

CS61141B

MODEL 700™ M24

Model **SMS**™

Action

Barrel Length

Capacity

Order No. **5715**

* Includes 1 in chamber.

Remington

Remington
MODEL 700™ M24

VERY IMPORTANT:
Instruction Book
enclosed to assure
safe use of this
firearm.

DUPONT
REG. U.S. PAT. & TM. OFF.

SERIAL NO.
C6611418

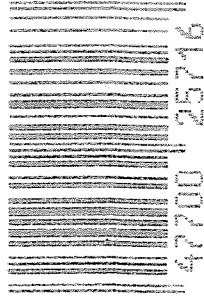
ORDER NO.
5716

MADE IN ILION, N.Y. U.S.A. Reg. U.S. Pat. & Tm. Off. Marca Registrada Marque Deposee.

5716 C6611418

20

UPC



7

CFM

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6611418

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock			RW
600	Proof			RW
607	Check Headspace	1 25	91	RW
610	Dis-assemble Gun	1 25	91	RW
612	Magnaflux Barrel Action			KR
	Magnaflux Bolt	1 25		KR
615	Rollmark Caliber	1 25	91	GL
617	Drill and Tap Sight Holes	1 30	91	FB
618	Polish Barrel RBB	1 30	91	WB
620	Apply Coatings (Barrel Action)		2-10-91	TJA
	Apply Coating (Bolt)			
625	Final Assembly			
	A) Clean inside of Bolt Assembly		2/11/91	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		2/11/91	RW
	C) Inspect Ejector Hole for Chamfer		2/11/91	RW
	D) Oil Firing Pin Ass'y		2/11/91	RW
	E) Adjust Trigger Pull to Min Setting and Stake		2/19/91	SL

op. #	BARBER - M24 0076496	READINGS					DATE	INIT
625 cont.	F) Safety On Force	4 ³ / ₄	4 ³ / ₄	4 ³ / ₄			2/19/91	WB
	G) Safety Off Force	3	3	3			2/19/91	WB
	H) Trigger Pull Test & Retainability						2/19/91	JK
	I) Firing Pin Indent	.023	.023	.023			2/19/91	WB
	J) Assemble Stock						2/20/91	RW
	K) Assemble Swivel Studs						2-22-91	AC
	L) Attach Front and Rear Sight Assemblies						2/20/91	RW
	M) Iron Sight Alignment						2/20/91	RW
	N) Detach Front & Rear Sights & place in numbered container						2/20/91	RW
	O) Attach Scope to Rifle						2/20/91	RW
	P) Detach & Attach Scope 20 Times						2/20/91	RW
640	Gallery Target & Test						2-20-91	NF
	A) Time						"	NF
	B) Malfunctions						"	NF
	C) Pierced Primers						"	NF
	D) Optical Clarity of Scope						"	NF
645	Inspect for Live Ammo						2-20-91	NF
655	Final Inspection						2-22-91	AC
	A) Headspace						2-22-91	AC
	B) Trigger Pull	2.45	2.37	2.54	2.50	2.48	2/21/91	JK
	C) Function						2-22-91	AC
660	Pack						3-10-91	NF

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# + .50#

3.00# + .75#

4.00# + 1.00#

SERIAL NO C6611418DATE 2/19/91TESTER JPL

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.53	2.22	2.46	2.45	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.22	2.45	2.36	2.37	
PULL #3	2.25	2.49	2.48	2.54	
PULL #4	2.21	2.49	2.49	2.50	
PULL #5	2.41	2.46	2.45	2.48	
TOTAL					
AVG.					

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.27	3.37		
PULL #2	3.34	3.25		
PULL #3	3.48	3.36		
PULL #4	3.32	3.37		
PULL #5	3.50	3.45		
TOTAL				
AVG.				

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.50	4.11		4.47
PULL #2	4.46	4.39		4.34
PULL #3	4.50	4.43		4.42
PULL #4	4.44	4.47		4.40
PULL #5	4.30	4.47		4.44
TOTAL				
AVG.				

