COMMUNICATIONS RECEIVED.

The Editor of the SCIENTIFIC AMERICAN acknowledges, with much pleasure, the receipt of original papers and contributions upon the following subjects:

On a Square Acre. By J. H. M. On Patent Cases in the Courts. By J. On Cheap Telescopes. By S. M. B.

On Pisciculture. By J. A. M.

On Friction Pulleys. By B. N. C. On Trisecting an Angle. By J. S. A. On the Parabolic Mirror. By J. L.

On Reduction of Copper Ores. By F. C.

On Transfusion of Blood. By W.A.G.

On Rheumatism. By J. P.

Also enquiries from the following: L.F.-M.F.

Correspondents who write to ask the address of certain manufacturers, or where specified articles are to be had also those having goods for sale, or who want to find partners, should send with their communications an amountsufficient to cover the cost of publication under the head of "Business and Personal" which is specially devoted to such enquiries.

[OFFICIAL.]

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Safe doors, operating, H. B. Tripp. Sample case, revolving, J. F. Randolph. Sap spout, H. B. Sevey. Saw mill dog, E. H. Stearns. Saw mill dog, E. H. Stearns. Saw mill dog, J. Torrent. Saw mill dead block, Prescott et al Saw set, W. J. Boynton. Scraper, road, R. F. Read. Scraper, road, Warner & Kingsley. Seeder, broadcast, J. R. Scarborough. Seeding machine, M. Schnapp. Seeding machine, E. Witzigman. Seewing machine, E. Witzigman. Sewing machine, O. Potter. Sewing machine, O. St. Amant. Sewing machine caster, J. K. Proctor. Sewing machine extension table, J. Bennor, (r). Shovel, sifting, C. Kaestner. Signal, fog, G. C. Pattison. Signal, railway, E. R. Marshall. Skirt, skeleton, P. Lippmann. sleigh brake, T. H. Bromley. Smoke consuming apparatus, W. B. W. Smith. Soda water tumbler nolder, J. Matthews. Spark arrester, G. Swenson. Spinning machine spindle, W. G. Perry. Spoke setting machine, W. R. Greene. Spring, door, F. H. Richards.	145,082 144,954 144,871 145,026 145,081 144,965 144,97 144,97 144,97 144,961 144,861 144,861 144,861 144,861 144,861 144,861 144,861 144,861 144,861 144,961 144,961 144,961 144,91 144,91 144,91 144,91 144,91 144,91 144,91 144,91 144,91 144,91 144,91
Safe doors, operating, H. B. Tripp. Sample case, revolving, J. F. Randolph. Sap spout, H. B. Sevey. Saw mill dog, E. H. Stearns. Saw mill dog, E. H. Stearns. Saw mill dog, J. Torrent. Saw set, W. J. Boynton. Scraper, road, R. F. Read. Scraper, road, R. F. Read. Secraper, road, Warner & Kingsley. Seeding machine, M. Schnapp. Seeding machine, E. Witzigman. Sewing machine, E. Witzigman. Sewing machine, D. Potter. Sewing machine, O. St. Amant. Sewing machine extension table, J. Bennor, (r). Shovel, sifting, C. Kaestner. Signal, fog, G. C. Pattison. Signal, railway, E. R. Marshall. Skirt, skeleton, P. Lippmann. Sleigh brake, T. H. Bromley. Smoke consuming apparatus, W. B. W. Smith. Soda water tumbler nolder, J. Matthews. Spark arrester, G. Swenson. Spinning machine sylndle, W. G. Perry. Spoke setting machine, W. R. Greene. Spring, door, F. H. Richards. Streel, manufacture of, C. M. Nes.	145,082 144,944 144,871 145,026 145,081 144,866 144,947 144,955 145,019 144,879 144,961 144,864 145,025 144,961 144,864 145,025 144,850 144,851 144,961 144,961 144,961 144,961 144,962 144,960 144,962
