VICTORIA, TO WIT.	on h oath saith, I am a	
• Christian and Surname in	residing at	
full.		
	powder to gauge - I do not see that it is necessary	
	one the better for being Kynoch's machine they had a blow	
	ttle while ago - the object is to ram the powder to gauge.	
	line we use is not so quick as this - I never used this	94
machine.	(Showing medium working) I daresay if Lepractised with it	
Frebuld	do a thousand an hour . The last the rest of the last the	it,
You did six i	n Tifteen seconds ? I have not been used to it . With a	
buffer t	here you would prevent that end touching the guider, but	
the cent	re wight be made longer :	
AND THE PARTY OF T	ed a similar machine for wears and the War Office also; if	
they hav	e found it efficient and proper would you set up your ex-	
perience	against theirs ? No. I have had no experience of that	
machino	- I would not have it in the place. I have had 25 years	S
experien	de in my Pather's shop my father has nothing to do with	
the work	part. I picked up my experience in the shop in Bourke	
Street.	and I read a bit also . All I have gained has been under	
my fathe	r in his employment, and using his wits. The machine we	*
	ur shop we imported from England - Erskine's people make	
	the machines in England for the private trade. I have	
	Greenwood and Battley; they are the largest makers of ammur	1-
	chinery in theUnited Kingdom . The design we use is Erskine	
	mathing like the trays that the Colonial Ammunition Com-	
	The cartridges instead of being placed in the top of	
	placed underneath, and they fit into the hole exactly.	
	in IOO at a time from the bottom tyou put the guide on and	
	over so that the top comes up and the guide keeps them	
	ling out. The cartridge shell fits this hole exactly- it	
	ut in from the top. Then you put your powder in and you	
Taken and Sworn		
f	_ 189 at	
	Coroner.	

		This Deponent *	
VICTORIA, TO WIT.	on h	oath saith, I am a	
Christian and	residing	at	

woard that soes on turn your paper down and you have a top of a wooden shelp; it is all wood. Zoostarike has four rammers and you do four at once. We do the filling and the ramming at the sametime and in the same place. Our trade is small as compared with a factory - we do not make military ammunition, only sporting - I cannot say how many we fill a month - take the year, about 700,000 or 800,000 a year - men do the work at our machine. On the average there are two men working in the room four in the busy time - we keep two machines going there in the busy times. We have about 5 lbs of powder within reach of each machine, not open - it is in sealed cans containing 5 lbs - no loose powder at all. When a man starts his work he opens a sealed can - he fills from a can , pours out as much as he wants into a copper tinof I lb - it is a bowl shape - it has no nozzle - he spills it into the top of the tray. The powder is poured into the tray - you cut it off and it falls into the shells. In the spaces between the cartridges there is no loose powder. I have never been inside a cartridge manufactory. When I describe our process I describe the process used by us in our own particular sporting business, and it is usual in the trade in Melbourne and anywhere else bar a cartridge factory. I have never been Home to England, but I know the process kx there - it is just the same.

October	1897 at Foot	gerav .	
			(
	1	-1	
	1 CM	nd ly	
			Coroner.

J.W.Rosier Jr.

Vromonri mo man	This Deponent * Captain Richard Harding			
VICTORIA, TO WIT.	on h	oath saith, I am a		
• Christian and	residing	at		

- To Mr Box I hold the Commission of Captain in the Defence Force of
 Victoria, specially mechanical engineering. I have been at that
 about fourteen years in the Defence Department 26 years at
 mechanical engineering. I know pressing machines generally, and
 generally the operations required in making ammunition. I have
 examined this filling machine it has been used for pressing blank cartridges I should say it is not the object it was made
 for it would be hard to tell what it was made for. With the
 small amount of work required to press cartridges this machine
 is out of all proportion, that is in force. The whole machine is
 altogether out of proportion to the work required. I am designer,
 draftsman and engineer I can design a machine to do the work
 required.
- Mr Bryant asked whether gentlemen with no experience in cartridge manufacturing should give evidence about machines of which they have no knowledge.
- The Coroner They could take his evidence for what it was worth. If he has not had experience of these particular machines he could give certain principles he is not an expert in that sense.
- To Mr Box As to a person using that machine as it stands to day, I think it is a very defective pieceof work in every way it is crude in design and dangerous. As Mr Rosier pointed out, this collar striking the metal and the striking this small bracket is in itself a very dangerous thing it requires a washer in between and it should also have a limit of forward strike.

