

water. "It's his father I think of," said she...

Connor groaned. "Keep up if you can, my man," said the captain...

"Keep up if you can, my man," said the captain, "I wish any one else had it to tell rather than I..."

In the morning she called me to her. "Tell Connor I died, thinking of him," she said...

"Tell Connor I died, thinking of him," she said, "and tell him to meet me..."

Connor had risen; he stood up trying to steady himself looking at the captain with his eyes as dry as two stones...

"I've got my death, boys," he said, and then dropped to the floor like a log.

They raised him and bore him away. In an hour he was at home in the little bed which had been made ready for Nora...

"Better, Connor?" asked the old man. "A dale," said Connor. "It'saisy, now, I'll be with her, soon..."

And with these words Connor stretched out his arms. Perhaps he did see Nora—Heaven only knows—and so he died.

JOHN HOWARD PAYNE.

BY JOHN G. SAXE.

At the unveiling of the statue to John Howard Payne, the well known author of "Home Sweet Home" in New York Central Park...

To him who sang "Home Sweet Home," In strains so sweet the simple lay Has thrilled a million hearts...

The noble deed we fondly seek To honor with applauding breath; Unheeded fall the words we speak...

Columbia's sons—We share his fame 'Tis for ourselves the bust we rear, That they who mark the graven name...

But not alone the lyric fire Was his; the Drama's muse can tell His genius could a Kean inspire...

Kind hearts and brave, with truth severe He drew unconscious, from his own; O nature rare! But pilgrims here...

Who, homeless, in a foreign land, So sweetly sang the joys of home!"

DIAMOND CUTTING—A NEW INDUSTRY IN NEW YORK.

THE SHAPES IN WHICH DIAMONDS ARE CUT. Leaving the cleaver at his delicate labor, we were afterwards conducted to the cutter ornyder...

The cutter labor is purely "diamond cut diamond." The stone to be cut is held in its setting firmly in the left hand...

THE CUTTERS. The same form of box used by the cleaver is before him, and the diamonds are fastened by cement, as before, in the ends of spindles...

ABOUT THE WORKMEN AND THEIR PAY. Our examination here concluded, for polishing the diamond next claimed our attention...

WHERE THE DIAMONDS COME FROM. The diamonds are principally imported hither from Brazil. South African gems have caused no very marked effect in the market...

DIAMOND CUTTING IN ENGLAND. We notice that diamond cutting has recently been introduced in Birmingham, England where there is every prospect of the art reaching a flourishing state...

PROSPECTS OF THE ART. We see no reason why the art which we have described should not grow in this country to be an important branch of national industry...

VOICE AND SOUND. It is a curious fact, that musical sounds fly farther and are heard at a greater distance than those which are more loud and noisy...

IMPROVED SHOEMAKER'S PINCHERS. Mr. William H. Hanna, of Chico, Butte county, California, has recently patented, through the Scientific American Patent Agency, an improved form of shoemaker's pinchers...

RENEWING INJURED STONES. It is to this portion of the establishment that injured stones are sent for repairing. We were shown a number of diamonds that had been through the Chicago fire...

THE EYES IN DEEP-SEA CREATURES. In his "Notes from the Challenger," Wyville Thomson says: The absence of eyes in many deep-sea animals and their full development in others is very remarkable...

WANTED—A CHANGE. The people who say that all they want is a chance—are you old enough to have found them out? Of all miserable souls these used to appeal most quickly to my sympathies...

LOSING AN UMBRELLA. A man, says the Danbury News, may lose friends, home, position, fortune. They are different from an umbrella. He may lose them; he is sure to lose that...

TRUE ENOUGH. What wonderful power has the true wife over home and husband! No man ever prospered in the world without the co-operation of his wife...

away; no measurements are taken or angles calculated. The eye is the only guide, and it seems to be a faultless one...

cutting it is operated upon, by that diamond No. 2 is, in turn, cut by No. 3, this by No. 4, and so on...

for examination; all mica-like sheen was gone; and were it not for their form, they presented no different appearance from rough quartz pebbles...

ground together with considerable force; the workman being obliged to protect his hands by thick coatings against the rubbing action of the tool...

