

## MECHANICAL MICE

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(Eric Frank Russell, 1905-1978)

It's asking for trouble to fool around with the unknown. Burman did it! Now there are quite a lot of people who hate like the very devil anything that clicks, ticks, emits whirring sounds, or generally behaves like an asthmatic alarm clock. They've got mechanophobia. Dan Burman gave it to them.

Who hasn't heard of the Burman Bullfrog Battery? The same chap! He puzzled it out from first to last and topped it with his now world-famous slogan: "Power in Your Pocket." It was no mean feat to concoct a thing the size of a cigarette packet that would pour out a hundred times as much energy as its most efficient competitor. Burman differed from everyone else in thinking it a mean feat.

Burman looked me over very carefully, then said, "When that technical journal sent you around to see me twelve years ago, you listened sympathetically. You didn't treat me as if I were an idle dreamer or a congenital idiot. You gave me a decent write-up and started all the publicity that eventually made me much money."

"Not because I loved you," I assured him, "but because I was honestly convinced that your battery was good."

"Maybe." He studied me in a way that conveyed he was anxious to get something off his chest. "We've been pretty pally since that time. We've filled in some idle hours together, and I feel that you're the one of my few friends to whom I can make a seemingly silly confession."

"Go ahead," I encouraged. We had been pretty pally, as he'd said. It was merely that we liked each other, found each other congenial. He was a clever chap, Burman, but there was nothing of the pedantic professor about him. Fortyish, normal, neat, he might have been a fashionable dentist to judge by appearances.

"Bill," he said, very seriously, "I didn't invent that damn battery."

"No?"

"No!" he confirmed. "I pinched the idea. What makes it madder is that I wasn't quite sure of what I was stealing and, crazier still, I don't know from whence I stole it."

"Which is as plain as a pikestaff," I commented.

"That's nothing. After twelve years of careful, exacting work I've built something else. It must be the most complicated thing in creation." He banged a fist on his knee, and his voice rose complainingly. "And now that I've done it, I don't know what I've done."

"Surely when an inventor experiments he knows what he's doing?"

"Not me!" Burman was amusingly lugubrious. "I've invent-ed only one thing in my life, and that was more by accident than by good judgment." He perked up. "But that one thing was the key to a million notions. It gave me the battery. It has nearly given me things of greater importance. On several occasions it has nearly, but not quite, placed within my inadequate hands and half-understanding mind plans that would alter this world far beyond your conception." Leaning forward to lend emphasis to his speech, he said, "Now it has given me a mystery that has cost me twelve years of work and a nice sum of money. I finished it last night. I don't know what the devil it is."

"Perhaps if I had a look at it—"

"Just what I'd like you to do." He switched rapidly to mounting enthusiasm. "It's a beautiful job of work, even though I say so myself. Bet you that you can't say what it is, or what it's supposed to do."

"Assuming it can do something," I put in.

"Yes," he agreed. "But I'm positive it has a function of some sort." Getting up, he opened a door. "Come along."

It was a stunner. The thing was a metal box with a glossy, rhodium-plated surface. In general size and shape it bore a faint resemblance to an upended coffin, and had the same

brooding, ominous air of a casket waiting for its owner to give up the ghost.

There were a couple of small glass windows in its front through which could be seen a multitude of wheels as beautifully finished as those in a first-class watch. Elsewhere, several tiny lenses stared with sphinx-like indifference. There were three small trapdoors in one side, two in the other, and a large one in the front. From the top, two knobbed rods of metal stuck up like goat's horns, adding a satanic touch to the thing's vague air of yearning for midnight burial.

"It's an automatic layer-outer," I suggested, regarding the contraption with frank dislike. I pointed to one of the trapdoors. "You shove the shroud in there, and the corpse comes out the other side reverently composed and ready wrapped."

"So you don't like its air, either," Burman commented. He lugged open a drawer in a nearby tier, hauled out a mass of drawings. "These are its innards. It has an electric circuit, valves, condensers, and something that I can't quite understand, but which I suspect to be a tiny, extremely efficient electric furnace. It has parts I recognize as cog-cutters and pinion-shapers. It embodies several small-scale multiple stampers, apparently for dealing with sheet metal. There are vague suggestions of an assembly line ending in that large compartment shielded by the door in front. Have a look at the drawings yourself. You can see it's an extremely complicated device for manufacturing something only little less complicated."

The drawings showed him to be right. But they didn't show everything. An efficient machine designer could correctly have deduced the gadget's function if given complete details. Burman admitted this, saying that, some parts he had made "on the spur of the moment," while others he had been "impelled to draw." Short of pulling the machine to pieces, there was enough data to whet the curiosity, but not enough to satisfy it.

"Start the damn thing and see what it does."

"I've tried," said Burman. "It won't start. There's no starting handle, nothing to suggest how it can be started. I tried everything I could think of, without result. The electric circuit ends in those antennae at the top, and I even sent current through those, but nothing happened."

"Maybe it's a self-starter," I ventured. Staring at it, a thought struck me. "Timed," I added. "Eh?"

"Set for an especial time. When the dread hour strikes, it'll go of its own accord, like a bomb."

"Don't be so melodramatic," said Burman, uneasily.

Bending down, he peered into one of the tiny lenses.

"Bz-z-z!" murmured the contraption in a faint undertone that was almost inaudible.

Burman jumped a foot. Then he backed away, eyed the thing warily, turned his glance at me.

"Did you hear that?"

"Sure!" Getting the drawings, I mauled them around. That little lens took some finding, but it was there all right. It has a selenium cell behind it. "An eye," I said. "It saw you, and reacted. So it isn't dead even if it does just stand there seeing no evil, hearing no evil, speaking no evil." I put a white handkerchief against the lens.

"Bz-z-z!" repeated the coffin, emphatically.

