

Recd 16/4 3-10-95
I 20/4/92

ORDINARY, MS.

<i>Public</i> DEPARTMENT. G.O., DATED 14-4-92 No. 259.

INDEXED.

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[Despatch Abstract.]

Recording letter from the G. of S. for-
warding copies of Alphabetical lists of applicants
for exclusive privilege for inventions connected
with Pankah-pulling & Indigo manufacture 1589/90

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with Pankah-pulling & Indigo manufacture 1887/90

Public Dept.

BACK PAPER, No.

OF 18

rom

The Govt. of India.

Res: & Agil. Dept.

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Order of 14 April 92 No. 2

Recorded.

READ AGAIN ORDER OF GOVERNMENT, DATED
18, No. MISCELLANEOUS.

FURTHER PAPER, No.

OF 16

No. 862 P

J.B.
12/4.

Dated 1st } April 1892
Recd by }
Dept }

Encls: 4 copies.

Forwarding four copies
of Alphabetical lists of applicants
for exclusive privilege for inventions
connected with punkah pulling and
digo manufacture (1889-90)

ENCLOSURE

CURRENT No.

STATEMENT WITH DITTO.

ORDER OF GOVERNMENT.

A A

LETTER OF GOVERNMENT.

STATEMENT WITH DITTO.

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IN ORIGINAL (not paged).

N.B.—

A = Copy in full.
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All communications relating to the Inventions and Designs Act, 1888, should be addressed to the Revenue and Agricultural Department at Calcutta.

No. 862 P.

FROM

Secretary to the Government of India,

TO The Chief Secretary to the
Government of Madras

Revenue and Agricultural
Department.
(Patents.)

Calcutta, the 1st April 1892.

Sir

I am directed to forward for record
the accompanying copies of Alphabetical lists
of applicants for exclusive privilege for inventions
connected with Pankah pulling and Indigo
Manufacture 1889/90.

I have the honor to be
Sir

Your most obedient servant
Wm. Ross, Leut Col. R.E.
For Secretary to the Government
of India

Wm. Ross

Name.	Subject of invention.	Register No.
Olpherts, R. . . .	Improvements in the means or apparatus for oxidizing indigo.	221 of 1886.
Olpherts, R. . . .	Improvements in, or relating to, indigo presses	222 of 1886.
Olpherts, R. . . .	Improvements in obtaining colouring matters from the indigo plant.	62 of 1887.
Olpherts, R. . . .	Improved process for producing indigo green from the indigo plant.	168 of 1887.
Olpherts, R. . . .	Improvements in straining tables employed in obtaining colouring matters from the indigo plant.	3 of 1888.
Olpherts, R. . . .	Improvements in obtaining colouring matters from the indigo plant.	34 of 1888.
P		
Parry, A. . . .	A press suitable for compressing tea, indigo, etc., into cakes or blocks.	78 of 1885.
Parry, A. . . .	Invention for pressing tea, indigo, etc., into cakes or blocks.	127 of 1885.
Parry, A. . . .	Improved machine for cutting and stamping indigo cakes or slabs of indigo.	100 of 1889.
R		
Ranking, G. S. A. . .	Facilitating and expediting the process of indigo manufacture and increasing the yield of the dye.	141 of 1881.
Robinson, R. A. . .	Improvements in machinery to be used in the manufacture of indigo.	195 of 1864.
S		
Sawrey, J. S., and T. M. Collet.	Improvements in apparatus for the elimination from water of matters whether in suspension or solution, precipitation, and recovering of indigo from indigo water.	103 of 1885.
Schrottky, E. C. . . .	Improvements in indigo manufacture . . .	23 of 1879.
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Schrottky, E. C. . . .	Improvement of indigo manufacture . . .	95 of 1881.
Schrottky, E. C. . . .	Improvement of indigo manufacture . . .	88 of 1882.
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Schrottky, E. C. . . .	Improvement of indigo manufacture . . .	77 of 1884.
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Shillingford, F. A. . .	Improvements in indigo boilers and the setting up of such boilers with suitable flues in masonry for boiling indigo fecula.	52 of 1887.
Shillingford, F. A. . .	Improvements in lever presses with improved press boxes to suit the same for pressing indigo fecula.	210 of 1887.
Shirreff, A. C. . . .	Improvements in the manufacture of indigo and apparatus therefor.	153 of 1885.
Smith, C. W. . . .	Improvements in the extraction of indigo and other similar substances from plants containing such substances.	649 of 1872.
Stalhart, J. . . .	Increasing the produce of indigo in process of manufacture.	1 of 1859.
Stobie, W. C. . . .	An improved "Planter" drill for sowing indigo seed.	28 of 1878.
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Tytler, F. W. . . .	Production of green indigo direct from the indigo plant.	178 of 1887.
Tytler, F. W. . . .	Increasing the quantitative production of indigo-blue from the indigo plant as now grown in India.	179 of 1887.
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Tytler, F. W. . . .	Crushing or bruising the indigo plant, called "Tytler's indigo plant crusher."	239 of 1887.
Tytler, F. W. . . .	A new process of obtaining a new colouring substance from the indigo plant.	20 of 1888.
Tytler, F. W. . . .	An improved process of indigo manufacture . . .	40 of 1888.
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Wynschenk, J. A. . . .	Patent indigo ferment metre . . .	316 of 1890.