 This collar is adjustable it should be so made that it should be adjustable to certain lengths but only to a certain distance forward. This bracket has nothing to do with the length of the

Sworn before me the	day
189 at	
	Coroner.

stroke

		This Deponent *
VICTORIA, TO WIT.	on h	oath saith, I am a

• Christian and Surname in full. residing at_____

stroke - that should be decided by this stop here. That is made here to assist the operator to lay the cartridges into the hole, and for this due to touch the bracket is a most ser-Ious defect in the construction of the machine . If an operator takes the length of the lever and puts a 20 lb pressure on there It means 5 lbs to overcome the resistance of the spring - that means I5 lbs effective here, that would give 60 lbs on the bracket. A blow should never come on that bracket - the stroke should be decided by this collar here, and it should have a leather washer in between to prevent unnecessary friction at this point. This bracket should have nothing to do and should not touch that other bracket. The system of applying the spring is defective. No person designing a machine would ever think of putting the spring in such a position, not to have a direct pull. Here it has been by some person tied roughly round a set screw, so this is all in friction here. Every person designing machinery for powder should reduce friction of promiminent points like this. No person acquainted with machinery of this nature would think of fixing it up with old boltslike these - very rough: every part should be so made that the powder or grit or powder dust would not come to parts where it would stick - it should be so made that it would go away. Instead of that everything seems to be designed to catch the powder. Say the operator put the case in here and pressed it down and attention is called away - it catches the piston and she keeps on bulling it would throw this cartridge out and throw the powderbut. The resistance would be taken away from here and it would strike here a very severe blow - it would strike with a quick smack that would be covered with powder at the time of spilling,

Taken	and Sworn before me the	day
of	189 at	
19		Coroner.

whereas

	This Deponent *	
VICTORIA, TO WIT.	on h oath saith, I am a	
Christian and	residing at	

whereas if the bracket were removed further away and the strain came on the washer at the other end there would be very little dauger, Generally, all the fittings are put in such a manner that it catches the powder and there is this immense lever to do nothing really, because the operation of the machine is really 2 or 3 lbs _ to place the powder in here . I do not believe the person designed the machine in a horizontal manner - it should be vertical. Why should a man take a cartridge with powder in this way, horizontally - it should come in a natural manner pointing upwards . I heard it stated that Kynoch made the machine - I doubt if he made it to do the work. If he made it he is ashamed to put his name on it. The cartridge has a bit of paper in it when turned out. If you turn it up like that to put it in the machine certain particules of the machine must drop out at times. In any case the powder falls and takes up whatever space there happens to be here, whereas if it were in a natural position the powder settles in it - you cannot have a big blow on it because it would break the grain of the powder. If a girl does I,000 an hour the blow that she would necessarily deliver would be suntly with a hussure here would give 4 lbs on the end of the plunger - 5 lbs to overcome the resistance of the spring , and it would still give 4 lbs here which you do not require to do the work required. This thing is made in such a manner that a girl working and not really understanding the affair would to some extent put her weight on , which retards the blow. You can see how much it is worn in the plunger, due to the unnatural weight w put on the machine instead of directly along in the line of the work to be done. As to how it is fastened on the bench everything is against it I should say for its use .

As

		This Deponent *	
VICTORIA, TO WIT.	on h	oath saith, I am a	
• Christian and	residing	at	

As to its use it is a very dangerous machine for anyone to use.

The blow here alone is a most serious thing. That metal should never come in contact with the metal at that point (the bracket)

That alone would condemn the machine even if it were under good mechanical supervision. If a person put IO lbs on it to close it the delivery would be 20 lbs at the piston - that is the ratio all along; it is four to one - that is giving every favour to the machine. **Description** I see no indication of **Entropy the girl was in the habit of putting her hand on the bar. If you design a machine for a certain piece of work you suppose it must be used at the end of the handle, otherwise your design is faulty, because you could have **The machine** a half or a quarter the size and the lever in proportion. If the girl took it low down on the handle, then that shows the thing is out of fair design.

To Mr Bryant - My business is engineer. I am Inspector of Ordnance machinery in the Government employment. I served an apprenticeship to mechanical engineering - it is not usual to give certificates for that. I have been 26 years in the Government employment - before I joined the Government service I was a lad. As an engineer I study and look up engineering works. As far as my practical experience extends I have gained it in the Government service.

My duties are to inspect all the machinery connected with the Defence Department; gunnery of all sorts - breech loading guns, the disappearing gun, quick firing , small arms, Maxims, Nordenfeldts - I can take any of those to pieces or make them. If anything goes wrong with the Maxim gun I am called in to say how it should be repaired. I have men under me who can carry out the work, but I could do it myself. Assuming there is a machine gun on board the

	Taken and Swern before methe trianbains worlday	AXXEREXXXEMMEXXXEEXXXEEXXXX
of	189 at	
	Coroner.	