Taking the handkerchief, Burman put it against the other lenses. Nothing happened. Not a sound was heard, not a funeral note. Just nothing.

"It beats me," he confessed.

I'd got pretty fed up by this time. If the crazy article had performed, I'd have written it up and maybe I'd have started another financial snowball rolling for Burman's benefit. But you can't do anything with a box that buzzes whenever it feels temperamental. Firm treatment was required, I decided.

"You've been all nice and mysterious about how you got hold of this brain wave," I said.

"Why can't you go to the same source for information about what it's supposed to be?"

"I'll tell you—or, rather, I'll show you."

From his safe, Burman dragged out a box, and from the box he produced a gadget. This one was far simpler than the useless mass of works over by the wall. It looked just like one of those old-fashioned crystal sets, except that the crystal was very big, very shiny, and was set in a horizontal vacuum tube. There was the same single dial, the same cat's whisker. Attached to the lot by a length of flex was what might have been a pair of headphones, except in place of the phones were a pair of polished, smoothly rounded copper circles shaped to fit outside the ears and close against the skull.

"My one and only invention." said Burman, not without a justifiable touch of pride.

"What is it?"

"A time-traveling device."

"Ha, ha!" My laugh was very sour. I'd read about such things. In fact, I'd written about them. They were bunkum. Nobody could travel through time, either backward or forward. "Let me see you grow hazy and vanish into the fu-ture."

"I'll show you something very soon." Burman said it with assurance I didn't like. He said it with the positive air of a man who knows darned well that he can do something that everybody else knows darned well can't be done. He pointed to the crystal set. "It wasn't discovered at the first attempt. Thousands must have tried and failed. I was the lucky one. I must have picked a peculiarly individualistic crystal; I still don't know how it does what it does; I've never been able to repeat its performance even with a crystal apparently identical."

"And it enables you to travel in time?"

"Only forward. It won't take me backward, not even as much as one day. But it can carry me forward an immense distance, perhaps to the very crack of doom, perhaps everlastingly through infinity."

I had him now! I'd got him firmly entangled in his own ab-surdities. My loud chuckle was something I couldn't control.

"You can travel forward, but not backward, not even one day back. Then how the devil can you return to the present once you've gone into the future?"

"Because I never leave the present," he replied, evenly. "I don't partake of the future. I merely survey it from the vantage point of the present. All the same, it is time-traveling in the correct sense of the term." He seated himself. "Look here, Bill, what are you?"

"Who, me?"

"Yes, what are you." He went on to provide the answer. "Your name is Bill. You're a body and a mind. Which of them is Bill?"

"Both," I said, positively.

"True—but they're different parts of you. They're not the same even though they go around like Siamese twins." His voice grew serious. "Your body moves always in the present, the dividing line between the past and the future. But your mind is more free. It can think, and is in the present. It can remember, and at once is in the past. It can imagine, and at once is in the future, in its own choice of all the possible fu-tures. Your mind can travel through time!" He'd outwitted me. I could find points to pick upon and argue about, but I knew that fundamentally he was right. I'd not looked at it from this angle before, but he was correct in saying that anyone could travel through time within the limits of his own memory and imagination. At that very moment I could go back twelve years and see him in my mind's eyes as a younger man, paler, thinner, more excitable, not so cool and self-possessed. The picture was as perfect as my memory was excellent. For that brief spell I was twelve years back in all but the flesh.

"I call this thing a psychophone," Burman went on. "When you imagine what the future will be like, you make a charac-teristic choice of all the logical possibilities, you pick your fa-vorite from a multitude of likely futures. The psychophone, somehow—the Lord alone knows how—tunes you into future reality. It makes you depict within your mind the future as it will be shaped in actuality, eliminating all the alternatives that will not occur."

"An imagination-stimulator, a dream-machine," I scoffed, not feeling as sure of myself as I

sounded. "How do you know it's giving you the McCoy?"

"Consistency," he answered, gravely. "It repeats the same features and the same trends far too often for the phenomena to be explained as mere coincidence. Besides," he waved a persuasive hand, "I got the battery from the future. It works, doesn't it?"

"It does," I agreed, reluctantly. I pointed to his psy-chophone. "I, too, may travel in time. How about letting me have a try? Maybe I'll solve your mystery for you."

"You can try if you wish," he replied, quite willingly. He pulled a chair into position. "Sit here, and I'll let you peer into the future."

Clipping the headband over my cranium, and fitting the copper rings against my skull where it sprouted ears, Burman connected his psychophone to the mains, switched it on; or rather he did some twiddling that I assumed was a mode of switching on.

"All you have to do," he said, "is close your eyes, compose yourself, then try and permit your imagination to wander into the future."

He meddled with the cat's whisker. A couple of times he said, "Ah!" And each time he said it I got a peculiar dithery feeling around my unfortunate ears. After a few seconds of this, he drew it out to, "A-a-ah!" I played unfair, and peeped beneath lowered lids. The crystal was glowing like rats' eyes in a forgotten cellar. A furtive crimson.

Closing my own optics, I let my mind wander. Something was flowing between those copper electrodes, a queer, indescribable something that felt with stealthy fingers at some secret portion of my brain. I got the asinine notion that they were the dexterous digits of a yet-to-be-born magician who was going to shout, "Presto!" and pull my abused lump of think-meat out of a thirtieth-century hat—assuming they'd wear hats in the thirtieth century. What was it like, or, rather, what would it be like in the thirtieth century? Would there be retrogression? Would hu-manity again be composed of scowling, fur-kilted creatures lurking in caves? Or had progress continued—perhaps even to the development of men like gods?

Then it happened! I swear it! I pictured, quite voluntarily, a savage, and then a huge-domed individual with glittering eyes—the latter being my version of the ugliness we hope to attain. Right in the middle of this erratic dreaming, those weird fingers warped my brain, dissolved my phantoms, and replaced them with a dictated picture which I witnessed with all the helplessness and clarity of a nightmare.

