

AMERICAN NOTES

(From our own Correspondent.)

NEW YORK, June 18th. THE President of the United States has just approved the Act authorising the construction of a bridge across the Staten Island Sound, a few miles below New York City, known as the Arthur Kill. This practically secures the Baltimore and Ohio Railroad Company terminal facilities in this city. Commercial circles are interested in this new railway enterprise, which will certainly afford increased opportunities for more intimate commercial relations between this city and the South by rail. The broad gauge in the South has been changed to standard, and already there is an evident increase of traffic between Southern States and the Northern. A large volume of idle capital is finding numerous invitations to engage in Southern industrial, commercial, and railway enterprises, and the establishment of terminal facilities by this wealthy corporation will go far to encourage investments which have been hanging back for the past year or two. A large amount of capital will be invested in cotton mills, in mining properties, and in blast furnaces and mills in Georgia and Alabama. Agents representing syndicates will shortly go South for the purpose of making more careful investigations into the desirability of contemplated investments. The volume of business in commercial circles is increasing very slowly. Confidence exists everywhere that the summer and autumn trade will be very heavy in iron, because of the large amount of railway building to be pushed through. The railmaking capacity is 125,000 tons per month, and all mills are crowded with orders, some of them having taken orders for as late as December delivery. Prices range from 34 dols. 50c. to 35 dols. in large lots. There is also an increasing demand for foreign material, such as unwrought steel, Bessemer pig, and for bridge building material and rails, although the opportunities for placing rails in this market are very light, excepting at points far removed from mills. An improving demand for coastwise tonnage has been developed within a week or ten days. The Delaware river shipyards have contracts on hand for several very fine yachts, for passenger steamers for rivers, for schooners for coastwise service, while the locomotive builders have within two or three weeks received a good many orders for locomotive engines for delivery late this season. Prices of all kinds of material continue very low. Several car-builders in New York and Pennsylvania have contracts that will run them ninety days. Nails have declined in price to 1 dol. 80c. per keg. Merchant bar is selling at 1 1/2c. to 2c. per lb. The supply of merchant steel by the new processes is steadily increasing. The sheet and plate mills are slack of orders just at present. The structural ironmaking capacity is being increased, and several inquiries for large lots have just been received, which will probably keep most of the bridge mills busy, running full time.

NEW COMPANIES.

THE following companies have just been registered:-

Adam Eyton, Limited.

This is the conversion to a company of the business of Adam Eyton and Son, of the Lead Smelting Works, at Llanerchymor, near Holywell, and of Chester Wharf, Liverpool. It was registered on the 19th ult. with a capital of £75,000, in £10 shares, with the following as first subscribers:-

- Thomas Ford, 52, Coleman-street, auctioneer ... 1
F. Parrett, Chestnut road, Tottenham, stationer ... 1
W. B. Caulfield, 73, Ferndale-road, Clapham, shipping surveyor ... 1
H. Cruise, 12, Little Queen-street, S.W., parliamentary agent ... 1
G. W. Ruffie, 181, Blackfriars-road, engraver ... 1
C. E. Pinkerton, Richmond, law student ... 1
H. V. Cruise, 12, Little Queen-street, S.W. ... 1

The number of directors is not to be less than three nor more than seven; the subscribers are to appoint the first and act ad interim; qualification for subsequent directors, 50 shares; remuneration, one-sixth of the annual divisible profits.

Abundantia Paint Works, Limited.

This company was registered on the 19th ult. with a capital of £50,000, in £1 shares, to acquire concessions for mining and working mineral paint ochre and other substances, and to carry on the same trade. The subscribers are:-

- B. Rohrbach, Hanover, manufacturer ... 200
P. Olf, 5, Wood-street-square, warehouseman ... 5
A. Mendel-sonn, 17, Silk-street, fine art publisher ... 5
J. Biron, 71, Queen's-road, Brownswood Park, fine art publisher ... 5
C. W. Foskett, 91, Fore-street, manufacturer ... 5
C. Frohlich, 26, Manchester-avenue, E.C., merchant ... 5
F. Ruaser, 115, Long-lane, E.C., agent ... 5

The number of directors is not to be less than three nor more than seven; the subscribers are to appoint the first and act ad interim; the company in general meeting will determine remuneration.

Beeston West-end Mills Company, Limited.

This company proposes to erect buildings at Beeston, Nottingham, suitable for carrying on business as lace manufacturers. It was registered on the 23rd ult. with a capital of £10,000, in £5 shares, with the following as first subscribers:-

- J. Smith, Beeston, lace manufacturer ... 1
C. Jackson, Beeston, lace manufacturer ... 1
W. Jackson, Beeston, lace manufacturer ... 1
J. F. Doar, Beeston, lace manufacturer ... 1
W. Thornhill, Beeston, grocer ... 1
S. Stroud, Beeston, tailor, &c. ... 1
S. Kirby, Beeston, solicitor ... 1
S. Kirby, Beeston, clerk ... 1

Registered without special articles.

Electro-Metal Extracting, Refining, and Plating Company, Limited.

This company was registered on the 22nd ult. with a capital of £50,000, in £1 shares, to extract and refine metals by the electro process, and for galvanising and plating iron and other metal

goods and articles by electrolysis or otherwise. The subscribers are:-

- *Thomas F. Veasey, 76, Finsbury-pavement, mechanical engineer ... 1
J. J. Done, 10, Finsbury-square, land agent ... 1
A. Odelle, 13, Kempford-road, Kennington, clerk ... 1
B. Wyand, Edgware, clerk ... 1
A. W. Pym, 43, Ashurst-grove, Holloway, clerk ... 1
T. Fenwick, 172, Fleet-street, works manager ... 1
J. Marsh, 4, Wellclose-square, mechanical draughtsman ... 1

The number of directors is not to be less than three nor more than seven; qualification, 50 shares; the first are Messrs. F. B. Welch, C. S. Brand, Henry Aislewood, Thomas Veasey, and T. Fenwick; remuneration, £50 per annum, with an additional £50 per annum for the chairman, and one-tenth of all surplus profits remaining after 15 per cent. dividend.

Gardner Gun and Ammunition Company, Limited.