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Maanen, P. J. V.	A new method of drying indigo and other produce at a low temperature by the circulating properties of heated air.	112 of 1882.
MacDonald, A. J.	Improvements in the manufacture of indigo by the application of electricity.	10 of 1889.
Macnaghten, E. R.	Improvement of indigo manufacture and for the increase of produce during such manufacture.	79 of 1877.
Macnair, G., and W. Sherriff	Improvements in the process of the manufacture of indigo.	32 of 1860.
Manners, H.	Metal indigo cake cutting frame	47 of 1888.
Martin, T. A.	An improved method of manufacturing indigo, called "Martin's improved process of indigo manufacture."	12 of 1888.
Martin, T. A.	A machine for crushing indigo whilst water is being played on the same.	43 of 1888.
Martin, T. A.	Improved process for increasing the produce of indigo blue from a given quantity of plant.	...
Mead, Captain C. J.	Improvement in the manufacture of indigo	236 of 1865.
Michea, P. P. F.	Increasing the production and improvements in the manufacture of indigo from the indigo fern.	65 of 1875.
Michea, P. P. F.	Increasing the production of indigo-blue from the indigo fern and purifying it during the process of manufacture.	65 of 1876.
Michea, P. P. F.	Complete separation and conversion of the Indican of the indigo fern and increasing thereby, in the presence of alkalies and rapid oxidation the production of indigo.	97 of 1880.
Michea, P. P. F.	Complete utilization of split up Indican and its derivatives, as also other indigo producing compounds in the plant for the formation of indigo-blue in the presence of ammonia and other alkalies and oxygen.	181 of 1882.
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Nickels, C.	Utilizing the waste water from indigo vats, etc.	25 of 1880.
O		
O'Brien, G.	Beating and airifying indigo and other liquids.	279 of 1889.

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Olpherts, F. M.	Improvements in the manufacture of indigo and in the means or apparatus employed therein.	90 of 1886.
Olpherts, R.	Improvements in indigo presses and in clothes to be used therewith.	447 of 1869.
Olpherts, R.	Improvements in presses for pressing indigo or other substances.	565 of 1871.
Olpherts, R.	Improvements in presses for pressing indigo or other substances and improved cutting devices to be used in connection therewith.	568 of 1871.
Olpherts, R.	Improvements in the preparation of indigo and in apparatus for the purpose.	581 of 1871.
Olpherts, R.	Improvements in the preparation of indigo and in apparatus for the purpose.	665 of 1872.
Olpherts, R.	Improvements in the preparation of indigo	821 of 1874.
Olpherts, R.	Improvements in, or applicable to, presses for pressing indigo or other substances.	829 of 1874.
Olpherts, R.	Improvements in the means or apparatus for pressing indigo.	47 of 1877.
Olpherts, R.	Improvements in machinery for pressing indigo or other substances.	48 of 1877.
Olpherts, R.	Improvements in constructing and working indigo presses.	75 of 1877.
Olpherts, R.	An improvement in the process of pressing indigo or other substances and in the means or apparatus employed therein.	34 of 1878.
Olpherts, R.	Improvements in the process of pressing indigo or other substances and in the means or apparatus employed therein.	57 of 1878.
Olpherts, R.	Improvements in the manufacture, pressing and cutting of indigo and in the apparatus employed therein.	15 of 1879.
Olpherts, R.	Improvements in indigo presses	39 of 1881.
Olpherts, R.	Improvements in the manufacture of indigo and in the means or apparatus employed therein.	16 of 1882.
Olpherts, R.	Improvements in obtaining colouring matters from the indigo plant.	161 of 1882.
Olpherts, R.	Improvements in, or relating to, the transporting of the indigo plant and to the obtaining of colouring matter therefrom.	198 of 1886.

