1	2	3	4
412635	-	-	-	-	-	-	-	S	S	S	-	-	-	-
324516	-	-	-	-	-	-	-	S	-	-	-	-	S	-
543126	S	-	-	-	-	-	S	-	S	S	-	-	-	-
135246	S	-	-	-	-	-	-	S	S	S	-	-	-	-
251436	S	S	S	S	S	S	-	-	S	-	S	-	-	-
412356	S	S	-	-	-	-	S	S	S	S	-	-	-	-
624513	S	S	-	S	-	-	-	-	-	-	-	S	-	-
546123	S	S	S	S	S	S	-	-	S	S	-	-	-	-
165243	S	-	-	-	-	-	-	S	S	S	-	-	-	-
251463	S	-	-	-	-	-	-	-	S	S	-	-	S	-
412653	S	-	-	-	-	-	-	-	S	S	-	-	-	-
624315	-	-	-	-	S	-	-	-	S	S	-	-	-	-
346125	S	-	-	S	-	-	-	-	S	S	-	-	-	-
163245	S	-	-	-	-	-	-	-	S	S	-	-	-	-
231465	S	-	-	-	-	-	-	-	S	S	-	-	S	-
412536	-	-	-	-	-	-	-	-	S	S	-	-	-	-
524613	-	-	-	-	-	-	-	-	S	S	-	-	-	-
645321	-	-	-	-	-	-	-	-	S	S	-	-	-	-
524316	-	-	-	-	-	-	-	-	-	A	-	-	-	-
231456	-	-	-	-	-	-	-	-	-	3B	-	-	-	-

A

B

80 Henry Cooper

rearranged

231456	1	2	3	4	5	6	7	8	9	0	1	2	3	4
512634	-	-	-	-	-	-	-	S	-	-	-	S	-	-
625314	S	-	S	-	-	-	-	-	S	-	-	-	S	-
356124	S	-	-	-	-	-	-	-	S	S	-	-	S	-
163254	S	-	-	-	-	-	-	-	S	S	-	-	-	-
231564	S	S	S	S	S	S	-	-	S	S	-	-	-	-
512436	-	-	-	-	-	-	-	-	S	S	-	-	-	-
425613	-	S	-	-	-	-	-	-	-	S	-	S	-	-
654123	S	S	S	S	S	S	-	-	-	S	-	-	-	-
146253	S	-	-	S	-	-	-	-	-	S	-	-	S	-
261543	S	-	-	-	-	-	-	-	-	S	-	-	S	-
512463	S	S	-	S	-	-	-	-	-	S	-	-	S	-
425316	-	-	-	-	-	-	-	-	-	S	-	S	-	-
354621	-	S	-	S	-	-	-	-	-	S	-	S	-	-
643251	S	-	-	-	S	-	-	-	-	S	-	-	S	-
236541	S	S	S	-	-	-	-	-	-	S	-	-	S	-
562431	S	-	-	-	-	-	-	-	-	S	-	-	S	-
425361	S	-	-	-	-	-	-	-	-	S	-	-	S	-
354126	-	-	-	-	-	-	-	-	-	S	-	-	S	-
143652	-	S	S	S	S	S	-	-	-	S	-	-	S	-
631542	S	S	-	-	-	-	-	-	-	S	-	-	S	-
516432	S	-	-	-	S	-	-	-	-	-	-	-	S	-
465312	S	-	-	-	-	-	-	-	-	S	-	-	S	-
354162	S	S	-	-	S	-	-	-	-	S	-	-	S	-
143256	-	-	-	-	-	-	-	-	-	S	-	-	S	-
231645	-	S	-	-	-	-	-	-	-	S	-	-	S	-
612435	S	-	-	-	-	-	-	-	-	S	-	-	S	-
426315	S	S	S	S	S	S	-	-	-	S	-	-	S	-
364125	S	-	-	-	-	-	-	-	-	S	-	-	S	-
143265	S	-	-	-	-	-	-	-	-	S	-	-	S	-
231546	-	-	-	-	-	-	-	-	-	S	-	-	S	-
412635	-	S	S	-	-	-	-	-	-	-	-	-	S	-
624315	S	-	-	-	-	-	-	-	-	S	-	-	S	-
346125	S	-	-	-	-	-	-	-	-	S	-	-	S	-
163245	S	-	-	-	-	-	-	-	-	S	-	-	S	-
231465	S	-	-	-	-	-	-	-	-	S	-	-	S	-
412536	-	-	-	-	-	-	-	-	-	S	-	-	S	-
524613	-	-	-	-	-	-	-	-	-	S	-	-	S	-
524316	-	-	-	-	-	-	-	-	-	-	-	-	A	-
231456	-	-	-	-	-	-	-	-	-	-	-	-	-	3B