Safe doors, operating, H. B. Tripp. Sample case, revolving, J. F. Randolph. Sap spout, H. B. Sever. Saw mill dog, E. H. Stearns. Saw mill dead block, Prescott et al Saw set, W. J. Boynton. Scraper, road, R. F. Read. Scraper, road, R. F. Read. Sceder, broadcast, J. R. Scarborough. Seeding machine, M. Schnapp. Seeding machine, E. Witzigman. Sewing machine, D. Porter. Sewing machine, O. St. Amant. Sewing machine caster, J. K. Proctor. Sewing machine extension table, J. Bennor, (r). Shovel, sifting, C. Kaestner. Signal, fog, G. C. Pattison. Signal, fog, G. C. Pattison. Signal, fog, G. P. Lippmann. Sleigh brake, T. H. Bromley. Smoke consuming apparatus, W. B. W. Smith. Soda water tumbler noider, J. Matthews. Spark arrester, G. Swenson. Spinning machine spindle, W. G. Perry. Spoke setting machine, W. R. Greene. Spring, door, F. H. Richards. Stoore, cherry, Buck & Kirk. Stoore ple stretcher, etc., G. Elsey.	145,082 144,943 144,871 145,026 145,081 144,965 144,97 144,97 144,97 144,97 144,961 144,864 145,019 144,861 144,861 144,861 144,861 144,861 144,949 144,949 144,949 144,949 144,949 144,932 145,009 144,932 144,932 144,932 144,933 144,933 144,933 144,933 144,949
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Safe doors, operating, H. B. Tripp. Sample case, revolving, J. F. Randolph. Sap spout, H. B. Sever. Saw mill dog, E. H. Stearns. Saw mill dog, J. Torrent. Saw mill dog, J. Torrent. Saw mill head block, Prescott et al. Saw set, W. J. Boynton. Scraper, road, R. F. Read. Scraper, road, R. F. Read. Seeder, broadcast, J. R. Scarborough. Seeding machine, M. Schnapp. Seeding machine, E. Witzigman. Sewing machine, E. Witzigman. Sewing machine, D. Porter. Sewing machine, O. St. Amant. Sewing machine caster, J. K. Proctor. Sewing machine extension table, J. Bennor, (r). Shovel, sifting, C. Kaestner. Signal, fog, G. C. Pattison. Signal, fog, G. T. Bromley. Smoke consuming apparatus, W. B. W. Smith. Soda water tumbler nolder, J. Matthews. Spark arrester, G. Swenson. Spinning machine spindle, W. G. Perry. Spoke setting machine, W. R. Greene. Spring, door, F. H. Richards Steel, manufacture of, C. M. Nes. Stoner, cherry, Buck & Kirk. Stove pipe stretcher, etc., G. Elsey Strap coupling, T. Cagswell. Stubbleshaver and scraper, Von Phul, Jr. et al.	145,082 144,943 144,871 145,026 145,031 144,947 144,947 145,018 145,019 144,879 144,975 144,950 144,864 145,025 144,861 145,025 144,861 145,025 144,861 145,025 144,850 144,911 145,022 144,913 144,932 144,913 144,932 144,900 144,900 144,926 144,937 144,937 144,957 144,957
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Safe doors, operating, H. B. Tripp. Sample case, revolving, J. F. Randolph. Sap spout, H. B. Sever. Saw mill dog, E. H. Stearns. Saw mill dog, E. H. Stearns. Saw mill dog, D. Torrent. Saw mill head block, Prescott et al. Saw set, W. J. Boynton. Scraper, road, R. F. Read. Scraper, road, R. F. Read. Scraper, road, Warner & Kingsley. Seeder, broadcast, J. R. Scarborough. Seeding machine, M. Schnapp. Seeding machine, E. Witzigman. Sewing machine, E. Witzigman. Sewing machine, D. Porter. Sewing machine, O. St. Amant. Sewing machine caster, J. K. Proctor. Sewing machine extension table, J. Bennor, (r). Shovel, sifting, C. Kaestner. Signal, fog, G. C. Pattison. Signal, fog, G. C. Pattison. Signal, railway, E. R. Marshall. Skirt, skeleton, P. Lippmann. Sleigh brake, T. H. Bromley. Smoke consuming apparatus, W. B. W. Smith. Soda water tumbler nolder, J. Matthews. Spark arrester, G. Swenson. Spinning machine spindle, W. G. Perry. Spoke setting machine, W. R. Greene. Spring, door, F. H. Richards Steel, manufacture of, C. M. Nes. Stoner, cherry, Buck & Kirk. Stove pipe stretcher, etc., G. Elsey Strap coupling, T. Cagswell. Stubbleshaver and scraper, Von Phul, Jr. et al. Sulky, L. H. Jennison. Suspenders, T. J. Flagg. Table, troning, L. Scofield. Tablet, writing, C. N. Brown. Tan drying apparatus, N. Porter. Thrashing machine, J. Smith. Toy, automatic, A. H. Dean. Trap, fly, Packard & Standish. Truss, brace, H. H. Roedel. Umbrella, H. L. Power.	