LIST OF PATENTEES AND APPLICANTS FOR PATENTS

Name.	Subject of invention.	Register No.
Butler, A.	An improvement in the apparatus required for the manufacture of indigo.	11 of 1877.
Butler, A.	An improvement in that portion of the manufacture of indigo that relates to the heating of the maul after it leaves the beating vats, so that the waste steam is utilized for heating the indigo.	90 of 1880.
C		
Cave, R. H.	Improvements in, and connected with, indigo and other boilers.	207 of 1889.
Cave, R. H.	An improvement in the process of indigo manufacture.	232 of 1889.
Cantwell, E. L.	Better manipulation and oxidation of the fecula obtained from the indigo plant.	73 of 1875.
Carriek, H.	Improvements in the means of beating indigo in vats by machinery.	173 of 1863.
Clarke, J.	Expressing water from indigo or similar products.	76 of 1885.
Collet, T. M., and J. S. Sawrey.	Improvements in apparatus for the elimination from water of matters whether in suspension or solution, precipitation, and recovering of indigo from indigo water.	103 of 1885.
Coryton, R. W., and R. C. Brown.	Stretching and adjusting the sheet in indigo presses.	53 of 1887.
Coventry, B.	Improvements in the manufacture of indigo	47 of 1885.
D		
Dé Eerens, M. F. J.	Improvements in the manufacture of indigo	2 of 1878.
E		
Elliott, J. (Joseph Hunt)	An improved indigo steeping vat valve	44 of 1883.
Elliott, J. (Joseph Hunt)	Combined drill rake and furrow leveller for sowing indigo or other seeds.	123 of 1883.
Elliott, J. (Joseph Hunt)	An improved indigo press screw nut	176 of 1883.
Elworthy, H. S.	A novel method and application of centrifugal force or power for oxidizing or beating indigo liquor.	53 of 1888.
Elworthy, H. S.	A novel method and application of centrifugal force or power for cleansing and pressing indigo.	55 of 1888.

FOR INVENTIONS CONNECTED WITH THE MANUFACTURE OF INDIGO.

Name.	Subject of invention.	Register No.
G		
Geneste, C. J., and T. Akitt	Improving the quality and increasing the production of indigo from the indigo fere by the use of salts of ammonium in the process of manufacture.	154 of 1886.
Geneste, C. J.	An improvement in the method of oxidizing the liquor obtained by steeping the indigo plant in the manufacture of indigo.	2 of 1888.
Geneste, C. J., and T. Akitt	Increasing the yield of indigo from the indigo fere by the use of boric acid in the process of manufacture.	39 of 1888.
Geneste, C. J.	Improving the manufacture of indigo from the green or dried plant by the use of certain oxidizing agents in the beating process.	99 of 1888.
Geneste, C. J.	Making ammonia for use in the manufacture of indigo.	135 of 1888.
Geneste, C. J.	Oxidizing indigo liquor for the production of indigo by bringing the indigo liquor in the form of a finely divided spray into contact with atmospheric air.	184 of 1889.
Grey, E. J.	Manufacturing indigo without resorting to the usual process of beating.	651 of 1872.
Gwyther, E.	Beating liquid indigo in vats by means of machinery.	100 of 1862.
H		
Hill, T. S.	The more complete extraction of the Indican of the indigo fere and the increase of the quantity of fecula or colouring matter obtained from the indigo plant by crushing the plant before steeping.	179 of 1882.
Lee, J. B.	Improvements in the method of extracting indigo from the raw indigo plant.	322 of 1889.
Lee, J. B.	Improved method of oxidizing indigo	323 of 1889.
Lee, J. B.	Improvements in the method of extracting indigo from the raw indigo plant.	324 of 1889.
Lee, J. B.	Improvements in the treatment of indigo deposits after the waste liquors of the oxidizing vat have been drawn off.	33 of 1890.

Cross

ALPHABETICAL LIST
OF
APPLICANTS FOR EXCLUSIVE PRIVILEGE
FOR
INVENTIONS CONNECTED WITH THE MANUFACTURE OF INDIGO.
1859—1890.

nt of India,

Name.	Subject of Invention.	Register No.
A		
Akitt, T., and C. J. Geneste	Improving the quality and increasing the production of indigo from the indigo feræ by the use of salts of ammonium in the process of manufacture.	154 of 1886.
Akitt, T., and C. J. Geneste	Increasing the yield of indigo from the indigo feræ by the use of boric acid in the process of manufacture.	39 of 1888.
Akitt, T.	Improvements in steeping the indigo plant in the manufacture of indigo.	88 of 1888.
Akitt, T.	Improvements in oxidising indigo liquor for the production of indigo-blue.	186 of 1889.
Akitt, T.	Improvements in steeping the indigo plant in the manufacture of indigo.	217 of 1889.
Alphen, K. Van Rylof Michael Cunningham.	Improvements in the preparation or treatment of indigo.	726 of 1873.
B		
Begg, J. S.	Construction of a machine for cleaning indigo cakes by means of suitable revolving brushes worked by hand or steam or other power.	92 of 1880.
Brown, R. C., and R. W. Coryton.	Stretching and adjusting the sheet in indigo presses.	53 of 1887.
Butler, A.	Beating and granulating indigo after the indigo has been drawn from the steeping vats.	175 of 1863.
Butler, A.	Improving presses used for pressing indigo	745 of 1873.

