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HELD BY THE GREASE.

**A Machine That Separates Diamonds
From the Concentrates.**

When the negro laborers descend into the diamond mines at Kimberley they blast and pick out the hard diamantiferous earth and put it into wooden tubs, which are hauled on stout wires to the surface, where the earth is spread over the ground to undergo for several months the softening influences of heat and cold. When it is soft enough it is shoveled into the washing machines, where the dirt is separated from the rough diamonds and other large mineral substances. The mixture of minerals remaining is known as concentrates.

It was formerly necessary to go carefully over these concentrates to pick out the garnets and many other foreign substances until nothing remained but the rough diamonds. This was a slow and laborious operation, but it was an essential part of the mining industry until it was superseded a few years ago.

Among the employees in the sorting room was a young fellow named Kersten, who quietly went to work to find a way to separate the diamonds from other stones more quickly and easily than could be done by the slow process of hand picking. He was not discouraged by his many failures to find that way.

One day by the merest accident he made the discovery he was after. A rough diamond and a garnet happened to be lying on a small board on the bench where he was working. He raised one end of the board. The garnet slipped off, but the diamond remained. This was worth investigating. He found that there was a coating of grease on the board, which had retained the diamond, but not the garnet.

He procured a wider board, coated one side of it with grease and dumped a few handfuls of concentrates on it. Then he found that by holding the board in a slightly inclined position and vibrating it all the concentrates except the diamonds moved to the lower end and fell off, while the diamonds remained in place.

Then he invented a machine by which his discovery might be utilized. Considerable study was required to perfect the apparatus, but at last the machine was completed, and the big diamond men were invited to witness the new method of separating diamonds from the rest of the concentrates. The invention was an entire success. A more simple and complete device for saving time, labor and loss of diamonds could not be imagined. The entire work is now done by machinery. Hand picking has been wholly superseded, and both the inventor and the mine owners have profited handsomely by the labor saving machine.—Harper's Weekly.

Too Big a Risk.

"Did you succeed in selling old Nye a lot in the new cemetery?" one of the summer residents asked a native of Harborville.

"No, I didn't," said the man, with an expression reminiscent of both amusement and scorn. "He said he was afraid he'd never get the full value of such an investment."

"I can't see how he could help getting it," said the summer resident. "We all have to die some time."

"I know," said the native, "and I reminded him of that fact, but he told me he never could lay his plans from month to month, and now two of his nephews own yachts—he thought more'n likely he should be lost at sea."—Youth's Companion.

The Boy's Verdict.

Sister Jane lingered with the visitor at the front door, but at last the visitor went, and Sister Jane tripped lightly upstairs to her own room, humming softly and gladly to herself. She wanted to be alone to think over all the nice things the visitor had said.

Little James, aged seven, entered the sitting room slowly and thoughtfully.

"Mamma," he said, "sister's new beau isn't as stingy as I thought he was."

"Isn't he, dear? Well, I'm glad to hear it," answered his mother.

"No," said Brother James deliberately; "he's stingier."—London Mail.

Obedient Orders.

At the piano Mrs. Eaton was guiding Edith and Edward and Jack through the intricacies of an old English melody when she became aware that the twins were adding their voices from an indiscreet distance and stopped playing.

"Children," she exclaimed, "you are not allowed to join in the chorus with Edith and Edward."

"We weren't," the twins protested in a slightly resentful tone. "We were singing something quite different."—London Ideas.

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Fine Game of Football.

On last Saturday afternoon a nice, clean game of football was played on the college campus, between the college team and the Willamette second team, resulting in a score of 6 to 6.

In a very few minutes after the game began the home team made a touch-down and kicked goal. The visitors also made their score before the end of the first half. After this it was an even match and neither team was able to make any scores.

The line up was as follows:

P. C.	Willamette
E. Pearson	C. Winslow
Benson	L. G. Ohmart
Elliott	R. G. W. Vanderwort
Lindley	L. T. Lund
A. Pearson	R. T. C. Vanderwort
Stretch	L. E. Hepp, Schramm
Hadley	R. E. Pfalt
Armstrong	Q. Booth
Williams	L. H. Gibson
Lewis	R. H. Roland
Smith	F. Hamilton

African Game Trails.

But the leopard did not wait to be driven. Without any warning, out he came and charged straight at Kermit, who stopped him when he was but six yards off with a bullet in the forehead of the body; the leopard turned, and as he galloped back Kermit hit him again and the wounds were fatal, and they would have knocked the fight out of any animal less plucky and savage than the leopard; but not even in Africa is there a beast of more unflinching courage than this spotted cat. The beaters were much excited by the sight of the charge and the way in which it was stopped, and they pressed jubilantly forward, too heedlessly; one of them, who was on McMillan's side of the thicket, went too near it, and out came the wounded leopard at him. It was badly crippled or it would have got—

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A good rule for every farmer is the two-foot rule.

FELT THE VIBRATION.

A Bit of Play That Led to the Discovery of the Phonograph.

Accident has had so much to do with all great inventions that it will not be surprising to hear that the phonograph was a chance discovery.

Many years ago, while Edison was experimenting on diaphragms for the telephone, he had constructed a number of small sheepskin drum-heads to compare with the metal one. To some of these sheepskin diaphragms he had attached a small needle, which was intended to project toward the magnet and assist in conveying the vibrations caused by the human voice.

The sheepskin diaphragms did not fulfill Edison's expectations and were discarded and thrown aside as rubbish. His assistants soon discovered that by holding the sheepskin diaphragms in front of their mouths and emitting a guttural sound between the lips a peculiar noise, approaching music, could be produced.

In passing one of the men engaged in playing on a diaphragm one day Edison playfully attempted to stop the noise by touching the projecting metal pin with his finger and had no sooner done so than he started.

"Do that again," said Edison, and it was repeated, and again his finger touched the pin, to his evident delight.

He went about for some time, asking one after another of his assistants to hum or sing against the diaphragm, and finally he got them to talk against it, he all the time touching the pin lightly with his finger.

Finally he retired to his den and commenced drawing diagrams for new machinery, which his assistants speedily made, and a few days later the first phonograph was put together.

It was a crude affair, the pin making an impression on the wax, and it talked imperfectly, but it did well enough to show Edison that he was on the right track, and he rapidly improved it.

A hundred men might have felt the vibration of that pin attached to the piece of sheepskin, but it took an Edison to instantly realize that the vibration might be made to indent a soft substance and be susceptible of reproducing the exact sounds of the human voice that caused the different vibrations.—St. Louis Globe-Democrat.

"Mistah Jenkins," asked an old negro of Atlanta of his employer, "would yo' be so good, sah, as to explain to me 'bout this wireless telegraph business I hears 'em a-talkin' 'bout?"

"Why, certainly, Henry," responded the employer, "though I can do so only in a general way, as I myself know little of the subject. The thing consists in sending messages through the air instead of over wires."

"Yassah," said Henry; "I knows 'bout dat; but, sah, what beats me is how dey fasten the air to the poles."—St. Louis Republic.

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