I saw a fat man spouting. He was quite an ordinary man as far as looks went. In fact, he was so normal that he looked henpecked. But he was attired in a Roman toga, and he wore a small, black box where his laurel wreath ought to have been. His audience was similarly dressed, and all were bal-ancing their boxes like a convention of fish porters. What Fatty was orating sounded gabble to me, but he said his piece as if he meant it.

The crowd was in the open air, with great, curved rows of seats visible in the background. Presumably an outside audi-torium of some sort. Judging by the distance of the back rows, it must have been a devil of a size. Far behind its sweeping ridge a great edifice jutted into the sky, a cubical erection with walls of glossy squares, like an immense glass-house.

"F'wot?" bellowed Fatty, with obvious heat. "Wuk, wuk, wuk, mor, noon'n'ni! Bok onned, ord this, ord that." He stuck an indignant finger against the mysterious object on his cranium.

"Bok onned, wuk, wuk, wuk. F'wot?" he glared around. "F'nix!" The crowd murmured approval somewhat timidly. But it was enough for Fatty. Making up his mind, he flourished a plump fist and shouted, "Th'ell wit'm!" Then he tore his box from his pate.

Nobody said anything, nobody moved. Dumb and wide-eyed, the crowd just stood and stared as if paralyzed by the sight of a human being sans box. Something with a long, slender streamlined body and broad wings soared gracefully upward in the distance, swooped over the auditorium, but still the crowd neither moved nor uttered a sound.

A smile of triumph upon his broad face, Fatty bawled, "Lem see'm make wuk now! Lem see'm—"

He got no further. With a rush of mistiness from its tail, but in perfect silence, the soaring

thing hovered and sent down a spear of faint, silvery light. The light touched Fatty. He rotted where he stood, like a victim of ultra-rapid leprosy. He rotted, collapsed, crumbled within his sagging clothes, became dust as once he had been dust. It was horrible.

The watchers did not flee in utter panic; not one expression of fear, hatred or disgust came from their tightly closed lips. In perfect silence they stood there, staring, just staring, like a horde of wooden soldiers. The thing in the sky circled to survey its handiwork, then dived low over the mob, a stubby antenna in its prow sparking furiously. As one man, the crowd turned left. As one man it commenced to march, left, right, left, right.

Tearing off the headband, I told Burman what I'd seen, or what his contraption had persuaded me to think that I'd seen. "What the deuce did it mean?"

"Automatons," he murmured. "Glasshouses and reaction ships." He thumbed through a big diary filled with notations in his own hands. "Ah, yes, looks like you were very early in the thirtieth century. Unrest was persistent for twenty years prior to the Antibox Rebellion."

"What rebellion?"

"The Antibox—the revolt of the automatons against the thirty-first century Technocrats. Jackson-Dkj-99717, a successful and cunning schemer with a warped box, secretly warped hundreds of other boxes, and eventually led the rebels to victory in 3047. His great-grandson, a greedy, thick-headed individual, caused the rebellion of the Boxless Freeman against his own clique of Jacksocrats."

I gaped at this recital, then said, "The way you tell it makes it sound like history."

"Of course it's history," he asserted. "History that is yet to be." He was pensive for a while.

"Studying the future will seem a weird process to you, but it appears quite a normal procedure to me. I've done it for years, and maybe familiarity has bred contempt. Trouble is though, that selectivity is poor. You can pick on some especial period twenty times in succession, but you'll never find yourself in the same month, or even the same year. In fact, you're fortunate if you strike twice in the same decade. Result is that my data is very erratic."

"I can imagine that," I told him. "A good guesser can guess the correct time to within a minute or two, but never to within ten or even fifty seconds."

"Quite!" he responded. "So the hell of it has been that mine was the privilege of watching the panorama of the future, but in a manner so sketchy that I could not grasp its prizes. Once I was lucky enough to watch a twenty-fifth century power pack assembled from first to last. I got every detail before I lost the scene which I've never managed to hit upon again. But I made that power pack—and you know the result."

"So that's how you concocted your famous battery!"

"It is! But mine, good as it may be, isn't as good as the one I saw. Some slight factor is missing." His voice was suddenly tight when he added, "I missed something because I had to miss it!"

"Why?" I asked, completely puzzled.

"Because history, past or future, permits no glaring paradox. Because, having snatched this battery from the twenty-fifth century, I am recorded in that age as the twentieth-century inventor of the thing. They've made a mild improvement to it in those five centuries, but that improvement was automatically withheld from me. Future history is as fixed and unalterable by those of the present time as is the history of the past."

"Then," I demanded, "explain to me that complicated contraption which does nothing but say bz-z-z."

"Damn it" he said, with open ire, "that's just what's making me crazy! It can't be a paradox, it just can't." Then, more carefully, "So it must be a seeming paradox."

"O.K. You tell me how to market a seeming paradox, and the commercial uses thereof, and I'll give it a first-class write up."

Ignoring my sarcasm, he went on, "I tried to probe the future as far as human minds can probe. I saw nothing, nothing but the vastness of a sterile floor upon which sat a queer machine, gleaming there in silent, solitary majesty. Somehow, it seemed aware of my

scrutiny across the gulf of countless ages. It held my attention with a power almost hypnotic. For more than a day, for a full thirty hours, I kept that vision without losing it—the longest time I have ever kept a future scene."

"Well?"

"I drew it. I made complete drawings of it, performing the task with all the easy confidence of a trained machine draughtsman. Its insides could not be seen, but somehow they came to me, somehow I knew them. I lost the scene at four o'clock in the morning, finding myself with masses of very complicated drawings, a thumping head, heavy-lidded eyes, and a half-scared feeling in my heart." He was silent for a short time. "A year later I plucked up courage and started to build the thing I had drawn. It cost me a hell of a lot of time and hell of a lot of money. But I did it—it's finished."