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April 1892.

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alphabetical lists

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the honor to be
Sir

obedient servant
Leut Col. R. C.
to the Government
of India

Cross

Date taken out.

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Government of India,

Calcutta

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Parry, A.	Invention for pressing tea, indigo, etc., into cakes or blocks.	127 of 1885.
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Ranking, G. S. A. . . .	Facilitating and expediting the process of indigo manufacture and increasing the yield of the dye.	144 of 1881.
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Schrottky, E. C. . . .	Improvement of indigo manufacture	77 of 1884.
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Grey, E. J.	Manufacturing indigo without resorting to the usual process of beating.	651 of 1872.
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Lee, J. B.	Improvements in the method of extracting indigo from the raw indigo plant.	322 of 1889.
Lee, J. B.	Improved method of oxidizing indigo	323 of 1889.
Lee, J. B.	Improvements in the method of extracting indigo from the raw indigo plant.	324 of 1889.
Lee, J. B.	Improvements in the treatment of indigo deposits after the waste liquors of the oxidizing vat have been drawn off.	33 of 1890.

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ALPHABETICAL LIST
OF
APPLICANTS FOR EXCLUSIVE PRIVILEGE
FOR
INVENTIONS CONNECTED WITH THE MANUFACTURE OF INDIGO.
1859—1890.

Name.	Subject of Invention.	Register No.
A		
Akitt, T., and C. J. Geneste	Improving the quality and increasing the production of indigo from the indigo feræ by the use of salts of ammonium in the process of manufacture.	154 of 1886.
Akitt, T., and C. J. Geneste	Increasing the yield of indigo from the indigo feræ by the use of boric acid in the process of manufacture.	39 of 1888.
Akitt, T.	Improvements in steeping the indigo plant in the manufacture of indigo.	88 of 1888.
Akitt, T.	Improvements in oxidising indigo liquor for the production of indigo-blue.	186 of 1889.
Akitt, T.	Improvements in steeping the indigo plant in the manufacture of indigo.	217 of 1889.
Alphen, K. Van Rylot Michael Cunningham.	Improvements in the preparation or treatment of indigo.	726 of 1873.
B		
Begg, J. S.	Construction of a machine for cleaning indigo cakes by means of suitable revolving brushes worked by hand or steam or other power.	92 of 1880.
Brown, R. C., and R. W. Coryton.	Stretching and adjusting the sheet in indigo presses.	53 of 1887.
Butler, A.	Beating and granulating indigo after the indigo has been drawn from the steeping vats.	175 of 1863.
Butler, A.	Improving presses used for pressing indigo	715 of 1873.

Cross

ALPHABETICAL LIST
OF
APPLICANTS FOR EXCLUSIVE PRIVILEGE
FOR
INVENTIONS CONNECTED WITH THE MANUFACTURE OF INDIGO.
1859-1890.

Indigo

1890

LIST OF PATENTEES AND APPLICANTS FOR PATENTS

Name.	Subject of invention.	Register No.
Philip, O. C., Father	New method for punkah-pulling	144 of 1888.
R		
Rajak, B. L.	An automatic punkah-pulling machine and an adjusted punkah.	184 of 1890.
Ramiah Nursiah	Self-acting chair fan	93 of 1890.
Raynsford, E. C. W., Major	Invention for the purpose of pulling punkahs .	736 of 1873.
Rebbeck, J. K., and H. Bull	A hydraulic punkah coolie	41 of 1880.
Romanes, J. S., Private	Punkah-pulling machine adapted for the use of pulling punkahs in barracks, offices and private residences.	81 of 1890.
Romanes, J. S., Private	Punkah-pulling machine adapted for the use of pulling punkahs in barracks, offices and private residences.	161 of 1890.
Romanes, J. S., Private	Punkah-pulling apparatus adapted for the use of barracks, offices, &c.	229 of 1890.
Rooke, C. M. S.	Self acting punkah machine	313 of 1890.
S		
Saintyves, F.	Punkah-pulling machine	306 of 1866.
Saintyves, F., and P. W. Fleury.	Improvements in the motive power of Mr. F. Saintyves' punkah-pulling machine.	317 of 1866.
Saunders, R. D.	Working punkahs and in connection with the machinery working such punkahs when used on railway trains for giving alarm to the drivers of trains.	660 of 1872.
Schwarz, R. C. Von	Punkah-pulling machine	172 of 1881.
Seton, C.	Carriage punkah	392 of 1868.
Sil, T. D.	Balanced punkah and a self-acting machine to work the same.	154 of 1889.
Smith, J. C.	Punkah-pulling machine, automatic in principle, the motive power derived from revolving wheels running upon an inclined plane.	288 of 1889.
Spühi, H., and J. Leemann	Fan motor	22 of 1890.
Stevenson, A. J.	Self-acting punkah-pulling machine	35 of 1882.
Stoney, E. W.	Improved forms and methods of constructing suspenders for punkahs, punkah wheels, &c.	34 of 1881.