145,082 144,943 144,871 145,026 145,031 144,947 144,947 145,018 145,019 144,879 144,961 144,861 145,025 144,961 145,025 144,861 145,025 144,861 145,025 144,861 145,025 144,911 145,022 144,911 145,022 144,913 144,932 144,949 144,949 144,949 144,949 144,967 144,983 144,970 144,983 144,970 144,860 144,871 144,889 144,871 144,889 144,871 144,889 144,871
Safe doors, operating, H. B. Tripp. Sample case, revolving, J. F. Randolph. Sap spout, H. B. Sever. Saw mill dog, E. H. Stearns. Saw mill dog, E. H. Stearns. Saw mill dog, D. Torrent. Saw mill head block, Prescott et al. Saw set, W. J. Boynton. Scraper, road, R. F. Read. Scraper, road, R. F. Read. Scraper, road, Warner & Kingsley. Seeder, broadcast, J. R. Scarborough. Seeding machine, M. Schnapp. Seeding machine, E. Witzigman. Sewing machine, E. Witzigman. Sewing machine, D. Porter. Sewing machine, O. St. Amant. Sewing machine extension table, J. Bennor, (r). Shovel, sifting, C. Kaestner. Signal, fog, G. C. Pattison. Signal, railway, E. R. Marshall. Skirt, skeleton, P. Lippmann. sleigh brake, T. H. Bromley. Smoke consuming apparatus, W. B. W. Smith. Soda water tumbler nolder, J. Matthews. Spark arrester, G. Swenson. Spinning machine spindle, W. G. Perry. Spoke setting machine, W. R. Greene. Spring, door, F. H. Richards Steel, manufacture of, C. M. Nes. Stoner, cherry, Buck & Kirk. Stove pipe stretcher, etc., G. Elsey Strap coupling, T. Cogswell. Stubble shaver and scraper, Von Phul, Jr. et al. Sulky, L. H. Jennison. Suspenders, T. J. Flagg. Tablet, writing, C. N. Brown. Tand drying apparatus, N. Porter. Thrashing machine, J. Smith. Toy, automatic, A. H. Dean. Trap, fly, Packard & Standish Truss, brace, H. H. Roedel. Umbrella, H. L. Power. Umbrella, C. B. Spencer. Valises, etc., connecting frames of, C. Votti. Valve, A. Marriott.	145,082 144,947 144,961 144,961 144,961 144,971 145,019 144,971 145,019 144,871 145,019 144,871 144,961 144,861 144,961 144,861 144,878 144,878
Safe doors, operating, H. B. Tripp. Sample case, revolving, J. F. Randolph. Sap spout, H. B. Sever. Saw mill dog, E. H. Stearns. Saw mill dog, E. H. Stearns. Saw mill dog, D. Torrent. Saw mill head block, Prescott et al. Saw set, W. J. Boynton. Scraper, road, R. F. Read. Scraper, road, R. F. Read. Scraper, road, Warner & Kingsley. Seeder, broadcast, J. R. Scarborough. Seeding machine, M. Schnapp. Seeding machine, E. Witzigman. Sewing machine, E. Witzigman. Sewing machine, D. Porter. Sewing machine, O. St. Amant. Sewing machine extension table, J. Bennor, (r). Shovel, sifting, C. Kaestner. Signal, fog, G. C. Pattison. Signal, railway, E. R. Marshall. Skirt, skeleton, P. Lippmann. sleigh brake, T. H. Bromley. Smoke consuming apparatus, W. B. W. Smith. Soda water tumbler nolder, J. Matthews. Spark arrester, G. Swenson. Spinning machine spindle, W. G. Perry. Spoke setting machine, W. R. Greene. Spring, door, F. H. Richards Steel, manufacture of, C. M. Nes. Stoner, cherry, Buck & Kirk. Stove pipe stretcher, etc., G. Elsey Strap coupling, T. Cogswell. Stubble shaver and scraper, Von Phul, Jr. et al. Sulky, L. H. Jennison. Suspenders, T. J. Flagg. Tablet, writing, C. N. Brown. Tand drying apparatus, N. Porter. Thrashing machine, J. Smith. Toy, automatic, A. H. Dean. Trap, fly, Packard & Standish Truss, brace, H. H. Roedel. Umbrella, H. L. Power. Umbrella, C. B. Spencer. Valises, etc., connecting frames of, C. Votti. Valve, A. Marriott.	145,082 144,947 144,961 144,961 144,961 144,971 145,019 144,971 145,019 144,871 145,019 144,871 144,961 144,861 144,961 144,861 144,878 144,878
