

STEEL WIRE ROPES,
 HOUGHTON'S LANG'S LAY



For Collieries, Mines, Aerial Ropeways, Cable Tramways, Ploughs, General Transmission, Hoisting and Haulage Purposes. **SPECIALLY FLEXIBLE AND DEAD LAD** FOR CRANES, CAPSTANS, PIT SINKING, &c.

GALVANIZED STEEL Trawling Warps, Hawsers, Lanyards, Running and Standing Rigging.

Flexible Cords and Ropes for all Purposes. Galvanized signal and Fencing Strand.

CAGE CONDUCTORS AND AERIAL CARRYING ROPES.

H.C. COPPER ROPE LIGHTNING CONDUCTORS.

Special facilities for supplying any Length or Construction of

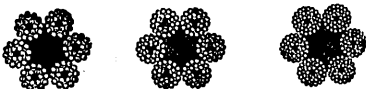
ROUND OR FLAT ROPES.

MY PROCESS OF Galvanizing Hard Plough and Patent Wire obviates any harmful action upon the Steel.

W. D. HOUGHTON,
 Sankey Wire Mills & Wire Rope Works, Warrington.

Manufacturer of Round Steel Drill Wire, Patent Steel Music Wire, Finion Wire for Clocks, Cycle Steel Spring Wire, Steel Cycle Spokes, Headed and Bent.

Telegraphic Addresses: "Houghton," Sankey Bridges. "Torsion," London. "Houghtons," Glasgow. A B C Code.



STEEL ROPE WIRE
 HOUGHTON'S PLOUGH & PATENT



By its extensive use has become established as the

VERY BEST IN THE MARKET.

Made from SUPERIOR CAST STEEL, and with careful and experienced supervision in every department of the manufacture, it is specially adapted for

COLLIERY, PLOUGH, TRAMWAY, BRIDGE, HAWSER, And other purposes where Great strength and toughness are required.

It was extensively used in establishing the reputation of the LANG PATENT ROPE, as verified by the following TESTIMONIAL:—

W. D. HOUGHTON, Esq., WARRINGTON. 10th July, 1897.

DEAR SIR, I think that very few in the Wire Rope trade have passed so much of your Wire through their hands as I have done during the thirty years I have been connected with Wire Rope making.

I always found your Patent Crucible and Plough Steel Wire of the very highest quality, as proved by the elaborate system of testing, to which the Wire was subjected by myself and under my supervision, particularly in torsion, bending, tensile strength, and general uniformity. I remain, yours truly,

JOHN LANG.

(17)

RYLANDS BROTHERS, LIMITED,
 WARRINGTON,
 MANUFACTURERS OF ALL KINDS OF...
IRON & STEEL WIRE.

Specialties...
 Specially Prepared Tinned Steel
 Mattress Wire for Mattress
 Makers.
 Coppered Steel Spring Wire
 for Spring Makers, &c.
 Special Wire for Rivet Making.

TRADE



MARK.

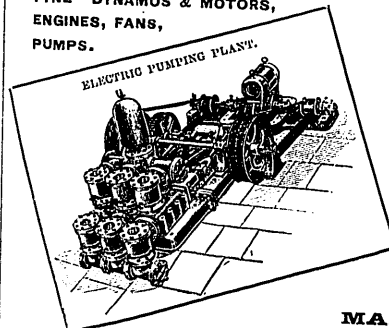
Barbed Fencing Wire.
 Fencing and Signal Strand.
 Best Telegraph and Telephone
 Wire.
 Wire Ropes, all Qualities, for
 Mines, Ships, &c.

A.D. 1805.

GALVANIZED WIRE NETTING, Accurate Mesh, Gauge, Width, Length and Standard Weights guaranteed.
 COPPERED SPRINGS, full Height and Gauge guaranteed, for Upholsterers, &c.
SASH CORD, PICTURE CORDS, CLOTHES LINES, &c.

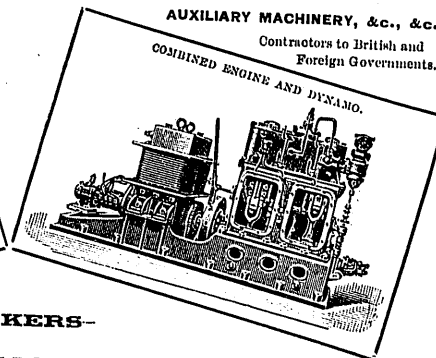
ELECTRIC LIGHTING
 AND
Transmission of Power Machinery.

"TYNE" DYNAMOS & MOTORS,
 ENGINES, FANS,
 PUMPS.



ELECTRIC PUMPING PLANT.

AUXILIARY MACHINERY, &c., &c.
 Contractors to British and
 Foreign Governments.



COMBINED ENGINE AND DYNAMO.

MAKERS—

ERNEST SCOTT & MOUNTAIN, L^D,
 Electrical and General Engineers,
 CLOSE WORKS, NEWCASTLE-ON-TYNE, ENGLAND.

LONDON OFFICE: 20, New Bridge Street, Blackfriars, E.C.

Telegraphic Address:—"ESCO, NEWCASTLE-ON-TYNE."