FOR PUNKAH-PULLING INVENTIONS, 1859-1890.

Name.	Subject of invention.	Register No.
T		
Tanner, J. E.	An exhausting fan for the ventilation of barracks, private houses, &c.	326 of 1867.
Thomson, R. F.	Self-acting punkah	81 of 1861.
Thomson, R. F.	Pulling or working punkahs	516 of 1870.
Tucker, S. J.	Working punkahs by machinery	86 of 1877.
Turnbull, H. C. M., Lieut.	Improvements in apparatus or means for working punkahs or fans.	422 of 1869.
V		
Vacher, H.	Making punkahs self-acting by electro-magnetic power.	749 of 1873.
Venters, P.	Punkah-pulling by machinery	103 of 1883.
W		
Walter, H. E.	Improvements in apparatus for working punkahs	233 of 1890.
Watson, T. T.	Pulling punkahs by a machine to be driven by water or steam power, compressed air, electricity, vacuum or other motive power.	37 of 1888.

Name.	Subject of invention.	Register No.
J		
Jennings, C. J., Capt.	Working punkahs by machinery	479 of 1870.
Jones, T. L.	An improved rapid deep well water lift and punkah-pulling machine.	72 of 1889.
K		
Kelly, E. T.	Punkah-pulling machine	377 of 1863.
Kershaw, J., and S. R. Baildon.	Improved means and apparatus for moving or vibrating punkahs.	147 of 1887.
Kershaw, J., and S. R. Baildon.	Improvements in the construction or arrangement of apparatus for working punkahs.	137 of 1889.
L		
Lambert, W. A.	Improved apparatus for working punkahs by water and atmospheric pressure.	161 of 1889.
Landale, B. R.	An improved method of working punkahs by manual power.	175 of 1887.
Larymore, A. D.	"The poor man's punkah chair" and "Baby's punkah cradle."	201 of 1886.
Larymore, A. D., and Surgeon Major W. F. Murray.	A cheap self-acting punkah	37 of 1883.
Larymore, A. D., A. Parry and Surgeon-Major W. F. Murray.	A cheap and simple self-acting punkah-pulling machine.	127 of 1884.
Leemann, J., and H. Spühl	Fan motor	22 of 1890.
Livingstone, W. B.	Punkah-pulling and thermantia machine	312 of 1866.
Logan, G., Lieut	An improved method of constructing and suspending punkahs and working them by machinery.	384 of 1868.
M		
Mackenzie, A. R., and W. Maylor.	Pulling punkahs by machinery	498 of 1870.
Marshall, G. H., C. G.	Improvements in apparatus for working punkahs.	31 of 1877.
Maylor, W., and A. R. Mackenzie.	Pulling punkahs by machinery	498 of 1870.
M'Kean, J.	Punkah-pulling mechanically	185 of 1884.

Name.	Subject of invention.	Register No.
Morris, R.	Improvements in the machinery and methods employed to pull punkahs and drive thermantidotes.	88 of 1879.
Mortimer, G., Conductor	Improved method of suspending, connecting and pulling punkahs.	70 of 1878.
Mulock, E., Colonel	Improvements in apparatus for working punkahs	109 of 1886.
Mundy, T. R.	Equidistant punkah swinging system	299 of 1889.
Murray, W. F., Surgeon-Major, and A. D. Larymore.	A cheap self-acting punkah	37 of 1883.
Murray, W. F., Surgeon-Major, A. Parry and A. D. Larymore.	A cheap and simple self-acting punkah-pulling machine.	127 of 1884.
N		
Neale, R.	Improvements in punkahs	58 of 1882.
Nelson, J. B.	Working punkahs by means of a hydraulic ram or by an endless band with buckets.	68 of 1861.
O		
Ojha, Madhoram	Improvements in punkahs	159 of 1886.
Orr, P.	Moving or pulling punkahs	42 of 1860.
Orr, P.	Pulling punkahs	130 of 1862.
Orr, P.	Improvement of punkah-pulling	266 of 1865.
Orr, P.	Pulling punkahs by means of an engine worked by steam or other power.	552 of 1871.
P		
Palliser, E., and R. C. Parsons.	Improvements in apparatus for working punkahs by fluid pressure.	59 of 1878.
Parry, A., A. D. Larymore and Surgeon-Major W. F. Murray	A cheap and simple self-acting punkah-pulling machine.	127 of 1884.
Parsons, R. C., and E. Palliser.	Improvements in apparatus for working punkahs by fluid pressure.	59 of 1878.
Philip, Fr., James R. Bell, and H. Appleton.	Barrack punkah	167 of 1890.