This company proposes to carry on, as successors to the Gardner Gun Company, the business of manufacturer and dealer in machine and other guns. It was registered on the 22nd ult. with a capital of £250,000, in £5 shares. Two agreements of 18th ult., the first between P. G. Whatnough and Percy F. Marks, and the second between Wm. Gardner and Percy F. Marks, are adopted. These documents, although declared to be binding upon the company, are not registered, nor do the articles of association afford any information as to the terms made with the vendors and promoters in respect of the purchase. The subscribers are:-

- W. C. Elborough, South Norwood ... 1
A. L. Elborough, Bedford Park, Croydon ... 1
T. H. Norte, 5, Leadenhall-street, advertising contractor ... 1
G. Born, Dyke-road, Brighton ... 1
C. G. R. Eames, 16, Peak-hill, Sydenham ... 1
A. C. Dockerill, 83, Winston-road, Newington-green ... 1
E. Moreton, 25, St. Margaret's-road, Brockley ... 1

The number of directors is not to be less than three nor more than eleven; the first are appointed by the subscribers; qualification, 40 shares; remuneration, £200 per annum each, and expenses.

Glendon Iron Company, Limited.

This is the conversion to a company of the business of ironmasters, smelters, and mine-owners, carried on by Edward Knapp Fisher and Edward Fisher, at Glendon, Finedon, and elsewhere in Northampton, under the style of the Glendon Iron Company. It was registered on the 23rd ult. with a capital of £60,000, in £10 shares. The subscribers are:-

- E. R. Fisher, Market Harborough ironmaster ... 1
E. Fisher, Market Harborough, ironmaster ... 1
H. S. Gee, Knighton, near Leicester, manufacturer ... 1
C. H. Davids, Banbury, land agent ... 1
W. W. Wartnerby, Market Harborough, solicitor ... 1
C. B. Fisher, Market Harborough, land agent ... 1
J. J. Mumford, Market Harborough ... 1

The number of directors is not to be less than three nor more than seven; qualification, fifty shares; the company in general meeting will determine remuneration.

Imperial Ottoman Ice Company, Limited.

This company was registered on the 21st ult. with a capital of £100,000, in £5 shares, to establish a Société Anonyme in the Ottoman Empire for acquiring the rights and privileges granted by the Sultan's firman to Salem Agha, for the working of a concession for the manufacture of ice within the limits prescribed by such firman. The subscribers are:-

- E. Turner, 41, Grosvenor-road, barrister ... 1
E. B. Robertson, Shooter's hill, physician and surgeon ... 1
Major-General O. Wilkinson, 40, St. George's-road, S.W. ... 1
R. Stripp, 24, Tarbert-road, East Dulwich-grove ... 1
F. E. Lewis, 4, The Sanctuary, S.W., merchant ... 1
J. McClear, 2, Victoria-mansions, Westminster, chemical expert ... 1
T. Dermer, 2, Victoria-mansions, Westminster, managing director of the Public Works and Contract Company ... 1

The number of directors is not to be less than three nor more than twelve; qualification, fifty shares; the subscribers are to appoint the first. The remuneration of the board is to be at the rate of £300 per annum for each director, and 10 per cent. on all net profits after payment of 10 per cent. dividend.

International Steam Coal Company, Limited.

This company was registered on the 17th ult. with a capital of £30,000, in £20 shares, to carry on colliery operations in Glamorganshire or elsewhere. The subscribers are:-

- *E. Franklin Thomas, 125, Bute-street, Cardiff, steamship owner ... 50
Jackson Powley, 125, Bute-street, Cardiff, colliery proprietor ... 50
A. J. Lusty, Cardiff Docks, colliery proprietor ... 50
W. Thomas, Aberdare, mining engineer ... 50
*T. Cory, Sketty, Aberdare, colliery proprietor ... 50
*G. Griffiths, Park House, Cardiff, colliery proprietor ... 50
R. F. Akers, 125, Bute-street, Cardiff, accountant ... 5

The number of directors is not to be less than three nor more than five; the first are the subscribers denoted by an asterisk, and Mr. T. Crawshaw, of Bonvilstone, near Cardiff; remuneration, £200 per annum to the chairman, and £100 per annum to each of the directors.

Morris Hart and Co., Limited.

This company proposes to acquire the patent and other rights granted to Messrs. E. E. Colley, W. W. Colley, and Morris Hart, for apparatus for winding, unwinding, and cutting paper for printing and other purposes, for cutting and reeling paper for telegraphic and toilet purposes, for printing, numbering, and perforating tickets, and for printing consecutive numbers; and to take over the business carried on by the vendors at 4, Coleman-street-buildings, and 40 and 41, Kirby-street, Hatton-garden, trading as the Patent Cutting and Reeling Company, and the Patent

Toilet Requisite Company. It was registered on the 19th ult. with a capital of £50,000, in £5 shares. The subscribers are:-

- C. F. Ince, 1, Church-court, Old Jewry, printer and stationer ... 1
E. G. Johnson, 41, City-road, manufacturer ... 250
*R. J. Baelz, 14, St. Mary-axe, merchant ... 250
A. Zippel, St. Mary-axe, merchant ... 1
C. Howard, 212, South Lambeth-road, solicitor ... 1
J. Seward, 39, Trinity-buildings, Borough, printer ... 1
J. P. Nurse, 17, St. George's-avenue, Tufnell Park, clerk ... 1

The number of directors is not to be less than three nor more than seven; qualification, 250 shares; the first are Sir William Henry White, C.B., Arthur Grey, H. O. White, E. G. Johnson, and Robert Baelz, and after completion of purchase, Morris Hart and W. W. Colley. The ordinary directors will be entitled to remuneration at the rate of £50 per annum each, and a further sum of £50 each for every 2 1/2 per cent. dividend over 5 per cent., but no fees are payable until 7 1/2 per cent. dividend is declared.

Jones's Annealed Concrete Company, Limited.

This is the conversion to a company of the business of cement and paving flag manufacturer, carried on by Mr. John Alcock Jones at Middlesbrough. It was registered on the 22nd ult. with a capital of £5000, in £5 shares. The subscribers are:-

- J. Gilchrist, Middlesbrough, chartered accountant ... 1
J. A. Jones, Middlesbrough, concrete manufacturer ... 1
C. J. Dobbs, Middlesbrough, engineer ... 1
E. A. Jones, Middlesbrough, iron manufacturer ... 1
J. Newhouse, Middlesbrough, draper ... 1
C. Moses, North Ormesby, architect ... 1
W. M. Hopkins, Stockton-on-Tees, accountant ... 1

Most of the articles of Table A apply. The number of directors is not to be less than three nor more than seven.

Muspratt Brothers and Huntley, Limited.

