

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  
Philip A B Saddleton

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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		A	
143256			x					
315426		4T						
146532		s						
451362		x	x		x		A	
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				C
361524		x	x				
154263		x	x	x			
514236		x					
624513		x	x				
213546		x	x				A
542631						A	
461253	s						
132654						B	C
321465						C	
145623		x	x	x			
563241		x	x	x			B
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					B
145623	x	x					
423651	x	x					
132654				A			
361524	x	x				x	
631542		x					C
342516	x	x					
356412	x		x				
543162	x	x				x	
462135	x	x					
642153		x					A
453126	x	x					
416523	x		x				
154263	x	x				x	
563241	x	x					
624513		x				x	B
213546	x	x					
152436				B			
146532	x		x				
451362	x	x				x	
652341	x						C
541326	x	x					
435216				B			
143256	x		x	s			
426315						s	
234165	x	x				x	A
365142	x	x					
635124		x					
324156	x	x					
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				E
635124		x				x	
415632		x	x				
243615				A			A
265413	x		x				
642153	x	x				x	
312645		x	x				E
145623				4A			
521643				E			
354621				A			A
361524	x		x				
432561		x	x			x	
342516		x					A
542631	x		x		s		
356412					s		
543162	x	x				x	A
453126		x					
416523	x		x				
154263	x	x				x	T
514236		x					
123564		x				x	
213546		x					A
324156				4T			
526134	x						
215364	x	x				x	A
125346		x					
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-

A

4A

**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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

A

4A

**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  
B  
C

**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  
B  
C

**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			s				
4316275	-	s	s			s			s			s				
4615327	-	s	s			s			s			s				
3617425	-	s	s			s			s			s				
6215734	-	s	s	s		s			s			s				
6514273	-	s	s			s			s			s				
6413527	-	s	s			s			s			s				
6317452	-	s	s			s			s			s				
6712345	-	s	s			s			s			s				
3715642	-	s	s			s			s			s				
3512764	-	s	s			s			s			s				
5216374									B							
4517632									A							
6512437	-	s	s			s			s			s				
6217543	-	s	s			s			s			s				
6713254	-	s	s			s			s			s				
2714653	-	s	s			s			s			s				
7415263									B							
2413765	-	s	s			s			s			s				
2315476	-	s	s			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			
3614725	-	-	-	s			s		-	s	s			s					-	-			
4615372	-	-	-	-	-	s		s		-	-												
2314576	-	-	-	-	-																		
6413572											A												
3517246	-	-	-	s	s	-	s			s				s									
2516347	-	s	s		s		s																
5216374											B												
3214576	-	s	s		s		s																
2314567											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	-	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												