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6611418
21 Feb 1991

CENTROIDAL DISTANCES

0 TO	1	.55185
1 TO	2	.617537
1 TO	3	.308131
1 TO	4	.209404
1 TO	5	.718727

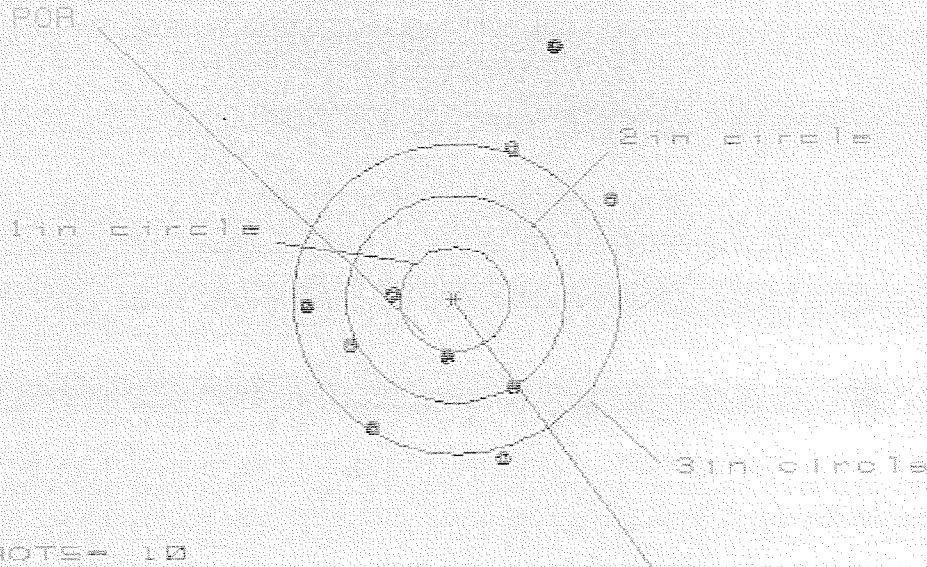
34
58 ←---FOR

THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.0254
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .2254
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .226827
THE RMS FOR THIS RIFLE IS: 1.117