Safe doors, operating, H. B. Tripp. Sample case, revolving, J. F. Randolph Sap spout, H. B. Sevey. Say mill dog, E. H. Stearns. Saw mill dog, E. H. Stearns. Saw mill head block, Prescott et al Saw set, W. J. Boynton. Scraper, road, R. F. Read. Scraper, road, R. F. Read. Scraper, road, Warner & Kingsley. Seeder, broadcast, J. R. Scarborough. Seeding machine, M. Schnapp. Seeding machine, E. Witzigman. Sewering machine, E. Witzigman. Sewing machine, O. St. Amant. Sewing machine caster, J. K. Proctor. Sewing machine extension table, J. Bennor, (r). Shovel, sifting, C. Kaestner. Signal, fog, G. C. Pattison. Signal, fog, G. C. Pattison. Signal, railway, E. R. Marshall. Skirt, skeleton, P. Lippmann. Sleigh brake, T. H. Bromley. Smoke consuming apparatus, W. B. W. Smith. Soda water tumbler nolder, J. Matthews. Spark arrester, G. Swenson. Spinning machine spindle, W. G. Perry. Spoke setting machine, W. R. Greene. Spring, door, F. H. Richards. Stoore, cherry, Buck & Kirk. Stove pipe stretcher, etc., G. Elsey. Strap coupling, T. Cagswell. Stubble shaver and scraper, Von Phul, Jr. et al. Sulky, L. H. Jennison. Suspenders, T. J. Flagg. Table, ironing, L. Scofield. Tablet, writing, C. N. Brown Tan drying apparatus, N. Porter. Thrashing machine, J. Smith Truss, brace, H. H. Roedel. Umbrella, C. B. Spencer. Valises, etc., connecting frames of, C. Votti. Valve, A. Marriott. Varnish, refning, F. Kersting	145,082 144,943 144,871 145,026 145,081 144,947 144,947 145,018 145,019 144,879 144,961 144,874 144,961 144,864 145,025 144,850 145,025 144,850 145,025 144,932 145,011 144,949 144,949 144,949 144,949 144,932 144,932 144,933 144,933 144,967 144,863 144,864 144,874 144,874 144,860 144,874 144,860 144,874 144,866 144,878 144,876 144,874 144,874 144,866 144,878 144,876 144,878 144,876 144,876 144,876 144,876 144,876 144,876 144,876 144,878 144,876 144,876 144,876 144,878 144,876 144,878 144,876 144,878
Safe doors, operating, H. B. Tripp. Sample case, revolving, J. F. Randolph. Sap spout, H. B. Sever. Saw mill dog, E. H. Stearns. Saw mill dog, E. H. Stearns. Saw mill dog, D. Torrent. Saw mill head block, Prescott et al. Saw set, W. J. Boynton. Scraper, road, R. F. Read. Scraper, road, R. F. Read. Scraper, road, Warner & Kingsley. Seeder, broadcast, J. R. Scarborough. Seeding machine, M. Schnapp. Seeding machine, E. Witzigman. Sewing machine, E. Witzigman. Sewing machine, D. Porter. Sewing machine, O. St. Amant. Sewing machine extension table, J. Bennor, (r). Shovel, sifting, C. Kaestner. Signal, fog, G. C. Pattison. Signal, railway, E. R. Marshall. Skirt, skeleton, P. Lippmann. sleigh brake, T. H. Bromley. Smoke consuming apparatus, W. B. W. Smith. Soda water tumbler nolder, J. Matthews. Spark arrester, G. Swenson. Spinning machine spindle, W. G. Perry. Spoke setting machine, W. R. Greene. Spring, door, F. H. Richards Steel, manufacture of, C. M. Nes. Stoner, cherry, Buck & Kirk. Stove pipe stretcher, etc., G. Elsey Strap coupling, T. Cogswell. Stubbleshaver and scraper, Von Phul, Jr. et al. Sulky, L. H. Jennison. Suspenders, T. J. Flagg. Tablet, writing, C. N. Brown. Tand drying apparatus, N. Porter. Thrashing machine, J. Smith. Toy, automatic, A. H. Dean. Trap, fly, Packard & Standish. Truss, brace, H. H. Roedel. Umbrella, C. B. Spencer. Vallese, etc., connecting frames of, C. Votti. Vallese, A. Marriott. Varnish for wood, metal, etc., J. F. Chevaller. Veneer cutting machine, W. H. Williams.	