This company proposes to take over the chemical manufacturing business of the above-named firm, carried on at the Metal Extraction Works, Flint. It was registered on the 22nd ult. with a capital of £200,000, in £10 shares. The subscribers are:-

- *J. K. Huntley, 20, Hyde Park-street, alkali manufacturer ... 1
E. K. Muspratt, 31, Dale-street, Liverpool, alkali manufacturer ... 1
J. L. Muspratt, Flint, alkali manufacturer ... 1
*A. K. Howard, Northop, Flint, manufacturing chemist ... 1
A. Dyson, 42, Church-street, Flint, manufacturing chemist ... 1
C. E. Dyson, 42, Church-street, Flint, manufacturing chemist ... 1
H. C. Banister, Blundellsands, Liverpool, manager ... 1

The number of directors is not to be less than three nor more than seven; qualification, five ordinary shares; the first are the subscribers denoted by an asterisk. Mr. J. K. Huntley is appointed managing director at a salary of £1200 per annum. The remuneration of the ordinary directors will be determined by the company in general meeting.

Pure Rain water Company, Limited.

This company proposes to acquire the British and other patent rights of Henry Curzon relating to improvements in the method of filtering rain-water in its flow from roofs to tanks, and also for improvements in the method of collecting rain-water for storage, and to manufacture "Curzon's Patent High-pressure Rain-water Pipe Percolator." It was registered on the 23rd ult. with a capital of £20,000, in £1 shares. The subscribers are:-

- T. Martin Shadwell, Acton, engineer ... 1
C. E. Tremaine, 2, New Broad-street, contractor ... 1
G. Williams, 71, Claverton-street, S.W. ... 1
A. E. Tompson, 1, Broad-street-buildings, engineer ... 1
B. A. Hales, Romford, Essex ... 1
R. Spurling, 82, Collins-street, Melbourne ... 1
J. Cooper, 76, Somerleyton-road, Brixton, accountant ... 1

Silo Supply Company, Limited.

This company was registered on the 22nd ult. with a capital of £30,000, in £1 shares, to manufacture and deal in silos or apparatus for the manufacture and production of silage, and for such purposes to acquire the letters patent No. 4925, dated 15th March, 1884, granted Mr. John Moss Fletcher. The subscribers are:-

- J. Percy Leith, 8, Dorset-square ... 1
S. L. Tompkins, 3, Upper Gloucester-place ... 1
R. T. Beazley, 2, Barnes Villas, Lonsdale-road, Barnes, clerk ... 1
E. Edmonds, Bowes Park, N., patent agent ... 1
R. Keating, 24, Coleman-street, secretary to a company ... 1
W. Pannell, 47, Lansdowne-road, Queen's-road, S.E., accountant ... 1
T. Sheldrake, Levisham, Yorkshire, engineer ... 1

Registered without special articles.

St. John's Gate (Clerkenwell) Company, Limited.

This company proposes to acquire the ancient building known as the St. John's-gate, situate in the parishes of St. John and St. James, Clerkenwell, and also to purchase the advowson or right of presentation to the benefice of St. John. It was registered on the 23rd ult. with a capital of £14,000, in £10 shares. The subscribers are:-

- Sir E. H. Lechmere, Bart., M.P. Hanley Castle, Worcester ... 1
J. R. Dawes Freshfield, 5, Bank-buildings, solicitor ... 1
General J. St. George, K.O.B., 22, Cornwall-gardens ... 1
Major-General Whitworth Porter, 28, Cheniston-gardens ... 1
J. Furley, J.P., Ashford, Kent ... 1
Edwin Freshfield 5, Bank-buildings, solicitor ... 1
Robert Vigers, 4, Frederick's-place, Old Jewry, land surveyor ... 1

Registered without special articles.

Tidenham Waterworks Company, Limited.

On the 18th ult. this company was registered with a capital of £2000, in £5 shares, to erect

works for supplying water to the parish of Tidenham and other places in the counties of Gloucester and Monmouth. The subscribers are:-

- *E. W. Whalley, Chepstow, contractor ... 10
*F. Morgan, Chepstow ... 25
*H. Clay, J.P., Chepstow ... 10
G. C. Francis, Chepstow, solicitor ... 10
H. Lewis, Chepstow, draper ... 10
G. Leys, J.P., Chepstow ... 4
A. Miller, Chepstow ... 5

The first directors are Messrs. Henry Clay, H. F. Morgan, and Louis Gueret.

Universal Box Company, Limited.

Upon terms of an agreement of the 11th ult. this company proposes to purchase and work the Letters Patent No. 4686, dated 2nd October, 1883, granted to William Phillips Thompson for improvements in apparatus for use in making wooden boxes, purchased by Henry Campbell, of 11, Queen Victoria-street. It was registered on the 18th ult. with a capital of £4000, divided into 2000 A and 2000 B shares of £1 each. The B shares are allotted as fully-paid to the vendor in consideration of the purchase. The subscribers are:-

- *J. S. Burroughes, 19, Soho-square, billiard table manufacturer ... 50
*W. Bultury, 5, Pemberton-gardens, Holloway, manufacturers' manager ... 100
C. B. Ledbetter, 141, Hungerford-road, Camden-road, accountant ... 1
R. Plumbé, 13, Fitzroy-square, architect ... 10
W. J. Noad, 9, Fenchurch-avenue, insurance manager ... 10
J. Shubrook, 9, Gracechurch street, chartered accountant ... 10
W. J. Crump, 10, Philpot-lane, solicitor ... 10

The number of directors is not to be less than two nor more than three; qualification, 100 shares; the company in general meeting will determine remuneration. The first two subscribers are appointed directors.

West Coast Timber Company, Limited.

This company was registered on the 18th ult. with a capital of £25,000, in £10 shares, to acquire the Sampson-road Sawmills, Sampson-road North, Birmingham. The subscribers are:-

- *B. G. Brocklehurst, Ludlow ... 1
*J. E. Pratt, Small Heath, Birmingham, agent ... 1
*C. Winn, 30, Easy-row, Birmingham, engineer's factor ... 1
*J. M. Hale, Bristol, chartered accountant ... 1
J. J. Britton, Alcester, solicitor ... 1
T. Ravenhill, Sampson-road, N., Birmingham, timber merchant ... 1
J. M. Woodward, Redditch, artist ... 1

The subscribers denoted by an asterisk are the first directors; qualification, 25 shares; the company in general meeting will determine remuneration.

Western Traction Engine Company, Limited.

This company was registered on the 17th ult. with a capital of £1000, in £10 shares, to carry on business as carriers and traction engine proprietors. The subscribers are:-

- R. Ellis, St. Just ... 20
J. Nicholls, St. Burian, China clay merchant ... 10
P. H. Wallis, St. Just, yeoman ... 10
J. Holman, St. Just ironfounder ... 20
J. Rennets, St. Just, mine manager ... 2
S. Harvey, Lennen, farmer ... 2
F. S. Tregear, St. Just, mine agent ... 1

Registered without special articles.