Name.	Subject of invention.	Register No.
Bull, H.	A punkah-pulling machine	53 of 1876.
Bull, H.	Improvements in punkahs and their connections	96 of 1876.
Bull, H.	A punkah puller	55 of 1878.
Bull, H.	Balancing punkahs where more than one have to be pulled.	64 of 1889.
Bull, H., and J. K. Rebbeck	A hydraulic punkah coolie	41 of 1880.
C		
Calderwood, W., Revd.	Improvements in punkahs and their appurtenances.	239 of 1865.
Callarman, J.	A motive power for driving punkahs	157 of 1882.
Chater, L.	An improved arrangement to pull or work punkahs economically.	100 of 1884.
Cooke, J. G.	Working punkahs in railway and other carriages, buildings, ships, &c.	802 of 1874.
Cooper, T. E. G.	Propelling punkahs, thermantidotes, &c., and for the suspension of punkahs.	26 of 1888.
Cooper, T. E. G.	A telescopic trussed spring balance punkah	57 of 1888.
D		
David, J.	A punkah or fan for producing a constant current of air.	247 of 1889.
Davis, A. A. F.	An improved self-acting punkah-pulling machine	121 of 1888.
Davis, A. A. F., and H. Haward.	Improved self-acting punkah-pulling machine	81 of 1889.
Davis, A. A. F., and H. Haward.	A further improvement in punkah-pulling machines.	195 of 1889.
Davis, F. W.	A self-acting atmospherical or steam machine and apparatus for propelling punkahs and driving machinery.	587 of 1872.
Doss, Babu A. C.	Punkah-pulling	170 of 1881.
Dubern, G.	Improved punkahs and machinery for working them.	415 of 1869.
Dubern, G.	Improved machinery for working punkahs and improved means for transmitting motive power to them.	490 of 1870.

Name.	Subject of invention.	Register No.
Dubern, G.	A punkah-pulling regulator	48 of 1878.
Duncan, N.	The pulling of punkahs called "Duncan's Pneumatic punkah-puller."	157 of 1890.
E		
Edwards, A. R., Surgeon	Punkah machine worked by water-power	123 of 1888.
Ewing, Charles	Method of antifriction suspension of punkahs and a self-acting punkah machine for working the same.	57 of 1879.
Ewing, Charles	Machinery to be used with manual, steam, gas, water-falling weights or any other available power for pulling punkahs.	208 of 1887.
Ewing, Charles	Improvement in the construction of the Drunken Eccentric illustrated in Patent No. 208 of 1887.	25 of 1888.
F		
Faulkner, G. H.	Pulling punkahs in barracks, &c., and using compressed air or steam or water as the motive power.	118 of 1862.
Fleury, P. W., and F. Saintyves.	Improvements in the motive power of Mr. F. Saintyves' punkah-pulling machine.	317 of 1866.
Fleury, P. W.	A method of pulling punkahs by an improved steam or water or other motor.	31 of 1885.
G		
Gartner, H.	A self-acting punkah	289 of 1866.
Grainger, J. N.	Working of punkahs by compressed air	461 of 1870.
Gray, T.	Improved punkah-pulling machine	267 of 1889.
H		
Harper, H. D.	Self-acting punkah-pulling machine (The 'Eureka').	275 of 1889.
Haward, H., and A. A. F. Davis.	Improved self-acting punkah-pulling machine	81 of 1889.
Haward, H., and A. A. F. Davis.	A further improvement in punkah-pulling machines.	195 of 1889.
I		
Inray, J.	Improvements in apparatus for working punkahs	791 of 1871.

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ALPHABETICAL LIST
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APPLICANTS FOR EXCLUSIVE PRIVILEGE
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PUNKAH-PULLING INVENTIONS,
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1859-1890.

Name.	Subject of invention	Register No.
A		
Agabeg, F. J.	Invention for cooling the person or room, named the "automatic portable electric fan."	42 of 1890.
Appleton, H., J. R. Bell and Fr. Philip.	Barrack punkah	167 of 1890.
B		
Babaine, Jean	Self acting punkahs	301 of 1886.
Baillon, S. R., and J. Kershaw.	Improved means and apparatus for moving or vibrating punkahs.	147 of 1887.
Baillon, S. R., and James Kershaw.	Improvements in the construction or arrangement of apparatus for working punkahs.	137 of 1889.
Bamford, H. A.	An improved punkah specially adapted to confined spaces and capable of being worked either vertically or horizontally.	174 of 1887.
Parces, J. F.	Pulling punkahs with economy and ease	47 of 1875.
Bayne, R. R.	Punkah motor	112 of 1889.
Bell, A. J.	Pulling punkahs and pumping water for tatties	757 of 1874.
Bell, J. R., Father Philip and H. Appleton.	Barrack punkah	167 of 1890.
Boileau, L. F., Lieut.	A helico centrifugal fan punkah	613 of 1872.