28 Feb 1981

FILE:/PATTERNING/CENTERFIRE_PATT/C6611418

CENTERFIRE PATTERNS # 1



OF SHOTS= 10

IN CIR

1 in = 0

2 in = 3

3 in = 5

HS= 2.785

VS= 4.018

GS= 4.102

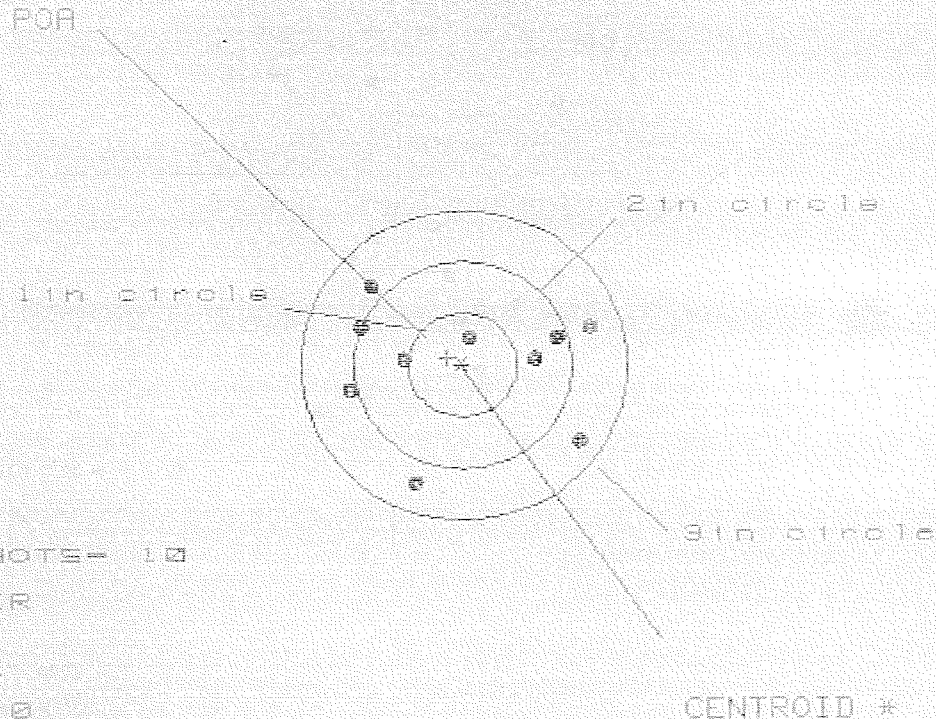
CENTROID #

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.441	1.542	.814
MINIMUM X	-1.344	-1.243	-1.050
MAXIMUM Y	2.431	1.700	1.851
MINIMUM Y	-1.587	-1.317	-1.167
CENTROID X	.073	-.028	-.221
CENTROID Y	.547	.277	.127
POI TO CENTROID IN.	.552	.278	.254
MIN RADIUS	.540	.311	.271
MEAN RADIUS	1.355	1.141	.986
MAX RADIUS	2.596	1.956	2.021
HORIZONTAL SPREAD	2.785	2.785	1.864
VERTICAL SPREAD	4.018	3.017	3.017
EXTREME SPREAD	4.102	3.170	3.030
NUMBER IN ONE INCH CIRCLE =	0		
NUMBER IN TWO INCH CIRCLE =	3		
NUMBER IN THREE INCH CIRCLE =	5		

20 Feb 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6B11418

CENTERFIRE PATTERNS # 2



OF SHOTS= 10

IN CIR

1 in = 1

2 in = 4

3 in = 10

HS= 2.197

VS= 1.936

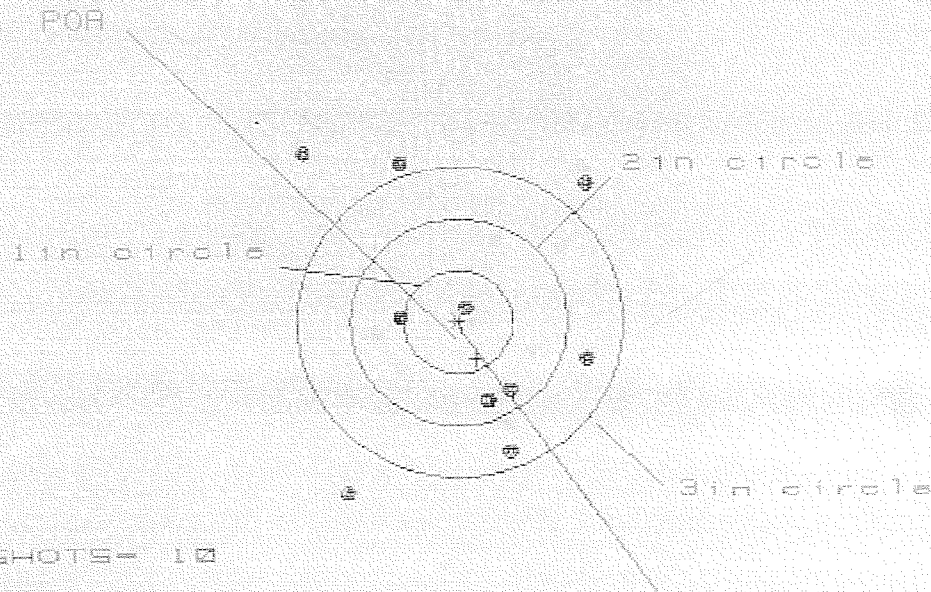
GS= 2.347

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.127	1.241	1.206
MINIMUM X	-1.070	-.956	-.991
MAXIMUM Y	.763	.686	.530
MINIMUM Y	-1.173	-1.250	-.486
CENTROID X	.139	.025	.060
CENTROID Y	-.067	.010	.166
POA TO CENTROID (in.)	.155	.027	.176
MIN RADIUS	.299	.206	.168
MEAN RADIUS	.928	.877	.800
MAX RADIUS	1.240	1.200	1.211
HORIZONTAL SPREAD	2.197	2.197	2.197
VERTICAL SPREAD	1.936	1.936	1.016
EXTREME SPREAD	2.347	2.275	2.275
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	4		
NUMBER IN THREE INCH CIRCLE =	10		