A

B

81 Thomas Edwards

arranged A J Ellis

2314567	1	2	3	4	5	6	7	8	9	0	1	2	3	4
4127365	-	-	-	-	-	-	-	-	-	-	-	-	S	-
7243165	-	S	S	S	S	-	-	-	S	-	-	-	S	-
3471265	-	-	-	-	-	S	S	-	-	-	S	-	-	-
1732465	-	S	S	-	-	-	-	-	-	-	S	-	-	-
2315764	-	-	-	-	-	-	-	-	-	-	-	-	-	S
5124367	-	-	-	-	-	-	-	-	-	-	-	-	-	S
4257163	-	-	-	-	-	-	-	-	-	-	-	-	-	S
7541263	-	-	-	-	-	S	S	-	-	-	S	-	-	S
1472563	S	-	S	-	-	-	-	-	-	-	S	-	-	-
2715463	-	S	S	-	-	-	-	-	-	-	-	-	S	-
5124763	-	S	S	-	-	-	-	-	-	-	-	-	-	S
4253167	-	-	-	-	-	-	-	-	-	-	-	-	-	S
3547261	-	-	-	-	-	-	-	-	-	-	-	-	-	S
7432561	-	S	S	-	-	-	-	-	-	-	S	-	-	S
2375461	-	-	-	-	-	-	-	-	-	-	S	S	-	S
5724361	-	S	S	-	-	-	-	-	-	-	-	-	-	S
4253761	-	-	-	-	-	S	S	-	-	-	-	-	-	S
3541267	-	-	-	-	-	-	-	-	-	-	-	-	-	S
1437562	-	-	-	-	-	-	-	-	-	-	-	-	-	S
7315462	-	S	S	S	S	S	S	S	S	-	-	-	-	S
5174362	-	S	S	-	-	-	-	-	-	-	-	-	S	-
4753162	-	S	S	-	-	-	-	-	-	-	-	-	S	-
3541762	-	S	S	-	-	-	-	-	-	-	-	-	-	S
1432567	-	-	-	-	-	-	-	-	-	-	-	-	-	S
2317465	-	-	-	-	-	-	-	-	-	-	-	-	-	S
7124365	-	-	-	-	-	-	-	-	-	-	-	-	-	S
4273165	S	-	S	-	-	-	-	-	-	-	-	-	-	S
3741265	-	S	S	-	-	-	-	-	-	-	-	-	-	S
1432765	-	S	S	S	S	-	-	-	-	-	-	-	-	S
2315467	-	-	-	-	-	-	-	-	-	-	-	-	-	S
2314567	-	-	-	-	-	-	-	-	-	-	-	-	-	A

A

82 G Wilfred Slack

2314567	1	2	3	4	5	6	7	8	9	0
2316547	s	-	-	-	-	-	-	-	-	-
2317564	-	-	-	-	-	-	-	-	-	-
6217534	-	-	-	-	-	-	-	-	-	-
6257431	-	-	-	-	-	-	-	-	-	-
5237461	-	-	-	-	-	-	-	-	-	-
1257463	-	-	-	-	-	-	-	-	-	-
1237456	-	-	-	-	-	-	-	-	-	-
1267435	-	-	-	-	-	-	-	-	-	-
6217453	-	-	-	-	-	-	-	-	-	-
6217345	-	-	-	-	-	-	-	-	-	-
6237415	-	-	-	-	-	-	-	-	-	-
4317526	-	-	-	-	-	-	-	-	-	-
6417523	-	-	-	-	-	-	-	-	-	-
6342517	-	-	-	-	-	-	-	-	-	-
6342751	-	-	-	-	-	-	-	-	-	-
6345127	-	-	-	-	-	-	-	-	-	-
6347152	-	-	-	-	-	-	-	-	-	-
6342175	-	-	-	-	-	-	-	-	-	-
6347521	-	-	-	-	-	-	-	-	-	-
6317542	-	-	-	-	-	-	-	-	-	-
6341572	-	-	-	-	-	-	-	-	-	-
6341257	-	-	-	-	-	-	-	-	-	-
6341725	-	-	-	-	-	-	-	-	-	-
6327514	-	-	-	-	-	-	-	-	-	-
2314576	-	-	-	-	-	-	-	-	-	-
2315746	-	-	-	-	-	-	-	-	-	-
6215743	-	-	-	-	-	-	-	-	-	-
1265473	-	-	-	-	-	-	-	-	-	-
1235467	-	-	-	-	-	-	-	-	-	-
1275436	-	-	-	-	-	-	-	-	-	-
7235416	-	-	-	-	-	-	-	-	-	-
6275413	-	-	-	-	-	-	-	-	-	-
6215374	-	-	-	-	-	-	-	-	-	-
6235471	-	-	-	-	-	-	-	-	-	-
6215437	-	-	-	-	-	-	-	-	-	-
6325741	-	-	-	-	-	-	-	-	-	-
6315724	-	-	-	-	-	-	-	-	-	-
6345712	-	-	-	-	-	-	-	-	-	-
4315762	-	-	-	-	-	-	-	-	-	-
6415732	-	-	-	-	-	-	-	-	-	-
2316754	-	-	-	-	-	-	-	-	-	-
2314765	-	-	-	-	-	-	-	-	-	-
2314567	-	-	-	-	-	-	-	-	-	-