VICTORIA, TO WIT.

On h oath saith, I am a______

• Christian and Surname in residing at_____

Nelson and while it is being worked a defect is found so that it will not do its work, the defect is remedied by those on board - by those who have received instructions from me to do it . If they cannot do it the gun is put out of action - I am not sent for, I am informed of it . I go down on board the Nelson or they may send the gun to my shop. I then overhaul it. I have no machine like that filling machine - in/Government Department they do not make small arms cartridges. I have seen the Colonial Ammunition factory, but no other. They had some filling machines at the Victoria barracks at one time - I should say it must be ten years ago - they were filling ball cartridges there - they were making up the cartridges - they would have about a dozen machines . They were used simply for putting the powderin and pressing it down and putting the wads in and making up the cartridges in the usual manner that was all being done by the Defence Department. I had nothing to do with that , but my head quarters were at the barracks . Probably the machines were made of the same material as this . I would not like to say they were of similar design. It is a long while ago and I had nothing to do with the operation. With the exception of those machines I have seen sporting ammunition. I could not recognize this machine as one that was ever in the barracks . I have had quite enough to do to carry out my own work, and it did not come under my notice. I cannot say whether that machine was ever in the Victoria barracks. I would not be surprised to hear it is a machine manufactured by Kynoch and sold by the Government to the Ammunition g factory - the Government did not purchase that under my instructions. When those machines were at the Victoria barracks I do not know who was in control of them. All I can say is that

Taken ar	d Sworn before	me the	day
of	189	at	
			Coroner.

		This Deponent *	
VICTORIA, TO WIT.			
	on h	oath saith, I am a	

• Christian and Surname in full. residing at_____

(my superior officer) Colonel Cairneross is in control of the Stores and I suppose xhex would be under his control during the time it was worked there if it was . As far as I know there was never any accident - at any rate there was no inquest. I do not know how long the machine has been at work at the factory here. As far as my criticism of the machine is concerned I have practical knowledge of the work required. Except at the Victoria barracks I have never seen one of those machines, only the sporting. I have never superintended the construction of any and have never given any special study to the manufacture of small arm cartridge machinery. I have never, except at the cartridge factory here, inspected the machinery of any factory elsewhere. Assuming I am a fair minded man I would venture to set up my experience, my non-practical experience and my theoretical experience as against that of Kynock and as against those who have made a special study of cartridge manufacture. I have no idea how long Kynochs have been manufacturing in Great Britain. I know the firm - I cannot say they are the largest manufacturers in Great Britain - I know it is a fairly large firm.

he naturally wants to know the work required ,and I make my assumption on that. To press a little paper in a case ,the work required for that would not be so much the whole of the construction of the machine follows is simply as a matter of a calculation—

you would have to consider speed and so on. In other respects there is no special knowledge required to make a machine of that sort. I say if Kynoch fitted those parts on he is very wrong, and if he says the blow on that little bracket should be there I differ from him very distinctly ,no matter who he is.

capt.

	Taken and Swor	n before me the	day\	
of	October	189 7 at Footscray	R.Har	dir
		Cand Cy	roner.	

This Deponent *	FRANCIS SAVAGE
on his oath saith, I am a_	
residing at	

• Christian and Surname in

VICTORIA, TO WIT.

To Mr. Box - I produce a copy of a letter from the Defence Department dated 13th. June 1894 (exhibit "J") to the Manager of the Colonial Ammunition Company. I also produce a reply to it (Exhibit "K") dated 18th. July 1894 from Captain Whitney to Commander Colling, Defence Department. There was a reference to Colonel Harman, London He is the military adviser for the Government here and the other colonies. He made a report through the Agent General and a copy of that report was sent to Captain Whitney. The Department of Defence received from Colonel Harman a report a copy of which was sent to Captain Whitney. I have charge of the papers connected with the De fence Department. Colonel Gollins has made an estimate of the ammunition rejected from the Colonial Ammunition Company . All the papers connected with the rejected cartridges are in court. Colonel Cairncross is ill and cannot be here to-day. There are no other box papers in the Defence Department as to the use of sifted powder that have been communicated to the Ammunition Company other than those you have read. Copies of those you have read were sent to Cap tain Whitney.