145,082 144,943 144,947 145,026 145,031 144,947 144,925 144,947 145,019 144,879 144,861 144,861 144,861 144,949 144,950 144,950 144,932 144,910 144,967 144,868 144,970 144,983 144,970 144,969 144,970 144,983 144,970 144,983 144,970 144,983 144,970 144,983 144,970 144,983 144,970 144,983 144,970 144,983 144,970 144,983 144,970 144,983 144,970 144,983 144,970 144,983 144,970 144,983 144,983 144,970 144,983 144,983 144,983 144,983 144,983 144,983 144,983 144,983 144,983 144,983 144,983 144,983 144,983 144,983 144,983 144,983
Safe doors, operating, H. B. Tripp Sample case, revolving, J. F. Randolph. Sap spout, H. B. Sever. Saw mill dog, E. H. Stearns. Saw mill dog, E. H. Stearns. Saw mill dead block, Prescott et al. Saw set, W. J. Boynton Scraper, road, R. F. Read. Scraper, road, R. F. Read. Scraper, road, Warner & Kingsley Seeding machine, M. Schnapp Seeding machine, E. Witzigman Sewering machine, D. Porter Sewing machine, O. St. Amant Sewing machine caster, J. K. Proctor Sewing machine extension table, J. Bennor, (r). Shovel, slfting, C. Kaestner Signal, fog, G. C. Pattison Signal, fog, G. C. Pattison Signal, railway, E. R. Marshall Skirt, skeleton, P. Lippmann Bleigh brake, T. H. Bromley Smoke consuming apparatus, W. B. W. Smith Soda water tumbler nolder, J. Matthews Spark arrester, G. Swenson Spinning machine spindle, W. G. Perry Spoke setting machine, W. R. Greene Spring, door, F. H. Richards. Steel, manufacture of, C. M. Nes Stoner, cherry, Buck & Kirk Stove pipe stretcher, etc., G. Elsey Strap coupling, T. Cagswell Stubble shaver and scraper, Von Phul, Jr. et al. Sulky, L. H. Jennison Suspenders, T. J. Flagg Tablet, writing, C. N. Brown Tande, ironing, L. Scofield Tablet, writing, C. N. Brown Tandrying apparatus, N. Porter Thrashing machine, J. Smith Toy, automatic, A. H. Dean Trap, fly, Packard & Standish Truss, brace, H. H. Roedel Umbrella, C. B. Spencer Valve, A. Marriott Vannish, refining, F. Kersting Veneer cutting machine, W. H. Williams Veneer cutting machine, W. H. Williams Vensel's booms, antifriction, H. Gregory, Jr	145,082 144,943 144,947 145,026 145,031 144,947 144,973 145,019 144,973 144,973 144,961 144,864 145,025 144,961 144,864 145,025 144,961 144,961 144,961 144,961 144,961 144,961 144,971
Safe doors, operating, H. B. Tripp Sample case, revolving, J. F. Randolph. Sam spapout, H. B. Sever. Saw mill dog, E. H. Stearns. Saw mill dog, E. H. Stearns. Saw mill dead block, Prescott et al Saw set, W. J. Boynton Scraper, road, R. F. Read Scraper, road, R. F. Read Scraper, road, Warner & Kingsley Seeding machine, M. Schnapp Seeding machine, E. Witzigman Sewer bottom, cement, M. Day Sewing machine, D. Porter Sewing machine aster, J. K. Proctor Sewing machine caster, J. K. Proctor Sewing machine extension table, J. Bennor, (r). Shovel, sifting, C. Kaestner Signal, fog, G. C. Pattison Signal, fog, G. C. Pattison Signal, railway, E. R. Marshall Skirt, skeleton, P. Lippmann Sleigh brake, T. H. Bromley Smoke consuming apparatus, W. B. W. Smith Soda water tumbler nolder, J. Matthews Spark arrester, G. Swenson Spinning machine spindle, W. G. Perry Spoke settling machine, W. R. Greene Spring, door, F. H. Richards Stoer, cherry, Buck & Kirk Stove pipe stretcher, etc., G. Elsey Strap coupling, T. Cagswell Stuble shaver and scraper, Von Phul, Jr. et al Sulky, L. H. Jennison Suspenders, T. J. Flagg