A

83 Philip A B Saddleton

2314567	1	2	3	4	5	6	7	8	9	0
2614735	-	-	-	-	-	-	-	-	-	-
2314756	-	-	s	-	-	-	-	-	-	s
7354162	-	-	-	-	-	-	-	-	-	-
7254136	-	-	-	-	-	-	-	-	-	-
7264153	-	-	-	-	-	-	-	-	-	-
3164572	-	-	-	-	-	-	-	-	-	-
7135264	-	-	-	-	-	-	-	-	-	-
7265413	-	-	-	-	-	-	-	-	-	-
7265341	-	-	-	-	-	-	-	-	-	-
1762435	-	-	-	-	-	-	-	-	-	-
1432576	-	-	-	-	-	-	-	-	-	-
1742653	-	-	-	-	-	-	-	-	-	-
4352671	-	-	-	-	-	-	-	-	-	-
6372145	-	-	-	-	-	-	-	-	-	-
5342761	-	-	-	-	-	-	-	-	-	-
7546123	-	-	-	-	-	-	-	-	-	-
7246351	-	-	-	-	-	-	-	-	-	-
1546327	-	-	-	-	-	-	-	-	-	-
3526714	-	-	-	-	-	-	-	-	-	-
3216754	-	-	-	-	-	-	-	-	-	-
3215467	-	-	-	-	-	-	-	-	-	-
3615724	-	-	-	-	-	-	-	-	-	-
2315746	-	-	-	-	-	-	-	-	-	s
3214567	-	-	-	-	-	-	-	-	-	-
2314567	-	-	-	-	-	-	-	-	-	-

A

B

84 Philip A B Saddleton

2314567	1	2	3	4	5	6	7	8	9	0
2615743	s	s	-	-	s	s	-	-	s	s
3217456	s	-	s	-	-	-	-	s	s	-
3275461	s	-	s	s	s	s	-	s	-	s
7615423	s	-	-	s	-	-	-	s	-	s
3267415	s	s	-	s	-	-	-	s	-	-
3214567	s	s	s	-	s	s	s	s	-	-
3615742	s	s	-	s	s	-	-	-	s	s
2317456	s	-	s	-	-	-	-	s	s	-
2375614	-	s	s	-	s	s	-	s	-	-
6215473	s	s	s	-	s	-	-	-	-	s
3715426	s	s	-	s	-	-	-	s	s	s
2314657	s	s	-	-	-	s	-	s	s	-
6274531	-	-	s	-	-	s	s	s	s	s
3615724	s	-	-	-	-	s	s	s	-	-
7216453	s	s	-	-	-	-	-	-	s	s
3714562	-	s	s	s	s	-	-	-	s	s
2317645	-	s	s	s	s	-	-	-	-	s
6214537	-	s	-	-	-	s	s	s	s	-
3674521	s	-	s	-	-	s	s	s	s	s
2315746	s	-	-	-	-	s	-	s	s	-
2375461	-	-	s	s	s	s	s	s	-	s
2374651	-	s	s	s	s	s	-	s	s	s
7614532	-	-	-	s	-	-	-	s	s	-
2364517	s	s	-	s	-	-	-	s	-	-
2315674	s	-	s	-	s	s	s	-	-	-
7216435	-	s	s	-	-	-	-	s	-	s
3264517	s	s	-	s	s	-	-	s	-	-
6314572	s	-	s	s	s	-	-	s	-	-
3214756	-	-	-	-	-	-	-	-	-	-
3267541	-	-	s	s	s	s	-	s	s	s
3214675	-	-	s	-	s	s	-	s	s	-
7316524	-	s	s	-	-	-	-	s	-	s
2315467	s	s	-	-	s	s	-	s	s	-
2314567	-	-	-	-	-	-	-	-	-	-