To Mr. Bryant - As to a lot of Kynoch's ball cartridges that the Govern ment had in stock they were converted into blank by the Defence Department in 1896. I can only tell what the correspondence discloses. I have no personal knowledge as to the cartridges. All I can say is that I understand that the conversion of ball into blank is a legitimate operation and that the Defence Department accepted

Capta Taken an	in Whitney's offer de Sworn before me the	to do it. As a matter of	of fact I cannot say
of	189 at		
- 07			
a-63		Coroner.	that

T/rements me www			
VICTORIA, TO WIT.	on h	oath saith, I am a	
• Christian and	residing	at	

• Christian and Surname in full.

correspondence referred to between the department and Cap enclosing tain Whitney including Colonel Harman's report

tridges supplied by the factory to the department contained powder formerly taken from broken cartridges. I cannot tell how many millions of rounds have been supplied to the department since the factory started. I think you might count it at a million a year. The outside quantity has been one and a half millions a year. One and a half millions is the limit now. Probably 15,000,000 cartridges have been supplied since the factory was started.

(Signed) F. Savage.

Taken and Sworn before me the Twenty-eighth ____ 189 7 at Footscray. of October

CORONER'S INQUEST.

This Deponent* THOMAS Harrington SMITH
VICTORIA, TO WIT. on h is oath saith, I am a
• Christian and residing at
To Mr. Box - I am draftsman and assistant surveyor in the Ports and Har
bours Department. I made a survey of the explosion at the works. I
took the measurements to make that plan, That plan as I describe
it now is correct. That opening is a portion of the floor destroy-
ed by the force of the explosion. The timber was broken up and s-
splintered, the joists of the floor and the flooring boards. The
walls were in some cases forced into the ground and in the outside
they were leaning outward. The wall was blown out just where I in-
dicate. The next length of wall was left standing. At On the north
side at the western end the wall was blown out, piles leaning out-
wards. Then the adjoining length of wall was left standing. That
is as I found it on the Wednesday after the occurrence. The scale
is 5 ft. to the inch. That is the north side of the roof that was
knocked off, weight 2,050 lbs. on the other side. This corner of r
roof broken having probably pitched on ground first. That corner
came down first. As to No. 2 the roof was bulged in there. The tim
ber supporting the iron was broken and the iron bulged right in. I
could not say how that happened: I suppose it was from flying de-
bris. That cross-section shows the partition still standing. It is
7 ft. high. The walls are about 11ft. high and the partition went
up 7 ft. The studs of the building are made of Oregon timber and
the other of ed ordinary match boarding. The floor was made with
iron brads in the ordinary way. I did not notice that the heads
were exposed. I cannot say it was secret nailed. That shows the di-
rection the trolly way goes as I indicate now. (whibit d'S')
To Mr. Bryant - I have the weight marked on each of the two parts of Taken and Sworn before me the day
of189 at
Coroner.) the
79

[No. 53.

CORONER'S INQUEST.

VICTORIA, TO WIT.		This Deponent *
		on h oath saith, I am a
• Christian Surnan full.	ne me	esiding ateasured the timber on the roofs and calculated it from
	recognised fo	ormulae laid down by the authorities. I took the thick-
		galvanised iron. It is quite likely if you say so that
	the roofs we	eigh about 1,750 lbs. achual. The bulge in the roof ap-
	peared to be	done by some external violence. It may have been from
	the corner of	f the roof that was broken: it is difficult to say.
		(Signed) Thomas Harrington Smith.

of October 189% at How Lacray

Coroner.

	This Deponent* AMELIAREUTER	
ICTORIA, TO WIT.	on her oath saith, I am a	
ristian and	residing at	

To Mr. Box - I am forewoman at the Colonial Ammunition Factory. I have been working there is six years. I have been forewoman twelve month A Miss Birkle preceded me as forewoman. She is not in the factory now. I had the supervision of the rooms No. 1 and the powder room, also the laboratory. The three girls killed were working in No. 1 room on that day. The day before the accident no one but Christina Jones was acting as powder girl. She had been acting as that for three or four weeks and no one else. The wages book shows that sho shortly previous to this accident she was sifting powder in the la boratory. My sister Miss Ada Reuter was helping her at that. She was sifting powder drawn from paper blank, none from Martini-Henry cases. She has never done any of that. We have drawn the powder in No.1 filling room. That is where I generally drew it. We simply lift ed the paper from the top and opened them. It was paper blank, not brass cartridges at all. I have opened blank brass cartridges in the sporting room before the accident. I opened some two or three weeks before. In the fortnight before the accident there were not thousands opened in the partitioned part: I should say 300 or 400 at most. She got the powder from the paper blank. I should think there were about 30,000 paper blank opened and that was the powder she was sifting. I did not know it was a dnagerous proceeding open ing paper blank if it was looked after properly. I have read the re gulations. When I first took the filling room I read some of them. I have read them at odd times now and again. Captain Whitney knew we were opening cartridges in the No. 1 room. I saw the regulation in

	Taken and	Sworn before me the	day
of_		189 at	
12			
			Coroner.