Tablet, ironing, L. Scofield Tablet, writing, C. N. Brown Tand drying apparatus, N. Porter Thrashing machine, J. Smith Toy, automatic, A. H. Dean Trap, fly, Packard & Standish Truss, brace, H. H. Roedel Umbrella, C. B. Spencer Valve, A. Marriott Varnish for wood, metal, etc., J. F. Chevaller Vensel's connecting frames of, C. Votti Veneer cuttling machine, W. H. Williams Veneer cuttling machine, W. H. Williams Vessel's booms, antifriction, H. Gregory, Jr Vessel's booms, antifriction, H. Gregory, Jr	145,082 144,943 144,947 145,026 145,081 144,947 144,925 144,976 144,879 144,976 144,864 145,025 144,983 144,996 145,001 144,850 145,005 145,005 145,005 145,005 145,005 145,005 144,983 144,983 144,970 144,864 144,983 144,983 144,983 144,983 144,983 144,983 144,983 144,983 144,983 144,983 144,983 144,983 144,983 144,983 144,983 144,983 144,983 144,983 144,983
Safe doors, operating, H. B. Tripp. Sample case, revolving, J. F. Randolph. Sap spout, H. B. Sever. Saw mill dog, E. H. Stearns. Saw mill dog, E. H. Stearns. Saw mill dog, E. H. Stearns. Saw mill head block, Prescott et al. Saw set, W. J. Boynton. Scraper, road, R. F. Read. Scraper, road, R. F. Read. Scraper, road, Warner & Kingsley. Seeder, broadcast, J. R. Scarborough. Seeding machine, M. Schnapp. Seeding machine, E. Witzigman. Sewing machine, E. Witzigman. Sewing machine, D. Porter. Sewing machine, O. St. Amant. Sewing machine caster, J. K. Proctor. Sewing machine extension table, J. Bennor, (r). Shovel, sifting, C. Kaestner. Signal, fog, G. C. Pattison. Signal, fog, G. C. Pattison. Signal, railway, E. R. Marshall. Skirt, skeleton, P. Lippmann. Sleigh brake, T. H. Bromley. Smoke consuming apparatus, W. B. W. Smith. Soda water tumbler nolder, J. Matthews. Spark arrester, G. Swenson. Spinning machine spindle, W. G. Perry. Spoke setting machine, W. R. Greene. Spring, door, F. H. Richards. Steel, manufacture of, C. M. Nes. Stoner, cherry, Buck & Kirk. Stove pipe stretcher, etc., G. Elsey. Strap coupling, T. Cagswell. Stubbleshaver and scraper, Von Phul, Jr. et al. Sulky, L. H. Jennison. Suspenders, T. J. Flagg. Table, troning, L. Scofield. Tablet, writing, C. N. Brown. Tan drying apparatus, N. Porter. Thrashing machine, J. Smith. Toy, automatic, A. H. Dean. Trap, fly, Packard & Standish. Truss, brace, H. H. Roedel. Umbrella, C. B. Spencer. Valises, etc., connecting frames of, C. Votti. Valve, A. Marriott. Varnish for wood, metal, etc., J. F. Chevaller. Veneer cutting machine, W. H. Williams. Vessels' booms, antifriction, H. Gregory, Jr. Vessels, center board for, J. Espalla. Wagon brake, E. N. Jack.	145,082 144,943 144,947 145,026 145,031 144,947 144,925 144,947 145,018 145,019 144,879 144,861 144,864 145,025 144,930 144,949 144,961 144,961 144,968 144,970 144,860 144,970 144,860 144,971 144,861 144,971 144,983 144,971 144,983 144,971 144,983 144,971 144,983 144,971 144,983 144,971 144,983 144,971 144,983 144,971 144,983 144,971 144,983 144,971 144,983 144,971 144,983 144,971 144,983 144,971 144,983 144,971 144,983 144,971 144,983 144,971 144,983 144,971 144,983