**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												

**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												

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		
7156243	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
3465127							A							
3561427	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	-	-
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 compositor'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	-	-	-	-	-	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	s
2415673	-	-	-	-	s	-	-	-	s	-	-	-	-	-	s	-	-	-	-	s
1425673	-	-	-	-	s	-	-	-	s	-	-	-	s	-	s	-	-	-	-	s
1475632	-	-	-	-	s	-	-	-	s	-	-	-	-	-	s	-	-	-	-	s
3415627	-	-	s	-	s	-	-	-	s	-	-	-	-	-	s	-	-	-	-	s
7425136	-	-	-	-	s	-	-	-	s	-	-	-	-	-	-	-	-	s	-	-
7435621	s	s	-	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	-			s
2374516		s	s	s	-		s	s	-		s	-							s	s
2314675	-	s	s	s	-		s	-		s	-			s	-			s	-	
1354672	s		s	s	s	-	s	-		s	-	s	-	s				s	-	
7524631	s		s	-			s	-		s	-			s	-			s	-	s
1354627	s	-	-	-	-	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	-		s	-	
5314672	-	s	-				s	-		s	-			s	-			s	s	
7325641	s		s	-			s	-		s	s			s	s			s	-	s
7324651	-	s	-	s	s	s	s	-						s	-			s	-	
5314627	s		s	-			s	-						s	s			s	-	s
3174526	s		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			s	s	
6173524	-	s	-				s	-		s	s			s	s			s	-	
6132574	-	s	-				s	-		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
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	-	S	-	-
412356	S	S	-	-	-	S	S	S	S	-	-	-	-	-
624513	S	S	-	S	-	-	S	-	-	-	S	-	-	-
546123	S	S	S	S	S	S	-	S	S	-	-	-	-	-
165243	S	-	-	-	-	-	S	S	S	-	-	-	-	-
251463	S	-	-	-	-	-	S	S	-	-	S	-	S	-
412653	S	-	-	-	-	-	S	S	S	-	-	-	-	-
624315	-	-	-	S	-	-	-	S	S	-	-	-	-	-
346125	S	-	-	S	-	-	-	S	S	-	-	-	-	-
163245	S	-	-	-	-	-	S	S	S	-	-	-	-	-
231465	S	-	-	-	-	-	S	S	-	-	S	-	S	-
412536	-	-	-	-	-	-	S	S	S	-	-	-	-	-
524613	-	-	-	-	-	-	S	S	S	-	-	-	-	-
645321	-	-	-	-	-	-	S	S	S	-	-	-	-	-
524316	-	-	-	-	-	-	-	-	-	-	-	-	-	-
231456	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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	-	-	S	-	-
231564	S	S	S	S	S	S	-	S	S	-	-	-	-	-
512436	-	-	-	-	-	-	-	S	S	S	-	-	-	-
425613	S	-	-	-	-	-	-	S	S	-	-	-	-	-
654123	S	S	S	S	S	S	-	S	S	-	-	-	-	-
146253	S	-	-	S	-	-	-	-	S	-	-	S	-	-
261543	S	-	-	-	-	-	-	S	S	-	-	S	-	-
512463	S	S	-	S	-	-	-	S	S	-	-	S	-	-
425316	-	-	-	-	-	-	-	S	S	S	-	-	-	-
354621	S	-	S	-	-	-	-	S	S	-	-	S	-	-
643251	S	-	-	-	S	-	-	-	S	-	-	S	-	-
236541	S	S	S	-	-	-	-	S	S	-	-	S	-	-
562431	S	-	-	-	-	-	-	S	S	S	-	-	-	-
425361	S	-	-	-	-	-	-	S	-	S	-	S	-	-
354126	-	-	-	-	-	-	-	S	S	S	-	-	-	-
143652	-	S	S	S	S	S	-	S	S	-	-	-	-	-
631542	S	S	-	-	-	-	-	-	S	-	-	S	-	-
516432	S	-	-	-	S	-	-	-	-	-	-	S	-	-
465312	S	-	-	-	-	-	-	S	S	-	-	S	-	-
354162	S	S	-	-	S	-	-	S	S	-	-	S	-	-
143256	-	-	-	-	-	-	-	S	S	S	-	-	-	-
231645	-	S	-	-	-	-	-	S	S	S	-	-	-	-
612435	S	-	-	-	-	-	-	S	S	-	-	S	-	-
426315	S	S	S	S	S	S	-	-	S	S	-	-	-	-
364125	S	-	-	-	-	-	-	S	S	-	-	S	-	-
143265	S	-	-	-	-	-	-	S	S	-	-	S	-	-
231546	-	-	-	-	-	-	-	S	S	-	-	S	-	-
412635	S	S	-	-	-	-	-	S	-	-	-	S	-	-
624315	S	-	-	-	-	-	-	S	S	S	-	-	-	-
346125	S	-	-	-	-	-	-	S	S	S	-	-	-	-
163245	S	-	-	-	-	-	-	S	S	S	-	-	-	-
231465	S	-	-	-	-	-	-	S	S	S	-	-	-	-
412536	-	-	-	-	-	-	-	S	S	S	-	-	-	-
524613	-	-	-	-	-	-	-	S	S	S	-	-	-	-
524316	-	-	-	-	-	-	-	-	-	-	-	-	-	-
231456	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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	-	-	-	S	-
1732465	-	S	S	-	-	-	-	-	S	-	-	-	-	-
2315764	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5124367	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4257163	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7541263	-	-	-	-	S	S	-	-	S	-	-	-	-	-
1472563	S	-	S	-	-	-	-	S	-	-	-	-	-	-
2715463	-	S	S	-	-	-	-	-	-	-	-	S	-	-
5124763	-	S	S	-	-	-	-	S	-	-	-	-	-	-
4253167	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3547261	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7432561	-	S	S	-	-	-	-	S	-	-	-	-	-	-
2375461	-	-	-	-	-	-	-	S	S	-	-	-	-	-
5724361	-	S	S	-	-	-	-	-	-	-	-	S	-	-
4253761	-	-	-	-	S	S	-	-	S	-	-	-	-	-
3541267	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1437562	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7315462	-	S	S	S	S	S	S	S	S	-	-	-	-	-
5174362	-	S	S	-	-	-	-	-	-	-	-	S	-	-
4753162	-	S	S	-	-	-	-	S	-	-	-	-	-	-
3541762	-	S	S	-	-	-	-	-	-	-	-	S	-	-
1432567	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2317465	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7124365	-	-	-	-	-	-	-	-	-	-	-	-	S	-
4273165	S	-	S	-	-	-	-	-	-	-	-	-	S	-
3741265	-	S	S	-	-	-	-	S	-	-	-	-	-	-
1432765	-	S	S	S	S	-	-	-	-	-	-	S	-	-
2315467	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-