THE PATENT JOURNAL.

Condensed from the Journal of the Commissioners of Patents.

Applications for Letters Patent.

** When patents have been "communicated" the name and address of the communicating party are printed in italics.

22nd June, 1886.

- 8209. FIELD OR OPERA GLASSES, A. W. Drayson, Southsea.
8210. PETROLEUM ENGINE, J. Roots, London.
8211. CUTS OF FILES, W. Machel and J. B. Tompkin, Sheffield.
8212. SOLES OF BOOTS AND SHOES, W. Brierley.-(O. Lindner, Germany.)
8213. ARTIFICIAL GRINDSTONES, &c., T. Plesner, Manchester.
8214. PREPARATION, &c., OF PAPER, W. Brierley.-(F. Leidl, Germany.)
8215. ELECTRO-PLATE PRESERVER, W. E. Bragg and W. T. Jones, Birmingham.
8216. APPLYING THE ELASTIC FORCE OF VAPOUR AS A MOTIVE POWER, &c., J. Murrie, Glasgow.
8217. SULPHIDE OF ZINC, J. H. Dennis and N. Glendinning, Liverpool.
8218. STORAGE OF GRAIN AND CEREALS, W. G. Herbert, Liverpool.
8219. MOVABLE NECK COLLAR STUDS, &c., J. Appleby, Birmingham.
8220. BOTTLES AND STOPPERS, J. Brown, Dewsbury.
8221. DRIVING OR GEARING CHAINS, R. Green, Birmingham.
8222. WOOD-TURNING, &c., MACHINES, J. W. Dulston, Rochdale.
8223. STEAM ENGINES, J. Tennent, Grangemouth.
8224. SUPPORTS FOR DRAWING BOARDS, T. and J. V. Harger, Skipton-in-Craven.
8225. ADJUSTABLE BENCH STOPS, T. and J. V. Harger, Skipton-in-Craven.
8226. SECONDARY BATTERIES, A. M. Clark.-(A. E. Peyrussou, France.)
8227. SECURING BUTTONS TO FABRICS, F. A. Smith, jun., Paris.
8228. BUTTON FASTENERS, G. W. Prentice, Paris.
8229. LAMPS, R. A. Bradshaw and J. Rutherford, London.
8230. FINDING THE VARIATIONS OF THE COMPASS, R. E. Harriss, London.
8231. LOCKING OR SECURING SCREW NUTS, G. G. Potter, London.
8232. BALANCED WHEEL FOR SEWING, &c., MACHINES, J. A. Footitt, London.
8233. FOOD FOR HORSES, &c., F. I. FitzGerald.-(R. M. Boyd, Australia.)
8234. FINISHING HORSE-NAIL PLATES, J. A. Huggett, Eastbourne.
8235. COOKING BY MEANS OF A GRIDIRON, T. James, Bristol.
8236. WIREWORK, J. Y. Johnson.-(A. Belpêche, France.)
8237. TYPE-WRITERS, C. Spiro, London.
8238. GAS LAMPS, H. G. O'Neill and the Platinum Light Company, London.
8239. PREPARING FIBROUS SUBSTANCES FOR SPINNING, W. Clissold, London.
8240. DRYING GRAIN, J. Powers, London.
8241. WEIGHT REGISTERING MACHINES, W. E. Richardson, London.
8242. BUTTER-PRINTING PRESSES, W. E. Richardson, London.

- 8243. TONGUE and NECK YOKE ATTACHMENT, R. T. Cook, London.
- 8244. DETACHING RUNAWAY HORSES FROM VEHICLES, G. Hiersmann, London.
- 8245. MECHANICAL MUSICAL INSTRUMENTS, L. Augustin, London.
- 8246. WINDMILLS, H. Knölke, London.
- 8247. COMBINED PENHOLDER and SPRING BALANCE, I. Greenbury, Glasgow.
- 8248. INSULATORS for SUPPORTING ELECTRICAL CONDUCTORS, A. R. Bennett, Glasgow.
- 8249. APPARATUS for WASHING, &c., WOOL, &c., T. Hauschel, Glasgow.
- 8250. BUTTON HOOK, &c., F. Weintraud, jun., London.
- 8251. OIL STOVES, H. Fricker.—(R. M. Wanzer, Canada.)
- 8252. SELF-LEVELLING BERTHS, A. J. Boulton.—(The Palace Marine Berth Company, United States.)
- 8253. METALLIC PACKINGS for STUFFING-BOXES, J. B. Deeds, London.
- 8254. LAMP BURNERS, A. M. Craig and C. P. Hobart, London.
- 8255. WASHING BOTTLES, A. J. Boulton.—(G. P. Goulding, United States.)
- 8256. SEPARATING and CLEANING MANILLA FIBRE, &c., H. H. Lake.—(H. Cole, H. Allen, and S. Allen, United States.)
- 8257. PHOTOGRAPHIC CAMERAS, N. Conti, London.
- 8258. PLOUGHING and PULVERISING the SOIL, R. Woodcock, London.
- 8259. NIGHT-LIGHTS, H. G. Walker, London.
- 8260. ARTIFICIAL HAND, G. Clasen, London.
- 8261. MINING MACHINES, S. B. Stine and J. V. Smith, London.