Safe doors, operating, H. B. Tripp Sample case, revolving, J. F. Randolph. Sap spout, H. B. Sever Saw mill dog, E. H. Stearns Saw mill dog, E. H. Stearns Saw mill dead block, Prescott et al Saw set, W. J. Boynton Scraper, road, R. F. Read Scraper, road, R. F. Read Seeder, broadcast, J. R. Scarborough Seeding machine, M. Schnapp Seeding machine, E. Witzigman Sewing machine, D. Porter Sewing machine, O. St. Amant Sewing machine caster, J. K. Proctor Sewing machine extension table, J. Bennor, (r). Shovel, sifting, C. Kaestner Signal, fog, G. C. Pattison Signal, fog, G. C. Pattison Signal, railway, E. R. Marshall Skirt, skeleton, P. Lippmann Sleigh brake, T. H. Bromley Smoke consuming apparatus, W. B. W. Smith Soda water tumbler nolder, J. Matthews Spark arrester, G. Swenson Spinning machine spindle, W. G. Perry Spoke settling machine, W. R. Greene Spring, door, F. H. Richards Steel, manufacture of, C. M. Nes Stoner, cherry, Buck & Kirk Stove pipe stretcher, etc., G. Elsey Strap coupling, T. Cagswell Stuble shaver and scraper, Von Phul, Jr. et al Sulky, L. H. Jennison Suspenders, T. J. Flagg Tablet, ironing, L. Scofield Tablet, ironing, L. Scofield Tablet, writing, C. N. Brown Tan drying apparatus, N. Porter Thrashing machine, J. Smith Troy, automatic, A. H. Dean Trus, fly, Packard & Standish Truss, brace, H. H. Roedel Umbrella, C. B. Spencer Valve, A. Marriott Valve, A. Marriott Varnish for wood, metal, etc., J. F. Chevaller Veneer cutting machine, W. H. Williams Veneer cutting machine, W. H. Williams Veneer cutting machine, J. B. Wardwell Wagon brake, E. N. Jack Wagon brake, E. N. Jack Wagon brake, E. N. Jack Watoh, stem winding and setting, E. J. Pacaud	145,082 144,943 144,947 145,026 145,081 144,947 144,925 144,973 145,019 144,879 144,968 145,019 144,874 144,949 145,002 144,941 144,949 145,002 144,949 145,002 144,949 145,002 144,949 144,949 144,950 145,005 144,970 144,864 144,970 144,874 144,983 144,970 144,874 144,983 144,970 144,874 144,874 144,878 144,983 144,983 144,983 144,983 144,983 144,983 144,983 144,983 144,988 144,984 144,988 144,988 144,988 144,988 144,988 144,988 144,988 144,988 144,988 144,988 144,988 144,988 144,988
Safe doors, operating, H. B. Tripp. Sample case, revolving, J. F. Randolph. Sap spout, H. B. Sever Saw mill dog, E. H. Stearns. Saw set, W. J. Boynton Scraper, road, R. F. Read Scraper, road, R. F. Read Scraper, road, Warner & Kingsley Scedeir, broadcast, J. R. Searborough. Sceding machine, M. Schnapp. Sceding machine, E. Witzigman. Scewing machine, E. Witzigman. Scewing machine, D. Potter. Scewing machine, O. St. Amant Scewing machine extension table, J. Bennor, (r). Shovel, sifting, C. Kaestner Signal, railway, E. R. Marshall Skirt, skeleton, P. Lippmann. Sleigh brake, T. H. Bromley. Smoke consuming apparatus, W. B. W. Smith. Soda water tumbler nolder, J. Matthews. Spark arrester, G. Swenson Spinning machine spindle, W. G. Perry. Spoke setting machine, W. R. Greene. Spring, door, F. H. Richards. Steel, manufacture of, C. M. Nes Stoner, cherry, Buck & Kirk. Stove pipe stretcher, etc., G. Elsey. Strap coupling, T. Cogswell. Stubble shaver and scraper, Von Phul, Jr. et al. Sulky, L. H. Jennison. Sulky, L. H. Jennison. Suspenders, T. J. Flagg. Table, ironing, L. Scofield. Tablet, writing, C. N. Brown. Tan drying apparatus, N. Porter. Thrashing machine, J. Smith. Trus, brace, H. H. Roedel. Umbrella, C. B. Spencer. Valises, etc., connecting frames of, C. Votti Varnish for wood, metal, etc., J. F. Chevaller. Vencer cutting machine, W. H. Williams Vessels' booms, antifriction, H. Gregory, Jr. Vessels, center board for, J. Espalla. Vise, adjustable bench, J. B. Wardwell. Wagon brake, E. N. Jack. Watch, stem winding and setting, E. J. Pacaud. Watch, stem winding and setting, E. J. Pacaud.	145,082 144,947 144,961 144,961 144,961 144,961 144,961 144,861 144,961 144,864 144,911 144,864 144,911 144,965 144,961 144,965 144,966
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APPLICATIONS FOR EXTENSIONS