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ALPHABETICAL LIST
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APPLICANTS FOR EXCLUSIVE PRIVILEGE
FOR
PUNKAH-PULLING INVENTIONS,
FROM
1859-1890.

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Name.	Subject of invention.	Register No.
Philip, O. C., Father	New method for punkah-pulling	144 of 1888.
R		
Rajak, B. L.	An automatic punkah-pulling machine and an adjusted punkah.	184 of 1890.
Ramiah Nursiah	Self-acting chair fan	93 of 1890.
Raynsford, E. C. W., Major	Invention for the purpose of pulling punkahs	736 of 1873.
Rebbeck, J. K., and H. Bull	A hydraulic punkah coolie	41 of 1880.
Romanes, J. S., Private	Punkah-pulling machine adapted for the use of pulling punkahs in barracks, offices and private residences.	81 of 1890.
Romanes, J. S., Private	Punkah-pulling machine adapted for the use of pulling punkahs in barracks, offices and private residences.	161 of 1890.
Romanes, J. S., Private	Punkah-pulling apparatus adapted for the use of barracks, offices, &c.	229 of 1890.
Rooke, C. M. S.	Self acting punkah machine	313 of 1890.
S		
Saintyves, F.	Punkah-pulling machine	306 of 1866.
Saintyves, F., and P. W. Fleury.	Improvements in the motive power of Mr. F. Saintyves' punkah-pulling machine.	317 of 1866.
Saunders, R. D.	Working punkahs and in connection with the machinery working such punkahs when used on railway trains for giving alarm to the drivers of trains.	660 of 1872.
Schwarz, R. C. Von	Punkah-pulling machine	172 of 1881.
Seton, C.	Carriage punkah	392 of 1868.
Sil, T. D.	Balanced punkah and a self-acting machine to work the same.	154 of 1889.
Smith, J. C.	Punkah-pulling machine, automatic in principle, the motive power derived from revolving wheels running upon an inclined plane.	288 of 1889.
Spühl, H., and J. Leemann	Fan motor	22 of 1890.
Stevenson, A. J.	Self-acting punkah-pulling machine	35 of 1882.
Stoney, E. W.	Improved forms and methods of constructing suspenders for punkahs, punkah wheels, &c.	34 of 1881.

Name.	Subject of invention.	Register No.
T		
Tanner, J. E.	An exhausting fan for the ventilation of barracks, private houses, &c.	326 of 1867.
Thomson, R. F.	Self-acting punkah	81 of 1861.
Thomson, R. F.	Pulling or working punkahs	516 of 1870.
Tucker, S. J.	Working punkahs by machinery	86 of 1877.
Turnbull, H. C. M., Lieut.	Improvements in apparatus or means for working punkahs or fans.	422 of 1869.
V		
Vacher, H.	Making punkahs self-acting by electro-magnetic power.	749 of 1873.
Venters, P.	Punkah-pulling by machinery	103 of 1883.
W		
Walter, H. E.	Improvements in apparatus for working punkahs	233 of 1890.
Watson, T. T.	Pulling punkahs by a machine to be driven by water or steam power, compressed air, electricity, vacuum or other motive power.	37 of 1888.

Name.	Subject of invention.	Register No.
J		
Jennings, C. J., Capt.	Working punkahs by machinery	479 of 1870.
Jones, T. L.	An improved rapid deep well water lift and punkah-pulling machine.	72 of 1889.
K		
Kelly, E. T.	Punkah-pulling machine	377 of 1868.
Kershaw, J., and S. R. Baildon.	Improved means and apparatus for moving or vibrating punkahs.	147 of 1887.
Kershaw, J., and S. R. Baildon.	Improvements in the construction or arrangement of apparatus for working punkahs.	137 of 1889.
L		
Lambert, W. A.	Improved apparatus for working punkahs by water and atmospheric pressure.	161 of 1889.
Landale, B. R.	An improved method of working punkahs by manual power.	175 of 1887.
Larymore, A. D.	"The poor man's punkah chair" and "Baby's punkah cradle."	201 of 1886.
Larymore, A. D., and Surgeon-Major W. F. Murray.	A cheap self-acting punkah	37 of 1883.
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Logan, G., Lieut.	An improved method of constructing and suspending punkahs and working them by machinery.	384 of 1868.
M		
Mackenzie, A. R., and W. Maylor.	Pulling punkahs by machinery	498 of 1870.
Marshall, G. H., Capt.	Improvements in apparatus for working punkahs.	31 of 1877.
Maylor, W., and A. R. Mackenzie.	Pulling punkahs by machinery	498 of 1870.
M'Kean, J.	Punkah-pulling mechanically	185 of 1884.