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- 8262. TRAVELLING BAND for MACHINES for COATING PHOTOGRAPHIC PLATES, A. Cowan, London.
- 8263. DIAMOND TUBE and PIPE CUTTER, W. Hewitt and T. Dineen, Leeds.
- 8264. SCOUTING FLAX, W. Henderson, Benton.
- 8265. BOLTS for LOCKS, F. Dews, Wolverhampton.
- 8266. PRINTING MACHINES, H. P. Trueman and J. G. New, Birmingham.
- 8267. GULLIES, J. Parker and T. Brook, Sheffield.
- 8268. PICKERS used in LOOMS, J. Dawson and H. Armistead, Halifax.
- 8269. MECHANICAL TOOL HOLDERS, I. A. Best and H. Best, Birmingham.
- 8270. SELF-ACTING MULES, J. Macqueen, Manchester.
- 8271. STOCKINGS and SOCKS, T. Moreley, sen., and T. Moreley, jun., Leicester.
- 8272. DRIVING SPINDLES of SPINNING MACHINERY, H. Stephenson, J. Webb, and S. Hallam, Manchester.
- 8273. ROTARY ENGINE, R. Whitehead, Heeley.
- 8274. UNPERISHABLE ILLUMINATED SIGNS, &c., G. Francis, Halifax.
- 8275. DRIVING the TUBES in SPINNING FRAMES, &c., J. H. Craven and J. Crabtree, Bradford.
- 8276. PREVENTING ISSUE of SMOKE from FURNACES, W. Briggs, Bradford.
- 8277. WARP BEAMS for WEAVING, T. Burns and F. T. Schmidt, Bradford.
- 8278. HYDRAULIC RIVETTING MACHINES, H. Berry, London.
- 8279. HYDRAULIC HAMMERS, H. Berry, London.
- 8280. LAMPS, T. C. J. Thomas, London.
- 8281. HOLDERS for CANDLE SHADES, J. Davies, London.
- 8282. STOPPERING BOTTLES, &c., A. Hands, London.
- 8283. BRUSHES, H. Besson and G. H. Kent, London.
- 8284. RECEIPT FORM, N. Bottono, London.
- 8285. COCKS, R. H. Hughes, Middlesex.
- 8286. METALLIC PIPES, W. R. M. Thomson.—(C. W. Barnett, India.)
- 8287. MACHINE for LABELLING TINS, M. B. Chambers, London.
- 8288. KETTLE BOILER, R. T. Edmunds and W. H. Edmunds, London.
- 8289. AFFIXING STANDARD BOARDS in TRAVELLING BAGS, P. C. Wilkins, London.
- 8290. BEE-HIVES, J. Dixon, Great Ayton.
- 8291. TOOLS for BEADING, &c., E. Preston, Birmingham.
- 8292. TEA-TASTING POTS, J. A. Game and M. Aflalo, London.
- 8293. METAL SCREWS, H. D. Cunningham, London.
- 8294. APPLICATION of HOT AIR, H. D. Cunningham, London.
- 8295. CASKS for STORING, &c., C. Dattah, London.
- 8296. PROTECTING BLACK LEAD, &c., PENCILS, T. H. Taylor, Manchester.
- 8297. WINDOW SASHES, R. Adams, London.
- 8298. VENTILATING TUNNELS, &c., C. H. Davies, London.
- 8299. SOLITAIRES, &c., J. E. Buchan, London.
- 8300. TIRES of PERAMBULATORS, &c., O. S. Perkins, London.
- 8301. GUIDES for CHAINS and ROPES, G. A. Kroll, London.
- 8302. ILLUMINATING LAMPS, E. J. Clayton, London.
- 8303. ELECTRIC CABLES, S. F. Shelbourne, New York, U.S.
- 8304. BATHING GLOVES, H. Richardson, London.
- 8305. FURNACES for the MANUFACTURE of WATER GAS, R. Henderson and S. Levy.—(G. H. Kohn, United States.)
- 8306. MACHINE GUNS, J. Fortaby, London.
- 8307. INDICATING APPARATUS for LOOMS, W. P. Thompson.—(Desiré Chipart, Als, France.)
- 8308. OBTAINING CHLORINE, L. Mond, Liverpool.
- 8309. OPERA, &c., GLASSES, A. M. A. Fournet, London.
- 8310. VENTILATORS, J. Tanko, London.
- 8311. FIRE-IRONS, A. M. A. Fournet, London.
- 8312. MANUFACTURE of CARBONIC ACID, P. Farinaux, London.
- 8313. TENNIS RACQUETS, J. F. Gilmore, London.
- 8314. GUTTERS, S. Watson, London.
- 8315. MACHINES for COMBING FLAX, &c., G. Stelling, London.
- 8316. EXPANSIBLE VESSEL for RAILWAY BRAKE, A. C. Boothby and C. R. Watson, London.
- 8317. DYING WOOL, W. R. Gadge.—(J. Bertrand, France.)
- 8318. COWL, S. Wallis and T. Wiseman, London.
- 8319. DETACHABLE GUM LABELS for FLOWER POTS, G. A. Bots, London.
- 8320. METALLIC ALLOY, J. Webster, London.
- 8321. STEAM ENGINE BOILER FRED PUMP, O. Lilienthal and W. Baschall, London.
- 8322. COIL BEAM GENERATORS, O. Lilienthal and W. Baschall, London.
- 8323. APPLYING ELECTRICITY to DRILLING, R. Richards, H. R. London, and W. T. W. Thackeray, London.
- 8324. CLEANING the SURFACE of IRON, A. Gutensohn and J. M. James, London.

24th June, 1886.

- 8325. SLEEPERS and CHAIRS for RAILWAYS, A. Butchart, Great Burdon.
- 8326. HYDROSTATIC ASPIRATOR, T. Caink, Malvern Link.
- 8327. HEELS of BOOTS and SHOES, &c., A. W. Wilson and B. Silver, Leicester.
- 8328. REGULATING the PRESSURE of GAS, J. Stewart, Edinburgh.
- 8329. CHANGING-BOXES for PHOTOGRAPHIC CAMERAS, A. S. Newman, London.
- 8330. HAMMERLESS DROP-DOWN GUNS, J. and S. Whitehouse, Birmingham.
- 8331. FEEDING FUEL to FIRE-PLACES and FURNACES, H. Hart, Glasgow.
- 8332. CLOCK-WINDING, &c., MECHANISM, A. C. Henderson.—(L. Lefèvre and H. Palvut, France.)
- 8333. ILLUSTRATING SEWING STITCHES, C. M. Hull, Sheffield.
- 8334. SUPPORTING SHIPS' COMPASSES, &c., G. C. Lilley, London.
- 8335. BEDSTEDS, C. W. Cole, London.
- 8336. ELASTIC PNEUMATIC HEEL for BOOTS and SHOES, A. H. Valda, London.
- 8337. SEATS, J. Scheiber and K. E. Klein, London.
- 8338. INDUCTION APPARATUS, L. Gutmann, London.
- 8339. FACING BRICKS, R. Steinau, London.
- 8340. HARROWS, W. T. Procter, London.