A

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85 Albert J Pitman

2314567	1	2	3	4	5	6	7	8	9	0
2316547	s	-	-	-	-	-	-	-	-	-
2716534	-	-	-	-	-	-	-	-	-	-
4236571	-	-	-	-	-	-	-	-	-	-
5236741	-	-	-	-	-	-	-	-	-	-
1236754	-	-	-	-	-	-	-	-	-	-
4236715	-	-	-	-	-	-	-	-	-	-
4735162	-	-	-	-	-	-	-	-	-	-
2435167	-	-	-	-	-	-	-	-	-	-
2735146	-	-	-	-	-	-	-	-	-	-
6735124	-	-	-	-	-	-	-	-	-	-
6427153	-	-	-	-	-	-	-	-	-	-
6437125	-	-	-	-	-	-	-	-	-	-
5427361	-	-	-	-	-	-	-	-	-	-
2143765	-	-	-	-	-	-	-	-	-	-
2145736	-	-	-	-	-	-	-	-	-	-
2431657	-	-	-	A	-	-	-	-	-	-
2437615	-	-	-	-	-	-	-	-	-	-
2314576	-	-	-	A	-	-	-	-	-	-
5234761	s	-	-	-	-	-	-	-	-	-
5341726	-	-	-	-	-	-	-	-	-	-
5721634	-	-	-	-	-	-	-	-	-	-
5421673	-	-	-	-	-	-	-	-	-	-
5321647	-	-	-	-	-	-	-	-	-	-
5361742	-	-	-	-	-	-	-	-	-	-
5321764	-	-	-	-	-	-	-	-	-	-
5321476	-	-	-	-	-	-	-	-	-	-
5214736	-	-	-	-	-	-	-	-	-	-
5264713	-	-	-	-	-	-	-	-	-	-
3574621	-	-	-	-	-	-	-	-	-	-
3725614	-	-	-	-	-	-	-	-	-	-
4713652	-	-	-	-	-	-	-	-	-	-
4712635	-	-	-	-	-	-	-	-	-	-
2143756	-	-	-	-	-	-	-	-	-	-
7213654	-	-	-	-	-	-	-	-	-	-
2431675	-	-	-	B	-	-	-	-	-	-
6241573	-	-	-	-	-	-	-	-	-	-
2314567	-	-	-	B	-	-	-	-	-	-

A
B

86 Philip A B Saddleton

2314567	1	2	3	4	5	6	7	8	9	0
2376145	-	-	-	-	-	-	-	-	-	s
2375164	-	-	-	-	-	-	-	-	-	-
4375126	-	-	-	-	-	-	-	-	-	-
4275631	-	-	-	-	-	-	-	-	-	-
1435627	-	-	-	-	-	-	-	-	-	-
1423765	-	-	-	-	-	-	-	-	-	-
7413652	-	-	-	-	-	-	-	-	-	-
7453216	-	-	-	-	-	-	-	-	-	-
7253146	-	-	-	-	-	-	-	-	-	-
6243571	-	-	-	-	-	-	-	-	-	-
5246137	-	-	-	-	-	-	-	-	-	-
5216734	-	-	-	-	-	-	-	-	-	-
5316427	-	-	-	-	-	-	-	-	-	-
4315762	-	-	-	-	-	-	-	-	-	-
4361752	-	-	-	-	-	-	-	-	-	-
4325716	-	-	-	-	-	-	-	-	-	-
4312756	-	-	-	-	-	-	-	-	-	-
6312745	-	-	-	-	-	-	-	-	-	-
5314726	-	-	-	-	-	-	-	-	-	-
5364712	-	-	-	-	-	-	-	-	-	-
5316742	-	-	-	-	-	-	-	-	-	-
5316274	-	-	-	-	-	-	-	-	-	-
5213467	-	-	-	-	-	-	-	-	-	-
5716432	-	-	-	-	-	-	-	-	-	-
5746231	-	-	-	-	-	-	-	-	-	-
5746123	-	-	-	-	-	-	-	-	-	-
5716243	-	-	-	-	-	-	-	-	-	-
5216374	-	-	-	-	-	-	s	-	-	-
2314567	-	-	-	-	-	-	-	-	-	-

A
2A

87 James Higgins

2314567	1	2	3	4	5	6	7	8	9	0	1	2
3527146	-	-	s	s	s	-	-	s	s	-	-	-
3624157	-	s	-	-	-	s	s	s	s		-	-
3526174	-	-	s	-	-	s	-	-	s	-	-	-
3524167	-	-	-	s	s	-	-	-	-	-	-	-
3457216	-	-	s	s	-	-	s	s	s	-	-	-
3651247	-	s	-	-	-	s	s	s	s		-	-
3456271	-	-	s	-	-	s	-	-	s	-	-	-
3451276	-	-	s	-	-	s	-	-	s		-	-
2314567	-	-	-	-	-	-	-	-	-	-	-	-

A
9A

88 Roderick W Pipe

2314567	1	2	3	4	5	6	7	8	9	0	1	2
7461523	-	s	-	s	s	-	-	-	-	s	s	-
4256317	-	-	s	-	s	s	-	-	-	s	-	-
2436157	-	s	s	-	s	-	-	-	-	s	s	-
4673521	-	-	-	-	-	s	s	-	s	s	-	-
6571234	-	s	-	-	-	s	-	-	s	-	s	s
3125647	-	s	-	s	-	-	s	-	-	s	s	-
1532476	-	-	s	s	-	-	-	s	-	-	-	-
2314567	-	-	-	-	-	-	-	-	-	-	-	-