20 Feb 1993

FILE:/PATTERNING/CENTERFIRE_PATT/CGB11418

CENTERFIRE PATTERNS # 3



OF SHOTS= 10

IN CIR

1in = 1

2in = 4

3in = 6

HS= 2.558

VS= 3.227

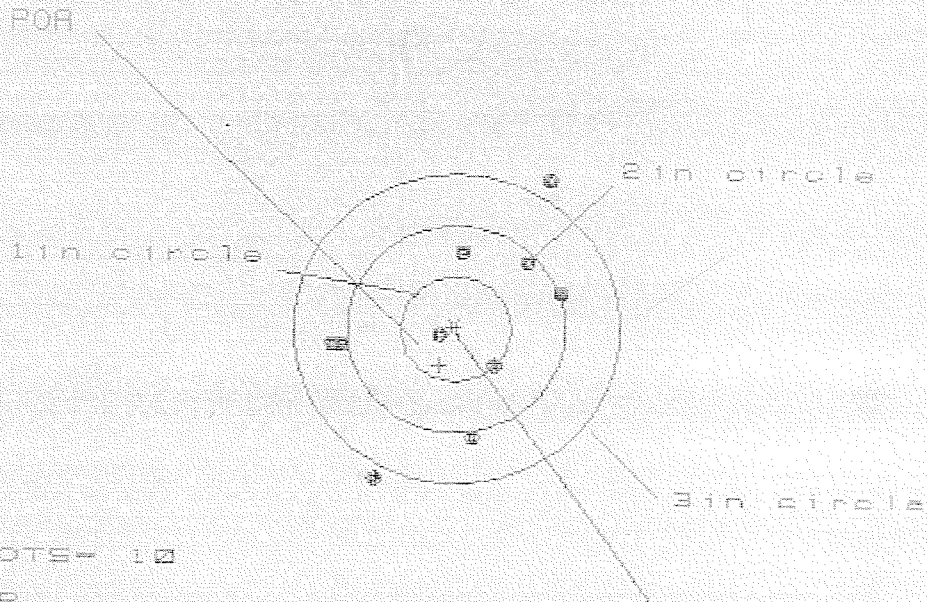
GS= 3.717

PATTERN #	1	3	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.177	1.020	.868
MINIMUM X	-1.421	-1.216	-.842
MAXIMUM Y	1.599	1.711	1.529
MINIMUM Y	-1.628	-1.450	-1.286
CENTROID X	-.168	-.010	.142
CENTROID Y	.355	.177	.359
POA TO CENTROID (in)	.393	.178	.386
MIN RADIUS	.179	.346	.277
MEAN RADIUS	1.235	1.104	1.013
MAX RADIUS	2.139	1.893	1.746
HORIZONTAL SPREAD	2.598	2.236	1.710
VERTICAL SPREAD	3.227	3.161	2.815
EXTREME SPREAD	3.717	3.717	2.990
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	4		
NUMBER IN THREE INCH CIRCLE =	6		