- 8341. PRINTING MACHINES, F. Feldmann, London.
- 8342. TURNING OVER, &c., the LEAVES of MUSIC, H. Currie, London.
- 8343. CARDS for PLAYING GAMES, T. Crane, London.
- 8344. FURNACES and FURNACE BARS, J. Naysmith, Glasgow.
- 8345. LATHE, T. Millett, London.
- 8346. DYNAMO-ELECTRIC MACHINES, A. B. Blackburn, London.
- 8347. WHEELS, G. H. Rayner, London.
- 8348. PURIFYING COAL GAS, J. Hammond, London.
- 8349. CONSUMING SMOKE, &c., in FURNACES and FIRE-PLACES, A. M. Clarke.—(G. E. Wéry, France.)
- 8350. SLIDE VALVES for STEAM ENGINES, W. P. Thompson.—(A. Macmillan, Japan.)
- 8351. READY-RECKONERS, &c., T. M. Reid, Liverpool.
- 8352. PASTEBOARD BOXES, B. Rückert, Liverpool.
- 8353. RELIEF PATTERN INDIA-RUBBER PLATES, A. J. Boulton.—(L. Kayser, France.)
- 8354. VELOCIPEDS, W. Smith and G. Hicking, London.
- 8355. ARMATURE for DYNAMO-ELECTRIC MACHINES, C. E. L. Brown, London.
- 8356. AIR VALVES, A. J. Boulton.—(L. Kayser, France.)
- 8357. MANUFACTURE of COMPRESSED FUEL, S. Butler, London.
- 8358. REFRACTORY LININGS for FURNACES, T. Twynam, London.
- 8359. REFRACTORY LININGS for FURNACES, T. Twynam, London.
- 8360. CHURNS, E. H. Toulmin, London.
- 8361. STEAM ENGINES, H. H. Lake.—(A. F. Devereux, United States.)
- 8362. TOILET EWERS, Messrs. Oetzmann and Co., London.

25th June, 1886.

- 8363. CROCODILE LEATHER FLOOR COVERING, J. Hurty, London.
- 8364. WOOL WASHING MACHINES, E. and A. Peltzer, Manchester.
- 8365. REGULATING the SPEED of MOTIVE-POWER ENGINES, W. M. Rye and J. Dearden, Manchester.
- 8366. PLUG COCKS, S. W. Smith, Coventry.
- 8367. MACHINERY for CRUSHING MINERALS, T. Nicholson, Pearnan, and A. J. Harrison, Sheffield.
- 8368. DETONATORS, &c., T. Johnston and G. Smith, Glasgow.
- 8369. PROPELLERS, J. Hutton, Glasgow.
- 8370. MANUFACTURE of TRINITY WOOL YARN, &c., E. Wilkins, Yorkshire.
- 8371. PREVENTING the CONSTANT FRICTION of the RUDDER HEAD of SHIPS, W. Hewitt and T. Dineen, Leeds.
- 8372. LAYING NON-SLIPPERY ASPHALTE ROADS, H. H. Whitaker, London.
- 8373. FIRE-PROOF CONSTRUCTION, H. H. Whitaker, London.
- 8374. SAFETY LAMPS, J. Laidler, Durham.
- 8375. FILTERING FUNNELS, W. C. Nickels, London.
- 8376. ELECTRO-MOTIVE FORCE CELLS, &c., A. Muirhead, London.
- 8377. SAFES for PRESERVING FOOD, W. K. Birkinshaw, Sheffield.
- 8378. TOOTH BRUSHES, F. L. Lawrence, London.
- 8379. SECONDARY BATTERIES, A. Reckanzann, London.
- 8380. HOISTING ENGINES, J. Rothwell, London.
- 8381. EGG BOILERS, J. Griffin, London.
- 8382. VENETIAN BLINDS, L. F. Balek, London.
- 8383. SAFETY SADDLE for HORSE RIDING, J. C. King, Uxbridge.
- 8384. WELLS of TEA-KETTLES, G. Clark, London.
- 8385. SOLDERING, A. J. Boulton.—(J. F. Ross, Canada.)
- 8386. CASES for STORING BOTTLES, &c., F. Myers, Liverpool.
- 8387. TAMPING BLAST HOLES in MINES, G. Francis, Liverpool.
- 8388. POLE BINNACLE LAMP, W. S. Wallace, Wolverhampton.
- 8389. AUTOMATIC DAMPERS for FIRE STOVES, H. S. T. Biscoe, London.
- 8390. COATING SHEET IRON with ZINC, R. Heathfield, London.
- 8391. SUPPORT for PLANTS, C. Groombridge and J. P. Rickman, London.
- 8392. STEPS, J. Stavert, London.
- 8393. UNCOOKING BOTTLES, R. G. Barnes, London.
- 8394. VENTILATION of WATERPROOF GARMENTS, J. Neville, Enfield.
- 8395. ELECTRICAL APPARATUS for TAKING MARINE SOUNDINGS, O. E. Woodhouse, F. L. Rawson, and C. S. Shell, London.
- 8396. CLEATS for SECURING STRINGS, W. Heatley, London.
- 8397. COATING SHEET IRON, W., J., and W. H. Baker, London.
- 8398. WASHING BOTTLES, H. W. Hennes, London.
- 8399. LAMP STOVES for HEATING PURPOSES, E. A. and J. D. Rippingille, London.
- 8400. SEWING MACHINES, N. Browne.—(E. Frankenberg, Germany.)
- 8401. RETAINING WALLS of RESERVOIRS, &c., T. Fraser, Glasgow.
- 8402. FASTENERS for STAYS, F. R. Baker, London.
- 8403. DELIVERY of a given QUANTITY of LIQUID in EXCHANGE for an EQUIVALENT in COIN, P. Everitt, London.
- 8404. INDICATING the FORCE of a BLOW, P. Everitt, London.
- 8405. DRIVING APPARATUS, E. Robinson, London.
- 8406. ELASTIC TIRES, C. C. Cotton, London.
- 8407. FIRE GRATES, &c., for STEAM BOILERS, A. Tolhurst, C. A. Glazbrook, and A. Philbey, London.
- 8408. ALUMINIUM CHLORIDE, Gustavus, Baron de Overbeck.—(Hector de Grouilliers, Germany.)
- 8409. LINING of TEXTILE FABRICS for THICKENING, &c., the SAME, H. H. Lake.—(T. Lamb and J. D. Morley, United States.)

26th June, 1886.