VICTORIA, TO WIT.	This Deponent * on h oath saith, I am a
Christian and Surname in full.	residing at
No. 1 room.I	expect the girls saw it. I never called their atten-
tion to it. I	never called the girls' attention to the regulations

of the factory. There were two copies of the regulations in the pow der house and one in No. 1 room. I cannot say whereabouts it was. I THE THE PARTY OF T believe it was the first time I heard the regulations you read at the previous sitting. My attention was never called as to the regulations between the Crown and Captain Whitney. I never worked in a factory of this sort before . I have heard that the powder house was a "danger" building and the breaking up room. I mean by "breaking up" breaking up the brass after the powder is extracted. There is no danger if the powder is not there. There is no danger in opening cartridges. It is a mere matter of amount. Captain Whitney never told me that in theremoval of powder from cartridges once us-The second secon ed there was danger. I was not told that the fulminative caps might get into the powder. I never heard of such a thing. They sieve powder to get the pieces of paper and wax out. I have never seen and any grit. I have seen the sifted powder there. I have never seen any bits of steel.. I do not know what you mean by "fulminate". I know it is in the cap and what the effect is if struck. We have a girl specially to clear the quantity of powder obtained by the drawing of cartridges, Miss Grant . She is not here and has not been at this inquiry at all. She generally does the bulleting in No. 1 room She had there or four different operations. When she was clearing the powder out from No.1 she always did it and I always looked after

her. That pape Taken and Sworn before	r box (produced)f	ull was	the	limit	of	powder	eve
189	at						
		}					
	her. That pape Taken and Sworn before	and Sworn before me the	day	day	day	day	- uay

74

kept

Coroner.

This Deponent *			
oath saith. I am a			

VICTORIA, TO WIT.

on h

residing at surname in the partitioned part. I have never seen it exceeded. There · Christian and was no loose powder in the place when it blew up. It is all loose powder till it is crimped. The paper is the wad in the blank cartridge. It is covered when the paper is turned down. I say that a cartridge is as safe with the paper turned down as with a wad on it. That is the practice of the factory. I took the loose powder out of the partition in No. 1 . We were not doing any of that in the week before the accident. We last opened cartridges in that room two or three months back. I had opened cartridges in part of that room where the girls were working in No. 1 room. packing it into a box and then taking the box into the partition part. There would be always a certain quantity of loose powder in No. 1.I have drawn sporting cartridges in the partitioned place, not in No. 1 room it self. Miss Mc Leod had been pressing cartridges on the Wednesday. I have no idea how many. I removed some out of the room the day before, I should think about half a barrel. I removed some between Eleven and Twelve. She did not go on pressing all the afterboon. She was turning in as well. I did not empty the barrel on the night of the Wednesday. I do not think there were any in the barrel on the morning of Wednesday when she began. There would be a fresh barrel put there in the morning. I do not know whether there were any car tridges in the barrel on the Wednesday evening, there may have been She went to work on the Thursday morning pressing cartridges. The powder used in those cartridges was not the ordinary blank powder. I mean the blank powder as delivered from the magazine. I cannot

Taker	and Sworn before	me the_	day
of	189	at	
76			Coroner

say

could

CORONER'S INQUEST.

	This Deponent *
VICTOR	on h oath saith, I am a
Christian Surname	residing at
full.	say whether it was "R. F. G. " No. 2. If it was not it was not sift
	ed powder, I am sure of that. I do not know what it was but was pow-
	der given to me by Mr. Anderson for blank. It was not new blank. Id
	do not know what other powder there is other than the three kinds
	mentioned. It was not sifted powder but I do not know what it was.
	I know I had never sifted it. It is easy to see the difference be-
	tween blank powder and sifted and between blank powder and "R
	G. 2.".Miss Jones got the powder and was loading the cartridges
	and would therefore know what powder was running into the cart-
	ridge. If she says it was sifted powder I know it was not. I do not
	know what it was .I only know what it was given to me for. There
	were no cartridges in that room containing sifted powder as far as
	I know on the day of the accident. The cartridges in the room were
	ball, between 30,000 and 35,000 and blank 2,000 to 3,000. That is
	blank not crimped. There would be cartridges under the bench in a
	barrel below under the machine about 400 to 500. She was not stea-
	dily on that work for an hour. No cartridges had been removed out
	of the barrel that morning. We never keep more than about 1,500 at
	the most that I have seen in that barrel. There was no regulation
	as to the quantity there. There were some sporting cases in that
	room. Some had powder and some had not. I have no idea how many had
	Two hundred of smokeless powder and about 300 blank powder, that is
	finished cartridges. In the middle of the room there were also un-
	choked cartridges, one barrel, about 2,000. From my knowledge there
Т	were no cartridges in that room that contained sifted powder. They Taken and Sworn before me theday\
of	189 at

Coroner.