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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	-	-	-	-	-

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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	-
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	-	-					B
635124			3A					
123465	s	-	-	-	-			C
452613	-	-	-	-				
325641	s	-	-					
621534			3C					
312564	-	-						
615342			2A					
425136			2B					
624351			4C					
542361	-	-						
341256			3A					
514236	-	-						
413625			A					
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				-							
3562417	s	-	-	-				s							
6251437	s	-	-	-				s							
5127463	s	-	-	-				s						s	
5432167	-	-	-	s				-							
6415237								A							B
1543267	s	-	-	-				s							
4321567								3B							
6354127								A							
5123467	s		s												
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	-						B
4126537								
6231457	s	-	-					
1523647		s						
2451637								
1534267	s	-	-					
4135267								
3417625	s	-					s	
3651247								
5361427	s	-						
6235417								
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	
2567134							s	-	-	-	s				
2316457	-		s				-	-	-		s				
6423157							s	-	-	-				s	
2154367	s		s												
3614527							A								B
4536127							s	-	-	-				s	
6145327							s	-	-	-				s	
4321567	s		s												
5432167							3B								
1642357							A								
4356217	s		s												
6243517							s	-	-	-				s	
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	-	-	-	-	-	-	-	-	s	-	-	-	-
6542137	-	-	-	-	-	-	-	-	-	-	-	-	-
3426517	-	s		-	-	-	-	-	-	-	-	-	-
4321567	-	-	-	-	-	-	-	-	-	-	-	-	-
3215467	-	-	-	-	-	-	-	-	-	-	-	-	-
4356217	-	-	-	-	-	-	-	-	-	-	-	-	-
3451267	-	-	-	-	-	-	-	-	-	-	-	-	-
1234567	-	-	-	-	-	-	-	-	-	-	-	-	-



**9 Andrew Johnson**

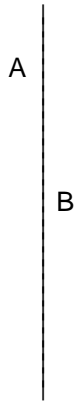
1234567	1	2	3	4	5	6	7	8	9	0	1	2
4561732	-	-	-	-	-	-	-	-	-	-	-	-
1365247	-	-	-	-	-	-	-	-	-	-	-	-
5731264	-	-	-	-	-	-	-	-	-	-	-	-
1463725	-	-	-	-	-	-	-	-	-	-	-	-
7234516	-	-	-	-	-	-	-	-	-	-	-	-
4125763	-	-	-	-	-	-	-	s	-	-	-	-
4517362	-	-	-	-	-	-	-	-	-	-	-	-
3264571	-	-	-	-	-	-	-	-	-	-	-	-
1543267	-	-	-	-	-	-	-	-	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	x
4127356	b	
6543127	c	
4253176	d	
1425376	3x	z
1475236	a	
5237416	b	y
3215467	f	
4512367	2z	
1234567	4x	

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	A
3265741	5s. 6s. 12s	
6251437	5s. 6s. 12s	
5217364	5s. 6s. 12s	
1274653	5s. 8s. 10s. 12s. 14s. 16s. 24s	

change to Erin

3251674	1. 4s (5 sixes)	
6243751	4s (5)	B
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)	

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	C
1237654	1. 4. 5	
7263145	1. 6s. 9s	
7264531	1. 7	
7263154	1. 7s	
5247631	C	
1237645	1. 4. 5	
1234576	1. 7	

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.

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