- 8410. GRINDING KNIVES of MOWING, &c., MACHINES, H. H. Lake.—(C. G. Bulem, United States.)
- 8411. TREATMENT of REFUSE LIQUIDS of GARROSES, &c., C. Georff, London.
- 8412. TRANSFERRING CASH from one PART of a SHOP to ANOTHER, H. H. Lake.—(The Kennedy Electrical Cash Carrier Company, United States.)
- 8413. INCANDESCENT ELECTRIC LAMPS, J. G. Lorrain, London.
- 8414. MAKING CLOCKS run without ATTENDANCE, &c., E. Shanley, Bootle.
- 8415. CORD CONTRIVANCE by which PASSENGERS can COMMUNICATE with the COMPANY'S SERVANTS, G. W. Pope, Diss.
- 8416. WOOL COMBING MACHINES, T. Speight, Bradford.
- 8417. SILK WALL DECORATION, L. Dondy, Liverpool.
- 8418. MAKING BRICKS, &c., W. G. Wodson and R. Skeoch, London.
- 8419. MAKING SPEAKING INSTRUMENTS SEMI-ACOUSTIC, E. Dunn, Stafford.
- 8420. ANTISEPTIC SALT in BREWING, A. Boake and F. G. A. Roberts, Stratford.
- 8421. ENABLING SHUNTERS to COUPLE, &c., J. Jempson, Manchester.
- 8422. GAS COMPRESSORS, J. Lyle, Glasgow.
- 8423. LUBRICATORS, R. Hutchison, Glasgow.
- 8424. TESTING MINERS' SAFETY LAMPS, A. R. Ormiston and J. Ormiston, Glasgow.
- 8425. SIZING LOOSE COLOURED WALL PAPER, &c., J. T. Sawney and C. E. Quick, Hull.
- 8426. COAL-SAVERS for STOVE-GRATES, T. Redmayne, Sheffield.
- 8427. STOVE, T. W. Roberts, Bramley.
- 8428. EYES for ROPES, D. Müller and E. Kamin, Berlin.
- 8429. BRAKING and STARTING GEAR for VEHICLES, W. Thompson, Glasgow.
- 8430. TWIN WATER DIRECTORS, J. Cockburn, Edinburgh.
- 8431. PORTABLE PHOTOGRAPHIC LAMP, J. M. Copeland, London.
- 8432. DRYING and HEATING STOVE, T. Cudlipp, London.
- 8433. BINDER for PAPERS, E. L. Shipman and J. D. G. Shipman, London.

- 8434. SPRINGS for CARRIAGES, J. Mitchell and W. Codrington, Sheffield.
- 8435. SAVING of LIFE from FIRE, W. Fitzsimons, London.
- 8436. MOTIVE-POWER ENGINES, G. W. Weatherhogg, Swindery.
- 8437. PAD for RENOVATING HATS, W. G. Speck and F. Longland, London.
- 8438. FOLDING BOXES, N. B. Chadwick, Middlesex.
- 8439. FASTENER to FOLDING BOXES, N. B. Chadwick, Middlesex.
- 8440. APPARATUS for COMMUNICATION BETWEEN STATIONS and SIGNAL BOXES, W. Rice and W. Sykes, London.
- 8441. PRODUCING HEAT by GAS, J. Dredge, London.
- 8442. SUBSTITUTES for INDIA RUBBER, &c., F. Greening, London.
- 8443. COMPOSITION for TREATING LEATHER, T. N. Ashman, London.
- 8444. SHIPS, F. G. Mareglia, London.
- 8445. STOPPING, &c., CYLINDER LETTER-PRESS PRINTING MACHINES, C. T. Watson and B. Thompson, London.
- 8446. COATING ROPE with PAINT, &c., T. U. Oliver, West Bromwich.
- 8447. TREATMENT of RHEA or CHINA GRASS, W. Heilgers.—(J. E. D. Wise, India.)

28th June, 1886.

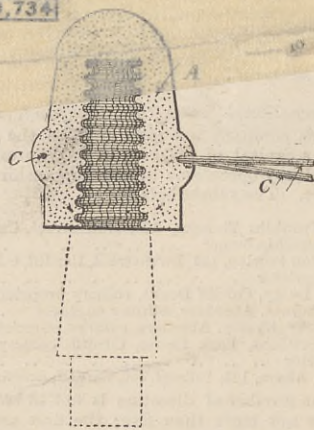
- 8448. STONE BREAKING, &c., MACHINES, C. Mason and A. Hill, Leicester.
- 8449. WINDING-UP APPARATUS for LACE, &c., MACHINES, R. Mansfield and A. Goddard, Nottingham.
- 8450. TILTING BARRELS, &c., W. Greenwood, Bristol.
- 8451. HYDRAULIC MOTORS or WATER ENGINES, H. Hale, Louth.
- 8452. AUTOMATIC WINDOW SASH FASTENER, R. W. Thompson, Newcastle-on-Tyne.
- 8453. SECURING the HANDLES of TABLE CUTLERY, W. B. Hatfield and C. Wingfield, Sheffield.
- 8454. CASTERS, G. Moore and A. L. Stamps, Birmingham.
- 8455. LET-OFF MOTION for LOOMS used in WEAVING, J. Longton, Lancashire.
- 8456. CASEMENT FASTENERS, &c., E. V. Bailey and C. Mackey, Bloxwich.
- 8457. LOCK NUT, G. H. Wills, London.
- 8458. STEAM, AIR, GAS, and WATER PISTONS, R. Robinson, Gateshead.
- 8459. PORT LIGHT for SHIPS, J. Milne, Sen., Bristol.
- 8460. PRESS for FRAMING, &c., HATS, J. Bevan, Manchester.
- 8461. STEAM ENGINE INDICATORS, E. Morton, Manchester.
- 8462. CULTIVATING, &c., HIGH LANDS, J. N. Stovin, Lincoln.
- 8463. LATCHES, W. H. Horn, London.
- 8464. RESERVOIR, &c., GAUGES, G. F. Deacon, Liverpool.
- 8465. PICKERS of LOOMS for WEAVING, C. Vickers, Leeds.
- 8466. HATS, J. H. Neave, Liverpool.
- 8467. OPENER for BOTTLES, W. G. Walker (for and on behalf of the Aire and Calder Glass Bottle Works), London.
- 8468. PRODUCING PEPTONE from NUCLEO-PROTEINES, W. Merck, London.
- 8469. MAKING CHARCOAL from SLUDGE, F. H. Danchell, London.
- 8470. CYCLES, G. Butler, London.
- 8471. ELECTRIC LAMPS, H. W. Rhoads, Halifax.
- 8472. WATER TAP VALVES, J. Kelly, London.
- 8473. WORKING GAS, &c., STOP COCKS, L. Lennerts, London.
- 8474. APPARATUS for BURNING GAS TAR, J. Heydon, Mansfield.
- 8475. ELECTRIC ALARMS, M. A. and H. A. Israel, London.
- 8476. TWIST LACE FABRICS, A. and F. H. Lees, London.
- 8477. MIXING PLASTIC MATERIALS, W. Kent and C. Cope, London.
- 8478. HORSESHOES, J. P. Bryce, London.
- 8479. WIRE FENCES, F. B. W. Malet, London.
- 8480. MEDICINE CASE, J. J. Stephens, London.
- 8481. RETORT COVERS, H. H. Salomons, London.
- 8482. PUMP, H. Field, London.
- 8483. FIRE-BARS, &c., H. Ough, London.
- 8484. PURIFYING GAS, G. Symes, London.
- 8485. HINGES, R. F. Brittain, London.
- 8486. VAT, H. J. Haddan.—(W. Worn, Sweden.)
- 8487. BUFFERS, I. A. Timmis, London.
- 8488. APPARATUS for ADMINISTERING MEDICINE, A. Jacobelli, London.
- 8489. WASHING MACHINES, R. C. Annand, London.
- 8490. BOXES, C. A. Maynard, London.
- 8491. TREATING ALUMINOUS MINERALS, G. Baron de Overbeck.—(H. de Grouilliers, Germany.)
- 8492. AXLE, W. W. Horn.—(R. McLaughlin, Canada.)
- 8493. PAPER PULP, A. Wilkinson, London.