, 78

[No. 53.

CORONER'S INQUEST.

		This Deponent *		
VICTORIA, TO WIT.				
VICTORIA, 10 WILL.	on h	oath saith, I am a		
Christian and	rosiding	r at		

• Christian and Surname in

> could not be there without my knowledge. As far as I know all the cartridges in the room did not go off. If we used sifted powder we should work them through that room. About a day and a half before the accident we had been using sifted powder putting it into blank cartridges.. Before the accident we had removed all those cartridges. If there were 300 rounds found afterwards sontaining sifted powder not exploded I cannot account for it. I cannot say how many pounds of powder whre in the room before the explosion. Prior to the accident we had no cartridge cases in which the powder had been exploded. If they were found there after the explosion the probability is they exploded when they went off at that time. I never imstructed any of the girls to wear prepared shoes in that No. 1 room. The only place where they were worn was in the laboratory and the powder house. I never warned the girls about taking matches into the room. I never had them searched or told them they must not take matches. In the factory the girls did not get tea. They bring their own tea and get the water in the main factory. They did not bring their tea into No. 1 room. They did not wad in the No.1 room except in the sporting department. To get there the cartridges would be carried through the whole length of the room from the pow der house. While they were passing through the room they were unpcovered. I never knew a girl dropping any. The po sporting cartridg es were loaded with powder in the powder house, never in that room or in the partitioned part. . No cartridges were ever powdered there

	Taken and Sw	vorn before	me the	da
of		189	at	

This Deponent *

on h

oath saith, I am a_

VICTORIA, TO WIT.

• Christi Surn full.	residing at
	to my knowledge. I kept the powder book in No. 1 room. It was never
	taken from that room to the office. It was to show how much powder
	I received. from Mr. Anderson checks it every month by what he
	brings from the magazines. He comes into the No. 1 room to check it
	The truck from the main building used to be pulled into that room.
	There were cases and bullets on it. The one that came out of the
	factory was the only onethat came into that room. They used to car
	ry the cartridges from the powder house to the partitioned off
	place. The girls were not to wear any special dress in No. 1 room
	Number 1 was sometimes cleared out altogether . I should think it
	was cleared out three or four times before the accident. There were
	no paper cartridges in that room on the morning of the accident to
	my knowledge. We had removed a lot of powder there from the car-
	tridges prior to the accident. Miss Mc Leod was paid for pressing
	cartridges by the piece not daily wage on that. Of course, the more
	she didthe more she earned. I cannot say how much sifted powder has
	been used in the factory during the three months before the acci-
	dent. I do not think anyone can tell that. They came into No. 1
	room with their ordinary boots on. I never heard that the use of
	sifted powder was forbidden. They used it up in the factory. They
	never sifted it except what was drawn out of the old cartridges, as

To Mr. Smith - As to the system of fines, they were fined for talking

Coroner.

81

dar as I know.

running

	This	s Deponent *	
VICTO	ORIA, TO WIT.	saith, I am a	
Christia			
full.	running away because	there was an explosion of	a cartridge. If there
	is a fine I did not k	eep the fine book. It is k	ept in the factory.
	Mr. Anderson has the	charge of it. It would in	dicate correctly all
		en imposed from time to t	
	taken exception to th	e dress of any girl in tha	at room nor examined
	her boots to see if	there was grit on them. I	did not think it my
	duty to do that excep	pt in the powder house whe	ere they wear shoes. I
	have never seen any	loose powder about the flo	oor of No. 1 room.I
	should not think it]	possible. I do not think it	t possible for powder
	to be spilt in small	quantities in that room.	The last time I saw
	Miss Fitzpatrick was	about a minute before the	e accident. On the day
	before the accident	I saw her about closing up	p time, half-past Five
	She was engaged in ca	anneluring. There were some	e cartridges strewn
	about the room. I sho	ould think there were beta	ween 30-and-35-30,000
	and 35,000. There was	plenty of room for her to	o move about and pass
	backwards and forward	ds. There was a wedding to	o which the factory
	girls were invited. I	was a guest. I got away ea	arly on the Wednesday
	sometime after Four.	I see I made a mistake.I	could not have seen
	her at half-past Five	e.My memory is as good as	that all through.I
	have not had a conver	esation with Miss Christin	na Jones subsequently
	to the accident about	the accident. It is my di	uty to oil the pres-
	sing machine. I also	clean it. I did it the day	before the accident.
	I had not read the re	egulations read by Mr. Box	x but I have the othe
	regulations. I never 1	neard that Miss Fitzpatrio	ck had an accident
		shortly before the accide	ent or at any time.
	100	plosion I thought it was a	a report by the cap-
	189 at		

Coroner.