"And all it does is buzz," I remarked, with genuine sympathy.

"Yes," he sighed, doubtfully.

There was nothing more to be said. Burman gazed moodily at the wall, his mind far, far away. I fiddled aimlessly with the copper earpieces of the psychophone. My imagination, I reckoned, was as good as anyone's, but for the life of me I could neither imagine nor suggest a profitable market for a metal coffin filled with watchmaker's junk. No, not even if it did make odd noises.

A faint, smooth whir came from the coffin. It was a new sound that swung us round to face it pop-eyed. Whir-r-r! it went again. I saw finely machined wheels spin behind the window in its front.

"Good heavens!" said Burman.

Bz-z-z! Whir-r! Click! The whole affair suddenly slid sidewise on its hidden casters.

The devil you know isn't half so frightening as the devil you don't. I don't mean that this sudden demonstration of life and motion got us scared, but it certainly made us leery, and our hearts put in an extra dozen bumps a minute. This cof-fin-thing was, or might be, a devil we didn't know. So we stood there, side by side, gazing at it fascinatedly, feeling apprehensive of we knew not what.

Motion ceased after the thing had slid two feet. It stood there, silent, imperturbable, its front lenses eyeing us with glassy lack of expression. Then it slid another two feet. Another stop. More meaningless contemplation. After that, a swifter and farther slide that brought it right up to the laboratory table. At that point it ceased moving, began to emit varied but synchronized ticks like those of a couple of sympathetic grandfather clocks.

Burman said, quietly, "Something's going to happen!"

If the machine could have spoken it would have taken the words right out of his mouth. He'd hardly uttered the sentence when a trapdoor in the machine's side fell open, a jointed, metallic arm snaked cautiously through the opening and reached for a marine chronometer standing on the table.

With a surprised oath, Burman dashed forward to rescue the chronometer. He was too late. The arm grabbed it, whisked it into the machine, the trapdoor shut with a hard snap, like the vicious clash of a sprung bear trap. Simultaneously, another trapdoor in the front flipped open, another jointed arm shot out and in again, spearing with ultra-rapid motion too fast to follow. That trapdoor also snapped shut, leaving Burman gaping down at his torn clothing from which his expensive watch and equally expensive gold chain had been ripped away.

"Good heavens!" said Burman, backing from the machine.

We stood looking at it a while. It didn't move again, just posed there ticking steadily as if ruminating upon its welcome meal. Its lenses looked at us with all the tranquil lack of interest of a well-fed cow. I got the idiotic notion that it was happily digesting a mess of cogs, pinions and wheels.

Because its subtle air of menace seemed to have faded away, or maybe because we sensed its entire preoccupation with the task in hand, we made an effort to rescue Burman's valuable timepiece. Burman tugged mightily at the trapdoor through which his watch had

gone, but failed to move it. I tugged with him, without result. The thing was sealed as solidly as if welded in. A large screwdriver failed to pry it open, A crowbar, or a good jimmy would have done the job, but at that point Burman decided that he didn't want to damage the machine which had cost him more than the watch.

Tick-tick-tick! went the coffin, stolidly. We were back where we'd started, playing with our fingers, and no wiser than before. There was nothing to be done, and I felt that the accursed contraption knew it. So it stood there, gaping through its lenses, and jeered tick-tick-tick. From its belly, or where its belly would have been if it'd had one, a slow warmth radiated. According to Burman's drawings, that was the location of the tiny electric furnace. The thing was functioning; there could be no doubt about that! If Burman felt the same way as I did, he must have been pretty mad. There we stood, like a couple of prize boobs, not knowing what the machine was supposed to do, and all the time it was doing under our very eyes whatever it was designed to do."

From where was it drawing its power? Were those anten-nae sticking like horns from its head busily sucking current from the atmosphere? Or was it, perhaps, absorbing radio power? Or did it have internal energy of its own? All the evi-dence suggested that it was making something, giving birth to something, but giving birth to what?

Tick-tick-tick! was the only reply.

Our questions were still unanswered, our curiosity was still unsatisfied, and the machine was still ticking industriously at the hour of midnight. We surrendered the problem until next morning. Burman locked and double-locked his laboratory before we left.

Police officer Burke's job was a very simple one. All he had to do was walk around and around the block, keeping a wary eye on the stores in general and the big jewel depot in particular, phoning headquarters once per hour from the post at the corner.

Night work suited Burke's taciturn disposition. He could wander along, communing with himself, with nothing to bother him or divert him from his inward ruminations. In that particular section nothing ever happened at night, nothing.

Stopping outside the gem-bedecked window, he gazed through the glass and the heavy grille behind it to where a low-power bulb shed light over the massive safe. There was a rajah's ransom in there. The guard, the grille, the automatic alarms and sundry ingenious traps preserved it from the adventurous fingers of anyone who wanted to ransom a rajah. Nobody had made the brash attempt in twenty years. Nobody had even made a try for the contents of the grille-protected window.

He glanced upward at a faintly luminescent path of cloud behind which lay the hidden moon. Turning, he strolled on. A cat sneaked past him, treading cautiously, silently, and hugging the angle of the wall. His sharp eyes detected its slinking shape even in the nighttime gloom, but he ignored it and progressed to the corner.

Back of him, the cat came below the window through which he just had stared. It stopped, one forefoot half-raised, its ears cocked forward. Then it flattened belly-low against the concrete, its burning orbs wide, alert, intent. Its tail waved slowly from side to side.