SELECTED AMERICAN PATENTS.

(From the United States Patent Office official Gazette.)

- 340,734. ELECTRIC WIRE INSULATOR, Bert Seaboldt, Salt Lake City, Utah.—Filed January 27th, 1886. Claim.—(1) The combination of an insulating knob, a tie wire encircling the same, and having its ends adapted to support a line wire, and a covering for the tie wire, consisting of a plastic insulating and waterproof material joined to the body of the insulator knob, substantially set forth. (2) The combination of

340,734



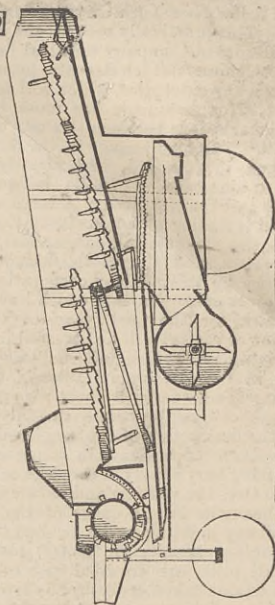
an insulating knob and a tie wire, the knob being formed of a plastic insulating material and inclosing the wire, substantially as set forth. (3) The combination of the knob A, the wire C, encircling the same and inclosed, and the line wire supported by the wire C, substantially as set forth.

- 340,899. THRASHING AND SEPARATING MACHINE, Frederick Strobel, Marion, Ohio.—Filed December 10th, 1885.

Claim.—(1) In a thrashing machine, the combination, with the thrashing cylinder and concave, of a rearwardly and upwardly curved grate extending from the rear edge of the concave to a point above the horizontal plane of the axis of the cylinder, and a substantially vertical deflector secured to the upper edge of the grate and facing the cylinder discharge, as and for the purpose shown and set forth. (2) In a thrashing machine, the combination of a casing having a bulge in its top to the rear of the cylinder, the cylinder and concave, a grate curved rearward and upward from the rear edge of the concave to a point above the hori-

zontal plane of the axis of the cylinder, a substantially vertical deflector suspended from the upper edge of the grate and facing the cylinder discharge, and a shaker to the rear of the grate, as and for the purpose shown and set forth. (3) In a thrashing machine and separator, the combination, with a crank shaft having two double cranks at the ends and formed with two

340,899

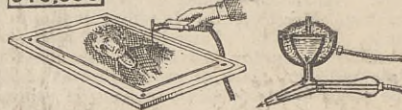


pairs of stepped cranks diametrically opposite to them, the said stepped cranks forming each a larger and a shorter crank, of a forward rack, pitmen pivotally connecting it with the larger of the stepped cranks, a rear rack, pitmen or arms pivotally connecting it with the outer cranks, and a grain pan having arms pivoted to the smaller cranks, as and for the purpose shown and set forth.

- 340,550. METHOD of ORNAMENTS GLASS and OTHER SURFACES, Edwin L. Brown, Chicago, Ill.—Filed September 28th, 1885.

Claim.—(1) The process of ornamenting the surfaces of glass, stone, metal, or other equivalent material by first delineating the design or picture thereon by means of a jet or spray of sensitised gelatine or equivalent resistant substance or material, and, secondly, submitting the surface so prepared to the action of a sand blast or other known abrading or etching process,

340,550

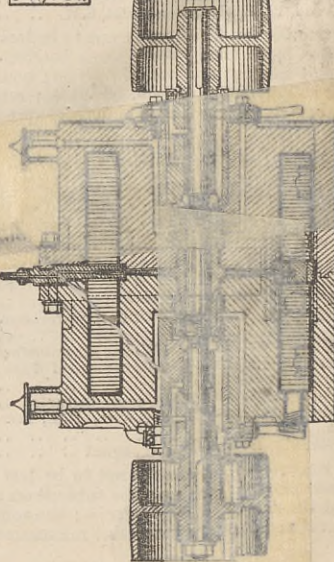


substantially as specified. (2) Glass, stone, metal, or other equivalent material, the surface or surfaces of which are ornamented by drawing the design or picture thereon by means of a jet or spray of sensitised gelatine or equivalent resistant substance or material, and afterward subjected to the action of a sand blast or other known abrading or etching process, substantially as shown and described.

- 341,097. UNIPOLAR DYNAMO-ELECTRIC MACHINE, Sebastian Ziani de Ferranti, West Kensington, County of Middlesex, England.—Filed October 6th, 1884.

Claim.—(1) In the construction of dynamo-electric machines, the combination of a, two cylindrical magnet pole-pieces set face to face and with an insulated conducting coil wound around the circumference of each pole piece, so that one shall be north, the other south, when an electric current is passed through the coils; b, a disc of copper or other such-like good conducting and non-magnetic metal mounted upon an axis concentric with the pole-pieces, so that it may be revolved between them, and c means for leading off the radial current set up in the disc from its axis and its circumference. (2) In the construction of dynamo-electric machines, the combination of a, two cylindrical magnet pole-pieces set face to face and with an insulated conducting coil wound around the

341,097



circumference of each pole-piece, so that one shall be north the other south when an electric current is passed through the coils, and with the outermost ends of the two cylindrical pole-pieces connected the one to the other, so as to form thereon a horseshoe magnet; b, a disc of copper or other such-like good conducting or other non-magnetic metal mounted upon an axis concentric with the pole-pieces, so that it may be revolved between them, and c means for leading off the radial current set up in the disc from its axis and its circumference and for conducting the said current through the coil of the magnet pole-pieces. (4) The combination of the revolving metallic disc, the circular metallic trough or casing surrounding it and containing mercury or other liquid, and means for indicating the height of the liquid in the trough or casing, substantially as described.