Name.	Subject of invention.	Register No.
Morris, R.	Improvements in the machinery and methods employed to pull punkahs and drive thermantidotes.	88 of 1879.
Mortimer, G., Conductor	Improved method of suspending, connecting and pulling punkahs.	70 of 1878.
Mallock, E., Colonel	Improvements in apparatus for working punkahs	109 of 1886.
Mundy, T. R.	Equidistant punkah swinging system	299 of 1889.
Murray, W. F., Surgeon-Major, and A. D. Larymore.	A cheap self-acting punkah	37 of 1883.
Murray, W. F., Surgeon-Major, A. Parry and A. D. Larymore.	A cheap and simple self-acting punkah-pulling machine.	127 of 1884.
N		
Neale, R.	Improvements in punkahs	58 of 1882.
Nelson, J. B.	Working punkahs by means of a hydraulic ram or by an endless band with buckets.	68 of 1861.
O		
Ojha, Madhoram	Improvements in punkahs	159 of 1886.
Orr, P.	Moving or pulling punkahs	42 of 1860.
Orr, P.	Pulling punkahs	130 of 1862.
Orr, P.	Improvement of punkah-pulling	266 of 1865.
Orr, P.	Pulling punkahs by means of an engine worked by steam or other power.	552 of 1871.
P		
Palliser, E., and R. C. Parsons.	Improvements in apparatus for working punkahs by fluid pressure.	59 of 1878.
Parry, A., A. D. Larymore and Surgeon-Major W. F. Murray	A cheap and simple self-acting punkah-pulling machine.	127 of 1884.
Parsons, R. C., and E. Palliser.	Improvements in apparatus for working punkahs by fluid pressure.	59 of 1878.
Philip, Fr., James R. Bell and H. Appleton.	Barnack punkah	167 of 1890.

Name.	Subject of invention.	Register No.
Bull, H.	A punkah-pulling machine	53 of 1876.
Bull, H.	Improvements in punkahs and their connections	96 of 1876.
Bull, H.	A punkah puller	55 of 1878.
Bull, H.	Balancing punkahs where more than one have to be pulled.	64 of 1889.
Bull, H., and J. K. Rebbeck	A hydraulic punkah coolie	41 of 1880.
C		
Calderwood, W., Revd.	Improvements in punkahs and their appurtenances.	239 of 1865.
Callarman, J.	A motive power for driving punkahs	157 of 1882.
Chater, L.	An improved arrangement to pull or work punkahs economically.	100 of 1884.
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Davis, A. A. F., and H. Haward.	Improved self-acting punkah-pulling machine	81 of 1889.
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Davis, F. W.	A self-acting atmospherical or steam machine and apparatus for propelling punkahs and driving machinery.	587 of 1872.
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Name.	Subject of invention.	Register No.
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Duncan, N.	The pulling of punkahs called "Duncan's Pneumatic punkah-puller."	157 of 1890.
E		
Edwards, A. R., Surgeon	Punkah machine worked by water-power	123 of 1888.
Ewing, Charles	Method of antifriction suspension of punkahs and a self-acting punkah machine for working the same.	57 of 1879.
Ewing, Charles	Machinery to be used with manual, steam, gas, water-falling weights or any other available power for pulling punkahs.	208 of 1887.
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Faulkner, G. H.	Pulling punkahs in barracks, &c., and using compressed air or steam or water as the motive power.	118 of 1862.
Fleury, P. W., and F. Saintyves.	Improvements in the motive power of Mr. F. Saintyves' punkah-pulling machine.	317 of 1866.
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Gartner, H.	A self-acting punkah	289 of 1866.
Grainger, J. N.	Working of punkahs by compressed air	461 of 1870.
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Inray, J.	Improvements in apparatus for working punkahs	791 of 1874.

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Baildon, S. R., and James Kershaw.	Improvements in the construction or arrangement of apparatus for working punkahs.	137 of 1889.
Bamford, H. A.	An improved punkah specially adapted to confined spaces and capable of being worked either vertically or horizontally.	174 of 1887.
Barress, J. E.	Pulling punkahs with economy and ease	47 of 1875.
Payne, R. R.	Punkah motor	112 of 1889.
Bell, A. J.	Pulling punkahs and pumping water for tatties	757 of 1874.
Bell, J. R., Father Philip and H. Appleton.	Barrack punkah	167 of 1890.
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