POLISHING THE DIAMOND—THE SETTER. The polishing operation next claimed our attention; and ascending to an upper story, we found the polishers or slyppers at their work...

In addition, to these workmen is the setter, and with him we have first, to deal. At one side of the room was a small charcoal furnace, in which a number of metal acorns seemed to be roasting...

the setter occasionally tried the hardness of the solder with his forceps until the metal became of about the consistency of putty. Quickly removing an acorn, or, to use the technical name, a "dopp," from the fire, he placed it upright in a small stand...

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Each brilliant large or small, has to undergo this operation once for each facet; that is, the setter must reset it so that every one of its facets in succession may be exactly horizontal and outside the holding metal, in order that each face may receive its proper polish—an operation requiring no small amount of delicacy and skill...

THE POLISHERS. were seated before long tables, on which were swiftly rotating horizontal disks fastened on vertical spindles, the lower ends of which revolved in antifriction steps. The disks, we were told, revolved at the rate of 2,000 turns a minute, and yet the bearings kept perfectly cool...

The machine is an invention of Mr. Hermann's and an improvement upon the old apparatus used in Amsterdam, a specimen of which he exhibited to us. The construction of the latter seemed very rude and primitive, being formed almost entirely of wood; the bearings, it is stated, were continually heating and wearing out...

The disks or shires are circular plates of a composition containing both iron and steel, and are made and turned in the establishment. They are ground in lines, at an angle from center to circumference, so as to hold the oil and diamond dust used in the polishing operation...

Three diamonds, set as above described, are ground at once, by each polisher. The stem of the dopp is fastened in tongs or clamps, the extremity of the latter being supported by logs an inch or so high. Two-thirds of the dust ground off in the cutting is allowed to polish each diamond, and this, mixed with oil, is applied to the stone by the quills which the men adjust to be phlegmatically chewing...

The adjusting of the gem on the disk requires wonderful accuracy in order that exactly the proper facet be ground and no more; for the slightest mistake might cut away an angle and produce serious damage to the stone. The reader will share in the astonishment we felt on learning that this extremely delicate work was done by feeling. So sensitive is the touch of the artist that he tells, by pressing on the stem of the dopp exactly whether it lies true against the shive or not, and by his fingers adjusts the stone over incredibly minute angles and distances...

This goes on till each facet is brought to the requisite brilliancy. Standing by one of the machines, we saw, as the diamond was removed from time to time from the disk, the bright spot on its dull face gradually enlarge, as heavier weights were put upon the tongs to press the stone with increased force against the shive. Sometimes the gem defies all efforts, the hard outer coating refuses to yield, and then it is passed from hand to hand, and for weeks each workman tries to conquer it. Sometimes they fail; at others, a bright spot at length appears, and the difficulty is over...

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At one side of the room was a small charcoal furnace, in which a number of metal acorns seemed to be roasting. Each of the latter consisted of a copper cup about an inch and a half in diameter, provided with a stem of stout wire of the same metal and filled with plumber's solder. As they rested on the glowing coals, the setter occasionally tried the hardness of the solder with his forceps until the metal became of about the consistency of putty...

Quickly removing an acorn, or, to use the technical name, a "dopp," from the fire, he placed it upright in a small stand. Then he fixed a diamond exactly in the center of the plastic metal, and, with his fingers coolly molded the latter in conical shape around it. Burning seemed to have no terrors for him, and although when the dopp was plunged in water, it hissed at a great rate, the hand of the workman showed no effect of the heat...

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mentioned the end of one of the stair-eyes surface, which, in which well-developed eyes are present in examples from shallow water. In deeper water, from 110 to 370 fathoms, eye stalks are present, but the animal is apparently blind, the eyes being replaced by rounded calcareous terminations to the stalks. In examples from 500 to 700 fathoms, in another locality, the eye stalks have lost their special character, have become fixed, and their terminations combine into a strong, pointed rostrum. In this case we have a gradual modification, depending apparently upon the gradual diminution and final disappearance of solar light. On the other hand, *Morida*, from equal depths has its eyes unusually developed, and apparently of great delicacy. It is possible that in certain cases, as the sun's light diminishes, the power of vision becomes more acute, while at length the eye becomes susceptible of the stimulus of the fainter light of phosphorescence.—Scribner's.

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