Something small and bright came skittering toward it, mov-ing with mouselike speed and agility close in the angle of the wall. The cat tensed as the object came nearer. Suddenly, the thing was within range, and the cat pounced with lithe eager-ness. Hungry paws dug at a surface that was not soft and furry, but hard, bright, and slippery. The thing darted around like a clockwork toy as the cat vainly tried to hold it. Finally, with an angry snarl, the cat swiped it viciously, knocking it a couple of yards where it rolled onto its back and emitted softly protesting clicks and tiny, urgent impulses that its fe-line attacker could not sense. Gaining the gutter with a single leap, the cat crouched again. Something else was coming. The cat muscled, its eyes glowed. Another object slightly similar to the curious thing it had just captured, but a little bit bigger, a fraction noisier, and much different in shape. It resembled a small, gold-plated cylinder with a conical front from which projected a slender blade, and it slid along swiftly on invisible wheels.

Again the cat leaped. Down on the corner, Burke heard its brief shriek and following gurgle. The sound didn't bother Burke--he'd heard cats and rats and other vermin make all sorts of queer noises in the night. Phlegmatically, he continued on his beat.

Three quarters of an hour later, Police Officer Burke had worked his way around to the fatal spot. Putting his flash on the body, he rolled the supine animal over with his foot. Its throat was cut. Its throat had been cut with an utter savagery that had half-severed its head from its body. Burke scowled down at it. He was no lover of cats himself, but he found difficulty in imagining anyone hating like that!

"Somebody," he muttered, "wants flaying alive."

His big foot shoved the dead cat back into the gutter where street cleaners could cart it away in the morning. He turned his attention to the window, saw the light still glowing upon the untouched safe. His mind was still on the cat while his eyes looked in and said that something was wrong. Then he dragged his attention back to business, realized what was wrong, and sweated at every pore. It wasn't the safe, it was the window.

In front of the window the serried trays of valuable rings still gleamed undisturbed. To the right, the silverwares still shone untouched. But on the left had been a small display of delicate and extremely expensive watches. They were no longer here, not one of them. He remembered that right in front had rested a neat, beautiful calendar-chronometer priced at a year's salary. That, too, was gone.

The beam of his flash trembled as he tried the gate, found it fast, secure. The door behind it was firmly locked. The transom was closed, its heavy wire guard still securely fixed. He went over the window, eventually found a small, neat hole, about two inches in diameter, down in the corner on the side nearest the missing display.

Burke's curse was explosive as he turned and ran to the corner. His hand shook with indignation while it grabbed the telephone from its box. Getting headquarters, he recited his story. He thought he'd a good idea of what had happened, fancied he'd read once of a similar stunt being pulled elsewhere.

Looks like they cut a disk with a rotary diamond, lifted it out with a suction cup, then fished through the hole with a telescopic rod." He listened a moment, then said. "Yes, yes. That's just what gets me—the rings are worth ten times as much."

His still-startled eyes looked down the street while he paid attention to the voice at the other end of the line. The eyes wandered slowly, descended, found the gutter, remained fixed on the dim shape lying therein. Another dead cat! Still clinging to his phone, Burke moved out as far as the cord would allow, extended a boot, rolled the cat away from the curb. The flash settled on it. Just like the other—ear to ear!

"And listen," he shouted into the phone, "some maniac's wandering around slaughtering cats."

Replacing the phone, he hurried back to the maltreated window, stood guard in front of it until the police car rolled up. Four men piled out.

The first said, "Cats! I'll say somebody's got it in for cats! We passed two a couple of blocks away. They were bang in the middle of the street, flat in the headlights, and had been damn near guillotined. Their bodies were still warm."

The second grunted, approached the window, stared at the small, neat hole, and said, "The mob that did this would be too cute to leave a print."

"They weren't too cute to leave the rings," growled Burke.

"Maybe you've got something there," conceded the other. "If they've left the one, they might have left the other. We'll test for prints, anyway."

A taxi swung into the dark street, pulled up behind the police car. An elegantly dressed, fussy, and very agitated individual got out, rushed up to the waiting group. Keys jangled in his pale, moist hand.

"Maley, the manager—you phoned me," he explained, breathlessly. "Gentlemen, this is terrible, terrible! The window show is worth thousands, thousands! What a loss, what a loss!"

"How about letting us in?" asked one of the policemen, calmly.

"Of course, of course."

Jerkily, he opened the gate, unlocked the door, using about six keys for the job. They walked inside. Maley switched on the lights, stuck his head between the plateglass shelves, surveyed the depleted window.

"My watches, my watches," he groaned.

"It's awful, it's awful!" said one of the policemen, speaking with beautiful solemnity. He favored his companions with a sly wink.

Maley leaned farther over, the better to inspect an empty corner. "All gone, all gone," he moaned, "all my show of the finest makes in—Yeeouw!" His yelp made them jump. Maley bucked as he tried to force himself through the obstructing shelves toward the grille and the window beyond it. "My watch! My own watch!"

The others tiptoed, stared over his shoulders, saw the gold buckle of a black velvet fob go through the hole in the window. Burke was the first outside, his ready flash searching the concrete. Then he spotted the watch. It was moving rapidly along, hugging the angle of the wall, but it stopped dead as his beam settled upon it. He fancied he saw something else, equally bright and metallic, scoot swiftly into the darkness beyond the circle of his beam. Picking up the watch, Burke stood and listened. The noises of the others coming out prevented him from hearing clearly, but he could have sworn he'd heard a tiny whirring noise, and a swift, juicy ticking that was not, coming from the instrument in his hand. Must have been only his worried fancy. Frowning deeply, he returned to his companions.

"There was nobody," he asserted. "It must have dropped out of your pocket and rolled."

Damn it, he thought, could a watch roll that far? What the devil was happening this night? Far up the street, something screeched, then it bubbled. Burke shuddered—he could make a shrewd guess at that! He looked at the others, but apparently they hadn't heard the noise.