		This Deponent*	
VICTORIA, TO WIT.	on h	oath saith, I am a	
Christian and Surname in	residing	at	

capping machine and I tunked round to see if the girls had stopped the machine as they ought and as I turned, a piece of the glass struck me on the side. I was in No. 2. Then I ran to the laundry be tween No. 2 room and the packing. Then the girls came running out of No. 2 and I saw they all got out and I met Captain Whitney. I do not know what he said as he jumped off the landing. I did the same and I stood there till he called out for water. I ran along then into the factory and when I got there I found there were four or five people getting water. I rushed back again and I got back to the door leading to the filling rooms. I saw Captain Whitney placing Miss Greenham on the landing. I went to the filling rooms again ant stoppd the capping machine. Captain Whitney called out to clear the powder house. I went down then and cleared it . I found there about from four to five pounds of "R. F. G. 2" powder in the powder bin and some empty ball cases and three or four boxes of blank cartridges powdered. That is all. I found no sifted powder in the powder house. The powder I took out of the bins was "R. F. G.2". There was about half a pound of the blank powder that she had been using. I took the powder to the laboratory. There was no sifted pow der there. When I cleared the powder house I put it in the laboratory. I do not know whether it stopped there. I did not put any sift ed powder in the laboratory. If sifted powder was found in the laboratory I cannot tell you how it got there. There is only one shoot

	This Deponent *	This Deponent *				
VICTORIA, TO WIT.	on h oath saith, I am a					
• Christian and Surname in full.	residing at					

were not using one.Only two had anything in.It was all "R. F. G.2" and what we had been using for blank. It was not the ordinary blank powder. It was a powder that was neither blank nor "R. F. G.2." I removed about half a pound of that. They had been using that fer filling ————and put it in the laboratory. That was the last of that powder. There was no more in the laboratory. I got that powder for blank and I did not remove more than half a pound of that. They had been using that for filling blank cartridges the day before. Miss Jones put that powder in the bin. She could get it only from the laboratory.

is one is bright and the other dull. I think it is called "R. F. G. 2"

is one is bright and the other dull. I think it is called "R. F. G.

2. blank"and the other "R. F. G. 2ball". The powder I cleared from the powder house on the day of the accident and the day after was "R. F. G. 2" and the balance half a pound of other powder. The powder was not sifted and not ". R. F. G. 2". It was not the ordinary "R. F. G. 2." blank that we get. It had dust with it. That was the only difference from the ". R. F. G. 2" blank. That was the powder used the day before in powdering the cartridges that were being pressed. I took no sifted powder from the powder house at all and saw none in the laboratory when I took the powder over. I did not look particularly. I was in a hurry and was excited. Captain Whitney told me to clear the powder house to remove any further risk. I was in the No. 2 house when the first explosion occurred. I thought

	Taken and Sworn before me the	day
of	189 at	
		Coroner.

that

	This Deponent*
СТО	on h oath saith, I am a
ristian	LUDIUALIA CONTRACTOR C
ull.	that a cartridge had gone off at the capping machine. It was like
	the explosion of a single cartridge. That was followed by a larger
	explosion in four or five seconds. I turned round towards the cap-
	ping machine to see if it had been stopped. That is the direction
	given to the girls. If a cartridge does go off in the capping ma-
	chine there is no risk. There is a chimney up which the bullet
	goes. I had just time to turn there when a piece of the glass struck
	me. It came through the window. Although the time was short there
	was a distinct interval between the explosion of the one cartridge
	and the bigger explosion. I was through the No. 1 room that morning
	and had given the girls directions what to do. The explosion took
	place about half-past Nine.Before that I had been through the No.1 I had just come from it.
	room. I went there just to see if the girls were doing their work
	right. I had been in there before that morning. I was in and out at
	least a dozen times that morning between twenty minutes to Eight
	and half-past Nine . It is my duty to go round and see that the
	girls are doing their work. No one was at work in the sporting divi
,	sion nor the partitioned part nor the powder house. The three girls
]	killed were the only ones working there. Miss Mc Leod was pressing
	at the pressing machine. Miss Fitzpatrick was canneluring and Miss
100	Greenham bulleting and they had been doing that all the morning.
	The cartridges that Miss Mc Leod was using that morning came from
	the partitioned place next the powder house. Over night Miss Mc
	Leod had been doing the turning down. During the afternoon of Wednesd
	the was huming down and algo pressing. The supply she got
	189 at

Coroner.

