COATING METALS AND METALLIC COM-SOUNDS.—Mesers. Morewood and Rogers have specifical their patent for improvements in the manufacture, shaping, and coating of metals, and in the means of applying heat. These improvements consist of a method of coating mine with lead; a mode of coating sine, or hard alloys of that metal, with lead, tin, or alloys thereof; the extension into sheets of ninc coated with lead, &c. by immersion; the me of sand, mixed with sal ammoniac or other snitable chloride, as a flux, when coating metals such as iron with sinc; the use of a lighter metal floating on the surface of a heavier one for coating purposes; the coating of wire, wire chains, &c.; the manufacture of tubes from black iron, and coating the same with xinc or other metal; the forming of grooves, or indentations, in the ends of cave and other gutters, by which they will be strengthened, and the facility of uniting lengths of them together increased; the producing of a flate or flutes, across the ends of plates of corrugated iron, in order to facilitate the formation of joints when several such plates are employed for covering roofs and other minilar purposes; and lastly, the fixing or em-ploying a fan or blower in the flue of a furnace for melting metals for coating purposes, at a point after or behind the fire, in order to away the smoke and products of combustion.

SINGULAR ACCIDENT ON THE NORTH KENT RAILWAY,-On Saturday last what is considered to have been a waterspout passed over, or rather poured down, a deep shaft communicating with the two-mile tunnel cut through the chalk hills extending from Frindsbury to Higham, and not only flooded the line of railway now laid down in the old line of the canal for which the tunnel was cut, but washed down both the brickwork and chalk in such quantities as completely to choke up the line, through which a passenger-train was running at the moment. Having an attentive driver, the engine was stopped just in time, and the motion reversed, so that most fortunately no

one was injured. ST. LUKE'S, CHELSEA .- RATING OF CRE-MORNE GARDENS .- On Saturday a meeting of magintrates was held at the board-room for the purpose of hearing appeals against the new assessment made by Mr. Payne, the sur-veyor, under the direction of the Poor-law Commissioners. Mr. Simpson, the proprietor of Oremorne Gardens, appealed against his 2884 to 7404. At the last sitting the appeal was adjourned by direction of the magistrates, with a view of the surveyor coming to an aminable arrangement with Mr. Simpson. The surveyor now proved the data from which he took his valuation of 7404. Mr. Simpson agreed to be assessed at 4504. but submitted that the tap ought to be separated in the assessment from the gardens, the latter being open not more than from four to five months during the season; and as the rates in Chelsen were made twice a year, that it was hardly fair to saddle him with a twelvemonth's rate upon the whole of the property. The beach, after some consideration, settled

the assessment at 500%. COUCH'S PATENT ROCK-DRILLING MA-COUCH'S PATENT BOCK-DELLING MA-CHIME.—A rock-drilling machine, now at work on Taylor's Ledge, Somerville, United States, is thus described by a Boston paper:— "The machine consists of a small upright boiler, placed on wheels so as to be easily moved from place to place; to which is attached a small stram-engine, so contrived that it can be set in any required position.

The piston-rod of the engine is made honow, and through this and the cross-head the drill passes perfectly free. In the cross-head of passes perfectly free. In the cross-nead of the engine is placed a simple apparatus for seising, turning, and throwing the drill. The motion given to the drill is the same as in hand drilling, where the churn-uru or rannes mused. The machine strikes from 150 to 200 where the 'churn-drill' or 'runner' is blows per minute, according to the activity of the of the ledge on which it was at work, it settled a 3-inch perfectly round hole at the rate of about half an inch a minute. By computation take

this machine, it is easid, will do from sixteen to twenty men's work, at an expense of from three to six dollars per day. The probable cost will be short of a thousand dollars. It is said to dzill; a horizontal hole as easily as a vertical one. Indeed, this is one mate advantage of the machine, that it can drill at any angle, from horizontal to vertical.