The papers gave it space in the morning. The total was sixty watches and eight cats, also some oddments from the small stock of a local scientific instrument maker. I read about it on my way down to Burman's place. The details were fairly lavish, but not complete. I got them completely at a later time when we discovered the true significance of what had occurred. Burman was waiting for me when I arrived. He appeared both annoyed and bothered. Over in the corner, the coffin was ticking away steadily, its noise much louder than it had been the previous day. The thing sounded a veritable hive of industry.

"Well?" I asked.

"It's moved around a lot during the night," said Burman. "It's smashed a couple of thermometers and taken the mercury out of them. I found some drawers and cupboards shut, some open, but I've an uneasy feeling that it's made a thorough search through the lot. A packet of nickel foil has vanished, a coil of copper wire has gone with it." He pointed an angry finger at the bottom of the door through which I'd just entered. "And I blame it for gnawing ratholes in that. They weren't there yesterday."

Sure enough, there were a couple of holes in the bottom of that door. But no rat made those—they were neat and smooth and round, almost as if a carpenter had cut them with a keyhole saw.

"Where's the sense in it making those?" I questioned. "It can't crawl through apertures that size."

"Where's the sense in the whole affair?" Burman countered. He glowered at the busy machine which stared back at him with its expressionless lenses and churned steadily on. Tick-tick-tick! persisted the confounded thing. Then, whir-thump-click!

I opened my mouth intending to voice a nice, sarcastic comment at the machine's expense when there came a very tiny, very subtle and extremely high-pitched whine. Something small, metallic, glittering shot through one of the rat holes, fled across the floor toward the churning monstrosity. A trapdoor opened and swallowed it with such swiftness that it had disappeared before I realized what I'd seen. The thing had been a cylindrical, polished

object resembling the shuttle of a sewing machine, but about four times the size. And it had been dragging something also small and metallic.

Burman stared at me; I stared at Burman. Then he foraged around the laboratory, found a three-foot length of half-inch steel pipe. Dragging a chair to the door, he seated himself, gripped the pipe like a bludgeon, and watched the rat holes, Imperturbably, the machine watched him and continued to tick-tick-tick.

Ten minutes later, there came a sudden click and another tiny whine. Nothing darted inward through the holes, but the curious object we'd already seen—or another one exactly like it—dropped out of the trap, scooted to the door by which we were waiting. It caught Burman by surprise. He made a mad swipe with the steel as the thing skittered elusively past his feet and through a hole. It had gone even as the weapon wal-loped the floor.

"Damn!" said Burman, heartily. He held the pipe loosely in his grip while he glared at the industrious coffin. "I'd smash it to bits except that I'd like to catch one of these small gadgets first."

"Look out!" I yelled.

He was too late. He ripped his attention away from the coffin toward the holes, swinging up the heavy length of pipe, a startled look on his face. But his reaction was far too slow. Three of the little mysteries were through the holes and half-way across the floor before his weapon was ready to swing. The coffin swallowed them with the crash of a trapdoor.

The invading trio had rushed through in single file, and I'd got a better picture of them this time. The first two were golden shuttles, much like the one we'd already seen. The third was bigger, speedier, and gave me the notion that it could dodge around more dexterously. It had a long, sharp projection in front, a wicked, ominous thing like a surgeon's scalpel. Sheer speed deprived me of a good look at it, but I fancied that the tip of the scalpel had been tinged with red. My spine exuded perspiration.

Came an irritated scratching upon the outside of the door and a white-tipped paw poked tentatively through one of the holes. The cat backed to a safe distance when Burman opened the door, but looked lingeringly toward the labora-tory. Its presence needed no explaining—the alert animal must have caught a glimpse of those infernal little whizzers. The same thought struck both of us; cats are quick on the pounce, very quick. Given a chance, maybe this one could make a catch for us.

We enticed it in with fair words and soothing noises. Its eagerness overcame its normal caution toward strangers, and it entered. We closed the door behind it; Burman got his length of pipe, sat by the door, tried to keep one eye on the holes and the other on the cat. He couldn't do both, but he tried. The cat sniffed and prowled around, mewed defeatedly. Its behavior suggested that it was seeking by sight rather than scent. There wasn't any scent. With feline persistence, the animal searched the whole laboratory. It passed the buzzing coffin several times, but ig-nored it completely. In the end, the cat gave it up, sat on the corner of the laboratory table and started to wash its face.

Tick-tick-tick! went the big machine. Then whir-thump! A trap popped open, a shuttle fell out and raced for the door. A second one followed it. The first was too fast even for the cat, too fast for the surprised Burman as well. Bang! The length of the steel tube came down viciously as the leading shuttle bulletted triumphantly through a hole.

But the cat got the second one. With a mighty leap, paws extended, claws out, it caught its victim one foot from the door. It tried to handle the slippery thing, failed, lost it for an instant. The shuttle whisked around in a crazy loop. The cat got it again, lost it again, emitted an angry snarl, batted it against the skirting board. The shuttle lay there, upside down, four midget wheels in its underside spinning madly with a high, almost inaudible whine.

Eyes alight with excitement, Burman put down his weapon, went to pick up the shuttle. At the same time, the cat slunk toward it ready to play with it. The shuttle lay there, helplessly functioning upon its hack. Before either could reach it the big machine across the room went clunk! opened a trap and ejected another gadget.

With astounding swiftness, the cat turned and pounced upon the newcomer. Then followed pandemonium. Its prey swerved agilely with a fitful gleam of gold; the cat swerved with it, cursed and spat. Black-and-white fur whirled around in a fighting haze in which gold occasionally glowed; the cat's hissings and spittings overlay a persistent whine that swelled and sank in the manner of accelerating or decelerating gears.

A peculiar gasp came from the cat, and blood spotted the floor. The animal clawed wildly, emitted another gasp followed by a gurgle. It shivered and flopped, a stream of crimson pouring from the great gash in its gullet.