This Deponent* VICTORIA, TO WIT. oath saith, I am a_ on h residing at

· Christian and Surname in

> to work on on the morning of the accident. were what she had turned down the night before and then she turned down some more and started pressing again that morning. She would turn down three or four boxes of 100 to 120 before pressing . At most there would be 300 or 400 rounds in that room turned down and pressed. Some cartridges had come from the powder house that morning to the partitioned off part. Miss Mc Leod had taken them there. Miss Jones would give them to her. She would not go into the powder house unless she put her shoes on. I can understand that regulation thoroughly. About carrying the matches and lights, there are regulationsabout that posted about the place and a big notice outside the main door of the factory. They all come through that gate. They are bound to see it and everybody knows it. The sifting powder is drawn from the pp paper blank cartridges drawn. There is a difference between drawing the powder and breaking up a cartridge. There is no danger in the case of the brass cartridges, in breaking them up if all the powder is taken out. If some is left in it would be dangerous. It is done with great care and the work is checked before being sent away. The cartridge cases are examined before they are removed. The work is constantly passing through different hands and so gets examined and from that fact very great care is exercised. In the sporting part of No. Iroom brass cases have been opened and the powder drawn. That was done last before the accident about two or three weeks and then only 200 or 300 were drawn. The cases were

Taken an	d Sworn before me the	day
of	189 at	
		Coroner.

left

	This Deponent*					
VICTORIA, TO WIT.	on h	oath	saith, I am a			
Christian and Surname in	residing	at				

· Christian and Surname in

> left in the sporting room. In addition to those in the room there were sporting cases in that room, about 10,000 empty. There were some blank also in the sporting reemplace crimped, finished, 8,000 to 9,000. There were also some old sporting cases empty, I cannot say low many, old cases that had been filled once. , about 2,500, a barrel. There were also some heads of cartridges, about 5,000 with the caps in. I think there would be more than that. I should say about 30,000 completed ball cartridges, 2,000 to 3,000 blank cartriages not crimped with the powder down at the pressing rachine. Then 4,000 to 5,000 were under the bench where Miss Mc Leod was working. In addition to those there were 18,000 new brass cases unfilled. There were no paper cases unfilled. In the other room. the partitioned off part near the powder house they were all turned down and not more than three boxes containing each 100 to 120. They had been completed in that room. The capping was the last t thing done. The 30 to 40 bell certridges in that room were some ea capped and some uncapped. I cannot say the proportion of each. When a ball cartridge is capped it is completed, all except examination. When a ball cartridge not capped is next dealt with it is capped and then it is complete. As a matter of fact canneluring is done after capping as well as before. There were capped and uncapped ball cartridges in the room because we had been working up the hand capping. Miss Fitxpatrick was cannelubing no uncapped ones. In the ordinary course of events the capped ball cartridges were beig Takened Swer before me themining room, the day artition off No. 2 filling

boom. I had oiled the machine the day before the accident. I had not

Coroner.

This Deponent *_

VICTORIA, TO WIT. on h oath saith, I am a
* Christian and Surname in full. Worked that machine myself except showing a girl how to work it. It
is in the same order now as it has been since I have been there.
To my knowledge there has never been an explosion with that ma-
chine before and it has been in use the six years I have been there
I cannot say how many millions of cartridges have passed through
it. Captain Whitney knew I was opening catrcartridges in No. 1:
that was two or three months back. That was when we opened the
30,000 Describing the process of opening a blank cartridge, I open
the top and pull the paper out and shake it into a box . The pa-
per goes into one barrel and the case in another. Five to six car-
tridges would about fill this little box. It is never filled right
up. When it is about full it is taken to the partitioned place and
put into a larger box and then it goes back to the No. 1 room.No
one else is in the partitioned room at that time and someone is
assisting her in the No. 1 room. Each would have a little box of
that kind in front of her . The larger box in the partitioned roo
would hold three or four pounds. When that is reasonably full it
is taken down to the powder house. As a matter of fact when the dr
drawing of powder took place three months before the accident tha
process was adopted. I saw it done. In drawing that powder there
would be no grit and no steel and no fulminate. If the drawing is
properly done in the blank cartridge before it is pressed in the
way the expert girls do it the powder is completely covered up.
After that turning in is done and the powder is pressed in the
pressing machine the next process is the checking or crimping. The Taken and Sworn before me theday
of189 at
Common