28 Feb 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6611418

CENTERFIRE PATTERNS # 4



OF SHOTS= 10

IN CIR

1in = 2

2in = 4

3in = 6

HS= 2.122

VS= 2.844

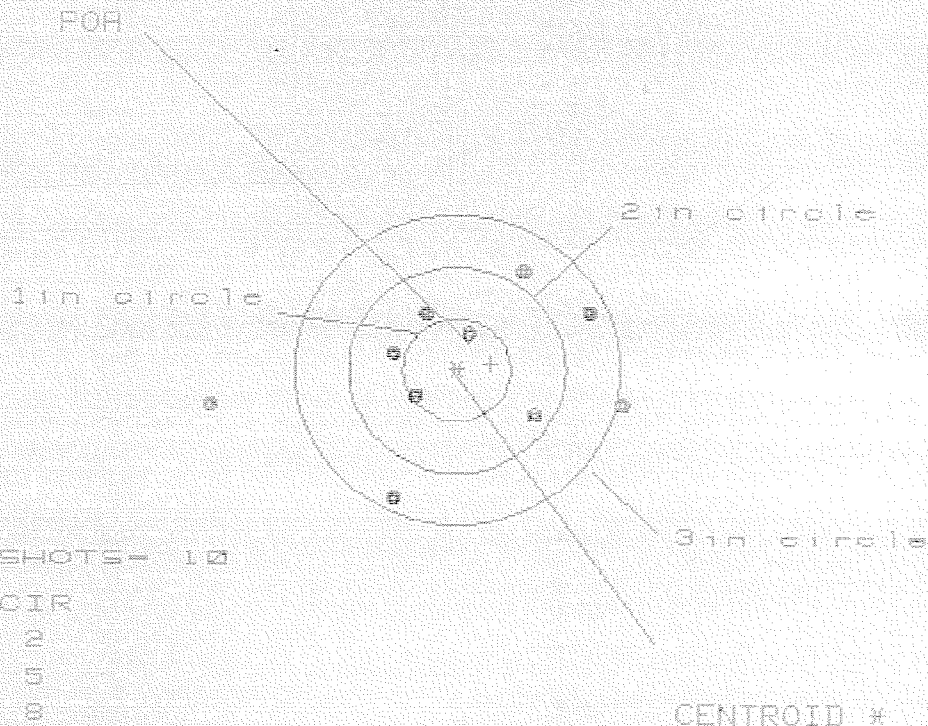
CS= 3.363

CENTROID #

PATTERN #	1	4	9	8
SHOTS (BEST OF)	10	9	8	
MAXIMUM X	1.999	1.095	1.012	
MINIMUM X	-1.123	-1.027	-1.110	
MAXIMUM Y	1.459	.924	.759	
MINIMUM Y	-1.485	-1.323	-1.009	
CENTROID X	.144	.048	.131	
CENTROID Y	.350	.188	.353	
POA TO CENTROID in.	.378	.194	.376	
MIN RADIUS	.211	.116	.201	
MEAN RADIUS	1.002	.911	.831	
MAX RADIUS	1.697	1.479	1.121	
HORIZONTAL SPREAD	2.122	2.122	2.122	
VERTICAL SPREAD	2.944	2.247	1.768	
EXTREME SPREAD	3.363	2.574	2.177	
NUMBER IN ONE INCH CIRCLE =		2		
NUMBER IN TWO INCH CIRCLE =		4		
NUMBER IN THREE INCH CIRCLE =		8		

CENTERFIRE PATTERNS

Figure 1 is a schematic diagram of the experimental setup. It shows a subject sitting at a desk, interacting with a computer monitor. The monitor displays a 'Stimulus' area with a 'Start' button (a green circle) and a 'Response' area (a yellow rectangle). A 'Response' box is also shown below the monitor. A legend indicates that the 'Start' button is a green circle, the 'Stop' button is a red circle, and the 'Response' box is a yellow rectangle.



+ OF SHOTS = 10

INDEX

17-2

217-5

$$\mathbb{E}[\ln] = \frac{1}{2}$$

The figure shows a schematic of the experimental setup. On the left, a person is seated at a desk, looking at a computer monitor. The monitor displays a 3D graphical user interface (GUI) of a mechanical system. The GUI includes a 3D model of a spring-mass system, a numerical display for the spring constant k , and a numerical display for the mass m . The person is interacting with the GUI using a mouse. The text 'Spring constant' and 'Mass' are visible on the screen. The person is also holding a control device, possibly a joystick or a specialized mouse, which is connected to the computer. The overall setup is designed for a human-in-the-loop control experiment.

Figure 1. Schematic representation of the proposed model for the formation of the β -phase in the α -phase of the Ti-6Al-4V alloy. The α -phase is represented by a hexagonal lattice of atoms, and the β -phase by a body-centered cubic lattice of atoms. The β -phase is formed by the transformation of the α -phase, and the transformation is controlled by the presence of the β -phase nucleating agent.

3.729

PATTERN #		10	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.476	1.225	1.137
MINIMUM X	:	-2.253	-.883	-.730
MAXIMUM Y	:	.983	.941	.893
MINIMUM Y	:	-1.201	-1.243	-1.291
CENTROID X	:	-.315	-.064	-.217
CENTROID Y	:	-.058	-.016	.032
POA TO CENTROID in.	:	.320	.066	.220
MIN RADIUS	:	.386	.336	.272
MEAN RADIUS	:	1.066	.922	.848
MAX RADIUS	:	2.285	1.509	1.470
HORIZONTAL SPREAD	:	3.729	2.108	1.869
VERTICAL SPREAD	:	2.184	2.184	2.184
EXTREME SPREAD	:	3.729	2.517	2.517
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		8	