We'd hardly time to appreciate the full significance of the ghastly scene when the victor made for Burman. He was standing by the skirting board, the still-buzzing shuttle in his hand. His eyes were sticking out with utter horror, but he retained enough presence of mind to make a frantic jump a second before the bulleting menace reached his feet.

He landed behind the thing, but it reversed in its own length and came for him again. I saw the mirrorlike sheen of its scalpel as it banked at terrific speed, and the sheen was drowned in sticky crimson two inches along the blade. Burman jumped over it again, reached the lab table, got up on that.

"Lord!" he breathed.

By this time I'd got the piece of pipe which he'd discarded. I hefted it, feeling its comforting weight, then did my best to bat the buzzing lump of wickedness through the window and over the roofs. It was too agile for me. It whirled, accelerated, dodged the very tip of the descending steel, and flashed twice around the table upon which Burman had taken refuge. It ignored me completely. Somehow, I felt that it was responding entirely to some mysterious call from the shuttle Burman had captured.

I swiped desperately, missed it again, though I swear I missed by no more than a millimeter. Something whipped through the holes in the door, fled past me into the big machine. Dimly, I heard traps opening and closing and beyond all other sounds that steady, persistent tick-tick-tick. Another furious blow that accomplished no more than to dent the floor and jar my arm to the shoulder.

Unexpectedly, unbelievably, the golden curse ceased its insane gyrations on the floor and around the table. With a hard click, and a whir much louder than before, it raced easily up one leg of the table and reached the top.

Burman left his sanctuary in one jump. He was still clinging to the shuttle. I'd never seen his face so white.

"The machine!" he said, hoarsely. "Bash it to hell!"

Thunk! went the machine. A trap gaped, released another demon with a scalpel. Bzz-z-z! a third shot in through the holes in the door. Four shuttles skimmed through behind it, made for the machine, reached it safely. A fifth came through more slowly. It was dragging an automobile valve spring. I kicked the thing against the wall even as I struck a vain blow at one with a scalpel.

With another jump, Burman cleared an attacker. A second sheared off the toe of his right shoe as he landed. Again he reached the table from which his first toe had departed. All three things with scalpels made for the table with a reckless vim that was frightening.

"Drop that damned shuttle," I yelled.

He didn't drop it. As the fighting trio whirred up the legs, he flung the shuttle with all his might at the coffin that had given it birth. It struck, dented the casing, fell to the floor. Burman was off the table again. The thrown shuttle lay battered and noiseless, its small motive wheels stilled.

The armed contraptions scooting around the table seemed to change their purpose coincidentally with the captured shuttle's smashing. Together, they dived off the table, sped through the holes in the door. A fourth came out of the machine, escorting two shuttles, and those too vanished beyond the door. A second or two later, a new thing different from the rest, came in through one of the holes. It was long, round-bodied, snub-nosed, about half the length of a police-man's nightstick, had six wheels beneath, and a double row of peculiar

serrations in front. It almost sauntered across the room while we watched it fascinatedly. I saw the serrations jerk and shift when it climbed the lowered trap into the machine. They were midget caterpillar tracks!

Burman had had enough. He made up his mind. Finding the steel pipe, he gripped it firmly, approached the coffin. Its lenses seemed to leer at him as he stood before it. Twelve years of intensive work to be destroyed at a blow. Endless days and nights of effort to be undone at one stroke. But Burman was past caring. With a ferocious swing he demolished the glass, with a fierce thrust he shattered the assembly of wheels and cogs behind.

The coffin shuddered and slid beneath his increasingly angry blows. Trapdoors dropped open, spilled out lifeless samples of the thing's metallic brood. Grindings and raspings came from the accursed object while Burman battered it to pieces. Then it was silent, a shapeless, useless mass of twisted and broken parts.

I picked up the dented shape of the object that had sauntered in. It was heavy, astonishingly heavy, and even after partial destruction its workmanship looked wonderful. It had a tiny, almost unnoticeable eye in front, but the miniature lens was cracked. Had it returned for repairs and overhaul?

"That," said Burman, breathing audibly, "is that!"

I opened the door to see if the noise had attracted attention. It hadn't. There was a lifeless shuttle outside the door, a second a yard behind it. The first had a short length of brass chain attached to a tiny hook projecting from its rear. The nose cap of the second had opened fanwise, like an iris diaphragm, and a pair of jointed metal arms were folded inside, hugging a medium-sized diamond. It looked as if they'd been about to enter when Burman destroyed the big machine.

Picking them up, I brought them in. Their complete inactivity, though they were undamaged, suggested that they had been controlled by the big machine and had drawn their motive power from it. If so, then we'd solved our problem simply, and by destroying the one had destroyed the lot.

Burman got his breath back and began to talk.

He said, "The Robot Mother! That's what I made—a duplicate of the Robot Mother. I didn't realize it, but I was patiently building the most dangerous thing in creation, a thing that is a terrible menace because it shares with mankind the ability to propagate. Thank Heaven we stopped it in time!"

"So," I remarked, remembering that he claimed to have got it from the extreme future, "that's the eventual master, or mistress, of Earth. A dismal prospect for humanity, eh?"

"Not necessarily. I don't know just how far I got, but I've an idea it was so tremendously distant in the future that Earth had become sterile from humanity's viewpoint. Maybe we'd emigrated to somewhere else in the cosmos, leaving our semi-intelligent slave machines to fight for existence or die. They fought—and survived."

"And then wangle things to try to alter the past in their favor," I suggested.

"No, I don't think so." Burman had become much calmer by now. "I don't think it was a dastardly attempt so much as an interesting experiment. The whole affair was damned in advance because success would have meant an impossible paradox. There are no robots in the next century, nor any knowledge of them. Therefore the intruders in this time must have been wiped out and forgotten."