A
9A

89 Roderick W Pipe

No 1B

2314567	1	2	3	4	5	6	7	8	9	0
2356174	s	s	s	-	s	s				
2574163	-	s	-	s	s	s				
2574613			-	s						
2374651	-	s	-	s	s	-	s			
2754631	-	s	s	-	s		s			
1532674	-	s	-		s					
6532714		s	s	s	-		-	s		
4152736	-	s	-		-	-	s	s		
4162375	s	-			-	s				
4362715		-	s	s	-					
4152763	s	s	s		-	-	s	-	s	
4536712	s	s	s	s	-					
2314567					6A					

A

90 Roderick W Pipe

No 1C

2314567	1	2	3	4	5	6	7	8	9	0
2573146	s	s	s	s					s	
2134675	s	s	s	s	s				s	
7152643	s		s	s	s		s	s	s	
7652314		s	s		s	s	s	s	s	
5623147		s	s	s		s	s	s		
2673154	s		s	s		s	s	s	s	
5263147	s		s	s	s	s	s	s		
5423176	s	s	s		s	s	s	s		
5437261	s	s		s	s		s	s		
5637124		s	s		s	s	s	s	s	
5271436		s	s		s					
3425671		s	s			s	s			
2314567					6A					

A

91 Philip A B Saddleton

2314567	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6
4127356	-	-														
7246135	-	-														
6475213	-	-														
5763421	-	-														
3651742	-	-														
1532674	-	-														
2317546	-	-	-													
7125346	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1532746	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2316574	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1534627	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4126375								5A								
6243175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2314675	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4125367	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2316547	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	s
1537624	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3654712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5762431	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6471253	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7243165	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4125376	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2317564	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7125364	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1532764	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2314576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4126357	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1534672								5B								
4316572	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3651472	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1532647	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2314567	-	-	-	-	-	-	-	-	-	-	-	-	-	-	s	

A

B

92 Colin J E Wyld

2314567	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
2561743	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5361742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4365712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4163275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4165237	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4172365	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2146357	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2517364	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2547316	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2571634	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2541673	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6541723	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6751234	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6451273	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7453612	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7613524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7413562	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2473561	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2413576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7215643	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1253674	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1243657	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5213764	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5123746	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5143627	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5643217	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6123754	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6425731	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6124735	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6143725	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6543712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5163724	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5276134	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4356172	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4367152	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4257163	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4657321	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4352167	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5312674	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7214563	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7624513	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2314567	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

This is the first peal to be composed using common bobs only.

93 Andrew Johnson and Philip A B Saddleton

2314567	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
2416753	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3415762	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3425716	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7214635	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5247136	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5274631	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3715642	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7451623	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4752613	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3156247	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4756231	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3456271	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7356241	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1456237	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4752361	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3752641	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4752136	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7453612	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1732645	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1532746	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1432657	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1472635	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6534721	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1534762	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2134765	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1734652	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1745263	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1742653	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7152643	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3417652	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3217564	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5413672	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5247361	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4517632	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4516372	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4517326	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3215674	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3215746	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3465721	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3456712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7316542	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2314567	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

This is the first peal to be rung with common bobs only (St John the Evangelist, Waterloo, 22 January 1995).

Erin

There is not the same variety of construction for peals of Erin as for Stedman, since a set of B-blocks cannot be found that between them contain all the rows with a particular pair in 6-7. Nor, as far as I know, are there any blocks that can be joined using pairs of extras and omits. All the peals therefore fall into the category of *Regular Course-end Plans*.

[1-4] use Hudson's 60 courses. [5-7] use Thurstans' 20 part-ends: the block used for [5] has bobs only, leading to an arrangement with only two singles. [6] is a more regular, ten-part arrangement based on the same block, while [7] uses a different block that keeps the 7th unaffected. [8] is an exact ten-part made up from four identical five-part blocks: the part-ends do not form a group, but two cosets of a ten-part group. [9] is a ten-part made up from two sets of five bobs-only blocks. [10] is a five-part made up from two bobs-only blocks: this can be rearranged with only two singles. [11] and [12] use different groups of order 24 which each consist of permuting three pairs and swapping within the pairs: in [11] the block is a palindrome, resulting in a 12-part peal. [13] and [14] are on the 21-part plan, with rotations of Rounds, Queen's and Tittums as the part-ends.

1 Joseph W Parker

123456	1	2	3	4	5	6	7	
532416	-	-						A
413652	s	-	-	-	-			
231645	s	-	-	-	-			
635124				3A				B
123465	s	-	-	-	-			
452613	-	-	-	-	-			
325641	s	-	-					C
621534			3C					
312564	-	-						
615342			2A					A
425136			2B					
624351			4C					
542361	-	-						B
341256			3A					
514236	-	-						
413625			A					B
123456			B					

3 Philip A B Saddleton

1234567	1	2	3	4	5	6	7	8	9	0	1	2	3	4	
3426517	s	-	-	-				s							A
2514637	s		s												
1457623	s			-	-	-		s						s	
1635427	-	-	-	s											B
3562417	s			-	-	-		s							
6251437	s			-	-	-		s							
5127463	s			-	-	-		s						s	A
5432167	-	-	-	s											
6415237							A								
1543267	s			-	-	-		s							B
4321567						3B									
6354127						A									
5123467	s		s												A
1234567						4B									

The first peal to be composed in the method.