An ARCHITECT, like a poet, is a public character. His works are published for the world, and the world is his critic. No one receives praise more universal when it is merited; and he who labours for praise must, if he misses it, learn to endure censure. Let him who may shrink under criticism, recollect that he is thus ranked among the finer spirits of the world, and that he has thrown his lot, not as an artisan, but for the chance of lasting reproach or permanent fame. The public at large has a claim over the architecture of a country. It is common property, inasmuch as it involves the national taste and character: and no man has a right to pass himself and his own barbarous inventions as a national taste, and to hand down to posterity his own ignorance and disgrace, to be a satire and a libel on the knowledge and taste of his age .-

Highlands of Scotland.

DEATH OF ME. J. W. ALLEN.—Our readers will have heard with regret of the death of this able artist, whose works must be well known to all who visit the Suffolk-street gallery. He died at his residence in Hammersmith, on Thursday in last week, and leaves, we are sorry to say, a wife and young family

wholly unprovided for.

A NEW APPLICATION OF SCIENCE.—It is no long time since the public press of this town had to call attention to the discovery of our townsman, Mr. Spencer, namely, the de-posit of metals by electricity. Much interest was expressed at the time by the scientific and curious, for it was seen that a new power was developed; but few, if any, realised even in their own minds the extent and diversity of its commercial application. We have now become familiar with the freedom it has given to the designs of silver-plated wares; but it was little expected that, through its agency, cast-iron could be invested with the beauty of rich antique bronze. Such, however, is the fact. This invention must prove an era in the iron trade, as it opens out a field for its use in articles of ornament which it has never hitherto had.—Liverpool Mercury.

THE NEW HOUSE-DUTY. - A return to Parliament has just been issued showing the number of houses valued at 20%, and upwards, the number of those which pay house-tax at sixpence and ninepence in the pound, with other information on the same subject. In England and Wales there are 179,234 houses charged at sixpence; and in Scotland, 6,377. The amount of duty in England and Wales is 200,1821: 19s. 2d; and in Scotland 5,2881. 11s. 9d.; making 205,4711. 10s. 11d. at sixpence; while at ninepence in the pound there are 252,213 houses in England and Wales producing 463,2041. 4s. 8d.; and in Scotland, 24,095 houses at 38,3401. 17s. 1d.; making amount of duty is stated at 707,0161. 12s. 8d. The return, which was obtained by Mr. Goulburn, contains the number of houses in some of the principal towns rated at 101, and other sums.

TENDERS

. T.	Mumford, architect :-				
	Milhagton	£2,153	0	0	
	Ashton				
	Colby	2,084	0	0	
	Langridge	3,061	0	0	
	Prown				
	Beed	2.000	0	0	
	Hudkin (accepted)	1.966	0	0	

For house, at Winkfield, near Windsor. Mr. F. Steat, architect;-

CA ;→				
Brown, London	43,914	6	8	
Willshire, London	3,500	13	0	
Snowball, Slough	2,394	10	3	
Hollis, Wisdsor	2,331	10	0	
Manning, London	3,310	0	0	
Titcombe, Windsor	2,174	- 6	6	

The Contract No. 1, for Birmingham severs, has b taken by Mr. William Hill, of London. The Contract No. 2, for Birmingham severs, has b taken by Mr. Hunbscow, of Wolverhampton.

## TO CORRESPONDENTS.

"#J. C,""#H. S." #W, F." "T. D. S.", "C. S." (forwarded), "W. E." (publication seems simply to have the sefect of benefiting the under-writers), "M. E." (we do not understand the inquiry sufficiently to notwer it), "W. P. G." of p. "F. E." (we cannot allow such infinences to weigh. It is not our eastern to give remone), "Boder, Deamon (we are ausble to advise witious examination), "O. R. "'B. A." (MS. has been destroyed; we cannot undertake to return shorth communications). "O. B." (we have no reason to deabt our reporter's accuracy, "E. O." (under our mark), "P. Q." (ditto), "L.T." "L. P." "Mr. C." "G. H. S." "L.T. M. F." "Borea, "B. L. T." (not advisable), "A. H. G." "H. J. D. "Q. R. D." (we are not in a position to comply at this moment, but shall return to the building hereafter. The subject suggested is a good one, and the paper would doubtless be acceptable.)

\*\*Books and Addresses."—We have not time to point out

oks or find addresses,

NOTICE,-All communications respecting as should be addressed to the "Publisher," and not to the "Editor;" all other communications should be addressed to the EDIFOR, and not to the Publisher.

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