"Which means," I pointed out, "that you must not only have destroyed the machine, but also all your drawings, all your notes, as well as the psychophone, leaving nothing but a few strange events and a story for me to tell."

"Exactly—I shall destroy everything. I've been thinking over the whole affair, and it's not until now I've understood that the psychophone can never be of the slightest use to me. It permits me to discover or invent only those things that history has decreed I shall invent, and which, therefore, I shall find with or without the contraption. I can't play tricks with history, past or future."

"Humph!" I couldn't find any flaw in his reasoning. "Did you notice," I went on, "the touch of bee psychology in our antagonists? You built the hive, and from it emerged workers, warriors, and"—I indicated the dead saunterer—"one drone."

"Yes," he said, lugubriously. "And I'm thinking of the honey—eighty watches! Not to mention any other items the late patters may report, plus any claims for slaughtered cats. Good thing I'm wealthy."

"Nobody knows you've anything to do with those incidents. You can pay secretly if you wish." "I shall," he declared.

"Well," I went on, cheerfully, "all's well that ends well. Thank goodness we've got rid of what we brought upon ourselves."

With a sigh of relief, I strolled toward the door. A high whine of midget motors drew my startled attention downward. While Burman and I stared aghast, a golden shuttle slid easily through one of the rat holes, sensed the death of the Robot Mother and scooted back through the other hole before I could stop it.

If Burman had been shaken before, he was doubly so now. He came over to the door, stared incredulously at the little exit just used by the shuttle, then at the couple of other undamaged but lifeless shuttles lying about the room.

"Bill," he mouthed, "your bee analogy was perfect. Don't you understand? There's another swarm! A queen got loose!"

There was another swarm all right. For the next forty-eight hours it played merry hell. Burman spent the whole time down at headquarters trying to convince them that his evidence wasn't just a fantastic story, but what helped him to persuade the police of his veracity was the equally fantastic reports that came rolling in.

To start with, old Gildersome heard a crash in his shop at midnight, thought of his valuable stock of cameras and mini-ature movie projectors, pulled on his pants and rushed downstairs. A razor-sharp instrument stabbed him through the right instep when halfway down, and he fell the rest of the way. He lay there, badly bruised and partly stunned, while things clicked, ticked and whirred in the darkness and the gloom. One by one, all the contents of his box of expensive lenses went through a hole in the door. A quantity of projec-tor cogs and wheels went with them.

Ten people complained of being robbed in the night of watches and alarm clocks. Two were hysterical. One swore that the bandit was "a six-inch cockroach" which purred like a toy dynamo. Getting out of bed, he'd put his foot upon it and felt its cold hardness wriggle away from beneath him. Filled with revulsion, he'd whipped his foot back into bed "just as another cockroach scuttled toward him." Burman did not tell that agitated complainant how near he had come to losing his foot.

Thirty more reports rolled in next day. A score of houses had been entered and four shops robbed by things that had the agility and furtiveness of rats—except that they emitted tiny ticks and buzzing noises. One was seen racing along the road by a homing railway worker. He tried to pick it up, lost his forefinger and thumb, stood nursing the stumps until an ambulance rushed him away.

Rare metals and fine parts were the prey of these ticking marauders. I couldn't see how Burman or anyone else could wipe them out once and for all, but he did it. He did it by baiting them like rats. I went around with him, helping him on the job, while he consulted a map.

"Every report," said Burman, "leads to this street. An alarm clock that suddenly sounded was abandoned near here. Two automobiles were robbed of small parts near here. Shuttles have been seen going to or from this area. Five cats were dealt with practically on this spot. Every other incident has taken place within easy reach."

"Which means," I guessed, "that the queen is somewhere near this point?"

"Yes." He stared up and down the quiet empty street over which the crescent moon shed a sickly light. It was two o'clock in the morning. "We'll settle this matter pretty soon!"

He attached the end of a reel of firm cotton to a small piece of silver chain, nailed the reel to

the wall, dropped the chain on the concrete. I did the same with the movement of a broken watch. We distributed several small cogs, a few clock wheels, several camera fittings, some small, tangled bunches of copper wire, and other attractive oddments.

Three hours later, we returned accompanied by the police. They had mallets and hammers with them. All of us were wearing steel leg-and-foot shields knocked up at short notice by a handy sheet-metal worker.

The bait had been taken! Several cotton strands had broken after being unreeled a short distance, but others were intact. All of them either led to or pointed to a steel grating leading to a cellar below an abandoned warehouse. Looking down, we could see a few telltale strands running through the window frame beneath.

Burman said, "Now!" and we went in with a rush. Rusty locks snapped, rotten doors collapsed, we poured through the warehouse and into the cellar.

There was a small, coffin-shaped thing against one wall, a thing that ticked steadily away while its lenses stared at us with ghastly lack of emotion. It was very similar to the Robot Mother, but only a quarter of the size. In the light of a police torch, it was a brooding, ominous thing of dreadful significance. Around it, an active clan swarmed over the floor, buzzing and ticking in metallic fury.

Amid angry whirs and the crack of snapping scalpels on steel, we waded headlong through the lot. Burman reached the coffin first, crushing it with one mighty blow of his twelve-pound hammer, then bashing it to utter ruin with a rapid succession of blows. He finished exhausted. The daughter of the Robot Mother was no more, nor did her alien tribe move or stir.

Sitting down on a rickety wooden case, Burman mopped his brow and said, "Thank heavens that's done!"

Tick-tick-tick!

. He shot up, snatched his hammer, a wild look in his eyes.

"Only my watch," apologized one of the policemen. "It's a cheap one, and it makes a hell of a noise." He pulled it out to show the worried Burman.

"Tick! tick!" said the watch, with mechanical aplomb.