2 Edward W Martin

No 12

1234567	1	2	3	4	5	6	7	
4362157	s	-	-					A
2463157				-				
6243517	s		-					
4126537				-	-			B
6231457	s	-	-					
1523647		s						
2451637				-	-			A
1534267	s	-	-					
4135267				-				
3417625	s		-			s		B
3651247			-					
5361427	s	-	-					
6235417				-	-			A
3152467			3A					
1234567			4B					

This peal contains no consecutive calls.

4 Philip A B Saddleton

1234567	1	2	3	4	5	6	7	8	9	0	1	2	3	4	
3127654			-			s	-	-	-	s					A
3562417	-		s		-	-	-	-		s					
2435617			-		s		-	-	-					s	
5624317			-		s		-	-	-					s	B
2567134			-		s		-	-	-	s					
2316457	-		s		-	-	-	-		s					
6423157			-		s		-	-	-					s	A
2154367	s		s												
3614527						A									
4536127			-		s		-	-	-					s	B
6145327			-		s		-	-	-					s	
4321567	s		s												
5432167						3B									A
1642357						A									
4356217	s		s												
6243517			-		s		-	-	-					s	B
4512367	s		s												
1234567						4B									

5 Philip A B Saddleton

1234567	1	2	3	4	5	6	7	8	9	0	1	2	3
5143267	-	-	-	-	-	-	-	s	-	-	-	-	-
6235147	-	-	-	-	-	-	-	-		-	-	-	-
3142567	-	-	-	-	-	-	-	-	-	-	-	-	-
2563741	-	-	-	-	-	-	-	-	-	-	-	-	-
3465127	-	-	-	-	-	-	-	-	-	-	-	-	-
6124537	-	-	-	-	-	-	-	-	-	-	-	-	-
2531467	-	-	-	-	-	-	-	-	-	-	-	-	-
5314267	-	-	-	-	-	-	-	-	-	-	-	-	-
6341257	-	-	-	-	-	-	-	-	-	-	-	-	-
5412367	-	-	-	-	-	-	-	-	-	-	-	-	-
6214357	-	-	-	-	-	-	-	-	-	-	-	-	-
5146237	-	s		-	-	-	-	-	-	-	-	-	-
4216735	-	-	-	-	-	-	-	-	-	-	-	-	-
3125647	-	-	-	-	-	-	-	-	-	-	-	-	-
1564723	-	-	-	-	-	-	-	-	-	-	-	-	-
4265317	-	-	-	-	-	-	-	-	-	-	-	-	-
6312547	-	-	-	-	-	-	-	-	-	-	-	-	-
1543267	-	-	-	-	-	-	-	-	-	-	-	-	-
4321567	-	-	-	-	-	-	-	-	-	-	-	-	-
5416327	-	-	-	-	-	-	-	-	-	-	-	-	-
1234567	-	-	-	-	-	-	-	-	-	-	-	-	-



8 Andrew Johnson

1234567	1	2	3	4	5	6	7
5273146	-	-	-	-	-	-	-
6523417	-	-	-	-	-	-	-
2651734	-	-	-	-	-	-	-
7564231	-	-	-	-	-	-	s
1356724	-	-	-	-	-	-	-
5742136	-	-	-	-	-	-	-
4317526	-	-	-	-	-	-	-
4253671	-	-	-	-	-	-	-
1275436	-	-	-	-	-	-	-
7463152	-	-	-	-	-	-	s
2546713	-	-	-	-	-	-	-
3451276	-	-	-	-	-	-	s
1234567	-	-	-	-	-	-	-



6 Philip A B Saddleton

1234567	1	2	3	4	5	6	7	8	9	0	1	2	3
5143267	-	-	-	-	-	-	-	s	-	-	-	-	-
6235147	-	-	-	-	-	-	-	-	-	-	-	-	-
4351267	-	-	-	-	-	-	-	-	-	-	-	-	-
6214357	-	-	-	-	-	-	-	-	-	-	-	-	-
5146237	-	s		-	-	-	-	-	-	-	-	-	-
4216735	-	-	-	-	-	-	-	-	-	-	-	-	-
3125647	-	-	-	-	-	-	-	-	-	-	-	-	-
7243561	-	-	-	-	-	-	-	-	-	-	-	-	-
4265317	-	-	-	-	-	-	-	-	-	-	-	-	-
6312547	-	-	-	-	-	-	-	-	-	-	-	-	-
1543267	-	-	-	-	-	-	-	-	-	-	-	-	-
2134567	-	-	-	-	-	-	-	-	-	-	-	-	-
6542137	-	-	-	-	-	-	-	-	-	-	-	-	-
3426517	-	s		-	-	-	-	-	-	-	-	-	-
4321567	-	-	-	-	-	-	-	-	-	-	-	-	-
3215467	-	-	-	-	-	-	-	-	-	-	-	-	-
4356217	-	-	-	-	-	-	-	-	-	-	-	-	-
3451267	-	-	-	-	-	-	-	-	-	-	-	-	-
1234567	-	-	-	-	-	-	-	-	-	-	-	-	-



9 Andrew Johnson

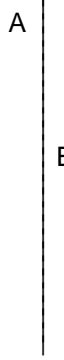
1234567	1	2	3	4	5	6	7	8	9	0	1	2
4561732	-	-	-	-	-	-	-	-	-	-	-	-
1365247	-	-	-	-	-	-	-	-	-	-	-	-
5731264	-	-	-	-	-	-	-	-	-	-	-	-
1463725	-	-	-	-	-	-	-	-	-	-	-	-
7234516	-	-	-	-	-	-	-	-	-	-	-	-
4125763	-	-	-	-	-	-	-	s	-	-	-	-
4517362	-	-	-	-	-	-	-	-	-	-	-	-
3264571	-	-	-	-	-	-	-	-	-	-	-	-
1543267	-	-	-	-	-	-	-	-	s		-	-
7543216	-	-	-	-	-	-	-	-	-	-	-	-
3152764	-	-	-	-	-	-	-	-	-	-	-	-
3215467	-	-	-	-	-	-	-	-	-	-	-	s
4321567	-	-	-	-	-	-	-	-	-	-	-	-
7321546	-	-	-	-	-	-	-	-	-	-	-	-
4512367	-	-	-	-	-	-	-	-	-	-	-	-
1234567	-	-	-	-	-	-	-	-	-	-	-	-



7 Nigel J Newton

No 13

1234567	1	2	3	4	5	6	7
362154	-	-	-	-	-	-	-
156432	s	s	-	s	-	-	-
452613	s	-	-	s	-	-	-
231546	-	-	-	-	-	-	-
531426	-	s	s	-	-	-	-
163524	-	-	-	-	-	-	-
526413	s	s	-	s	-	-	-
423651	s	-	-	s	-	-	-
615243	-	-	-	s	-	-	-
631542	-	-	-	s	-	-	-
623145	-	-	-	s	-	-	-
652341	-	-	-	s	-	-	-
415362	-	s	s	-	s	-	-
321546	-	-	s	s	s	-	-
234516	-	-	-	-	-	-	-
123456	-	-	-	-	-	-	-



10 Andrew Johnson

1234567	1	2	3	4	5	6	7	8	9	0	1	2
4561732	-	-	-	-	-	-	-	-	-	-	-	-
1365247	-	-	-	-	-	-	-	-	-	-	-	-
1437256	-	-	-	-	-	-	-	-	-	-	-	-
5642137	-	-	-	-	-	-	-	-	-	-	-	-
2643571	-	-	-	-	-	-	-	-	-	-	-	-
4671253	-	-	-	-	-	-	-	-	-	-	-	-
1576432	-	-	-	s	-	-	-	-	-	-	-	-
6542137	-	-	-	-	-	-	-	-	-	-	-	-
7364152	-	-	-	-	-	-	-	-	-	-	-	-
2137564	-	-	-	-	-	-	-	-	-	-	-	s
7235614	-	-	-	-	-	-	-	-	-	-	-	-
3714625	-	-	-	-	-	-	-	-	-	-	-	-
2671435	-	-	-	-	-	-	-	-	-	-	-	-
2345167	-	-	-	-	-	-	-	-	-	-	-	-
1234567	-	-	-	-	-	-	-	-	-	-	-	-



11 Brian D Price

1234567	1	2	3	4	5	6	7	8	9	0
4321576	-	-	-	-	-	-	-	-	-	s
4526731					s					
3614257								s		
6132574		s								
4732561				s						
3762514					s					
1672345										
2761345										
1546723					A					
1672354						2B				
1324567							2C			
1673245								B		
1546732									C	
1673254										2B
1234567										2C

13 Nigel J Newton

No 7

1234567	1	2	3	4	5	6	7	8	9	0	1
2657134	-	-	-	-	-	-	-	s	-		
2674531									s		
3641572										s	s
5263741						s		s			
4623715								s			
4635217									s		
1657234										s	s
5724613						s		s	-	-	
1274635								s			
1245736									s		
3256741										s	s
7123456						s		s			
1234567											6A

12 Nigel J Newton

No 10

1234567	1	2	3	4	5	6	7
362154							
126345	s						
612354	s						
542163		s					
132465				s			
423615			s				
342651	s						
512436		s					
236451	s				s		
426351							
362415	s						
425631	s						
532641			s				
642315	s			s			
254613							
415326	s	s					
521643	s	s					
142356	s	s					
324165	s						
432156	s						
562341		s					
312645				s			
321654					A		
612534			s				
261543	s						
431625		s					
651324				s			
615342					A		
345612						B	
123456							2C

14 Nigel J Newton

No 8

1234567	1	2	3	4	5	6	7	8	9	0	1
6324571	-	-	-	-	-	-	-	s			
6341275									s		
7315246										s	s
2637415						s		s			
6135724									A		
3627145	-	-	-	-	-	-	-	s	-	s	
3174625		s							s	s	
3174265									s	-	
6534712										s	
5734126											
5746321									s		
2761345										s	s
3572461						s		s			
6374152											2A
3512674	-	-	-	-	-	-	-	s	-		
3524176									s		
7546123										s	s
1357246						s		s			
1234567											2B

Spliced

If the requirement that quick and slow sixes must alternate is relaxed, many more blocks may be found that may form the basis of compositions. In most cases these blocks contain more than one successive quick six, and so can hardly be considered as spliced Stedman and Erin. The first composition in this section has no calls, apart from the variation in the type of six. When rung, it was called as Erin, with the bob replacing a slow six with a quick six. I prefer to think of it as Spliced Erin and Bastow Little Bob.

The second composition splits the rows into separate blocks of Stedman and Erin, and so is genuinely Spliced.

1 Nigel J Newton

1234567
 1264357 a
 4356217 b
 7142356 c
 6154237 3e
 5314276 d
 5374126 a
 4127356 b
 6543127 c
 4253176 d
 1425376 3x
 1475236 a
 5237416 b
 3215467 f
 4512367 2z
 1234567 4x

x
z
y

a = 6,7,8,10 (12 sixes)
 b = 1,6,10 (12 sixes)
 c = 1,2,4,5,6,8 (8 sixes)
 d = 1,2,4,6,8,9,10 (10 sixes)
 e = 4,5,6,8 (8 sixes)
 f = 4,6,8,9,10 (10 sixes)

Calls are quick sixes.

2 Albert J Pitman

Start Stedman

1234567
 7243516 1. 2. 5s. 6s. 12s
 4236175 5s. 6s. 12s
 3265741 5s. 6s. 12s
 6251437 5s. 6s. 12s
 5217364 5s. 6s. 12s
 1274653 5s. 8s. 10s. 12s. 14s. 16s. 24s

A

change to Erin

3251674 1. 4s (5 sixes)
 6243751 4s (5)
 7216543 4s (5)
 4237516 1s. 4s (5)
 5264137 4s (5)
 3275164 1s. 6s. 8s. 10s. 12s. 14s (17)
 1243675 4s (5)
 6251743 4s (5)
 7236451 4s (5)
 4217536 4s (5)
 5264317 4s (5)
 1275364 1s. 6s. 8s. 10s. 12s. 14s (17)
 3241675 4s (5)
 4265317 B
 7132546 1s. 6s. 8s. 10s. 12s. 14s (16)

B

change to Stedman

6241537 2. 6s
 4217365 5s. 6s. 12s
 3264751 A
 7152643 5s. 8s. 10s. 12s. 14s. 16s (18)

change to Erin

4253176 2. 3s. 7s. 10
 4257631 1. 7
 1237654 1. 4. 5
 7263145 1. 6s. 9s
 7264531 1. 7
 7263154 1. 7s
 5247631 C
 1237645 1. 4. 5
 1234576 1. 7

C

Repeat. Note that the courses rung as Stedman start with a quick six, *i.e.* the course-end is the last row of a slow six and is the first calling position.

Index of Composers

Brook, T	10-12	Martin, E W	55-57, 63, 68, Erin 2
Bulwer, H E	26, 35	Newton, N J	Erin 7, 12-14, Spliced 1
Burbidge, A S	76, 77	Noonan, J	75
Carter, J	16, 21, 22, 25, 39	Parker, J J	15, 27
Cave, W A	4	Parker, J W	40, 41, 46, 51, 73, 78, Erin 1
Cooper, H	78-80	Pipe, R W	88-90
Davies, C D P	33, 34	Pitman, A J	43, 47, 48, 85, Spliced 2
Dexter, F H	5, 6, 11	Pitstow, N J	3
Diserens, N J	45, 50	Pladdys, J	7, 8
Edwards, T	81	Price, B D	44, 49, 64-67, 69, Erin 11
Ellis, A J	81	Saddleton, P A B	13, 14, 23, 28, 32, 37, 38, 58, 59, 70, 71, 83, 84, 86, 91, 93, Erin 3-6
Haley, H W	9	Scott, G N	24
Head, L	53	Sheppard, D J	12
Heywood, A P	2, 18	Slack, G W	82
Higgins, J	36, 54, 74, 87	Thurstans, T	1-14, 17, 34
James, E B	42	Washbrook, J W	19
Johnson, A	60-62, 72, 93, Erin 8-10	Wyld, C J E	92
Lancashire, J O	29, 52		
Lates, I J B	33		
Lindoff, G	20, 30, 31		