Applications have been duly filed and are now pending for the extension of the following Letters Patent. Hearings upon the respective applications are appointed for the days hereinafter mentioned:

EXTENSIONS GRANTED

26,243.-WATER CLOSET BASIN.-W. Boch, Sr. 26,262.—JOURNAL BOX.—W. M. Ferry, Jr. 26,276.—INDIA RUBBER HOSE.—T. J. Mayall. 26,321.-METAL CASTING MOLD.-J. P. Broadmeadow. 26,327.—NURSING BOTTLE.—F. J. La Forme. 26.329.-Boot Tip.-N. Silverthorn.

DESIGNS PATENTED.

7,002.—Knife Handle.—J. D. Frary, New Britain, Conn 7,003.—Inkstand.—G. W. McGill, New York city. 7,004.—Ornamental Mat.—L. Moeslein, New York city

TRADE MARKS REGISTERED.

1,537.—EMERY.—Abbott & Howard, Boston, Mass. 1,538.-GUANO,-Guanahani Guano Co., Petersburg, Va. 1,539.—PLOWS.—Hunter & Co., Fredericksburg, Va. 1,540.—PEBFUMERY,ETC.—Felix Prot & Co., Paris, France 1,541.—CIGARS.—T. B. Slingerland, Rome, N. Y. 1,542.—CIGARS, ETC.—Consolidated Tobacco Co., Gilroy, Cal. 1,543.—Teas, etc.—Great Eastern Tea Co., Terre Hau

1,544.—ORGANS.—G. Woods & Co., Cambridgeport, Mass

SCHEDULE OF PATENT FEES.	
On each Caveat\$10	
On each Trade Mark\$25	
On filing each application for a Patent (17 years)\$15	
On issuing each original Patent\$20	
On appeal to Examiners-in-Chief	ı
On appeal to Commissioner of Patents\$20	l
On application for Reissue	l
On application for Extension of Patent	ı
On granting the Extension\$50	l
On fling a Disclaimer	l
On an application for Design (3½ years)	ı
On application for Design (7 years)	ļ
On application for Design (14 years)	Ì
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[Specially reported for the Scientific American.]

CANADIAN PATENTS.

LIST OF PATENTS GRANTED IN CANADA FROM NOVEMBER 25 TO DECEMBER 5, 1873

2,884.-T. W. Perry, Ringwood village, York county, Ontario. Composition of matter for a table sauce called "Perry's Indian Chutney Sauce." Nov. 25, 1873. ,885.—I. K. Proctor, Salem, Essex county, Mass., U. S., assignee of J. K. Proctor, Malden, Middlesex county, Mass., U. S. Improvement for sewing machine tables or stands, etc., called "Proctor's Caster Attachment for Sewing Machine Table, etc." Nov. 25, 1873. 836.—D. Saul, New Edinburgh, Carleton county,

rio. Improvement in hoisting machine, called "Saul's Improved Hoisting Machine." Nov. 25, 1873. 2,887.—W. M. Rice and A. D. Cable, Montreal, P. Q. Im-

provement in laying the permanent way of railways, called "Rice's Cushioned Rail." Nov. 25, 1873. 2,838.—T. Paxton, Wm. Tate and C. Paxton, Fort Perry,

Ontario county, Ontario, assignees of Wm. Dunn, same place. Machine for attaching to or connecting with gang plows, called "Dunn's Improvement on Gang Plows." Nov. 25, 1873. 2,889.—J. C. Schoonmaker, Kansas City, Jackson county,

Mo., U. S. Improvement on lightning rods, called "Schoonmaker's Insurance Lightning Rod." Nov. 28, 1873.

-W. W. Weaver, New Haven, Oswego county, N Y., U. S. Improvement on turbine wheels, called "Weaver's Volute Chute Turbine." Nov. 28, 1873.

2,891.—J. G. Loggins and T. P. Wilkins, Williston, Chittenden county, Vt., U. S. Improvement on machine for cutting the notch in wooden hoops for barrels, etc., called "The Hoop Locker." Nov. 28, 1873. 2,892.—C. Campbell, Montreal, P. Q., and J. A. Laemle,

Staten Island, U.S. Improvement on printer's fur-niture, called "Campbell's Improved Printer's Furniture." Nov. 28, 1873. 2,893.—Honorable H. Aylmer, Melbourne, District of St.

Francis, P. Q. Improvement on machine for cutting clapboards, called "Aylmer's Clapboard Machine." Nov. 28, 1873.

2,894.-G. Boucher de Boucherville, P. Q. Nouvelles maniere de se servir des lames pour propulser le navires, "Lame Moteur." Nov. 28, 1873. Improve-ment in "new paddles for propelling vessels."

2,895.-J. C. Livermore, Boston, U.S. Improvement on 2,888.—J. C. Livermore, Boston, U. S. Improvement on skirt protectors, called "The Oracoline or Dayton Skirt Protector." Nov. 28, 1873.
2,896.—H. Parker, Gananogue, Leeds county, Ontario. Improvement in the art or process of molding cores

and mold employed for casting the cores by such improved process, called "Parker's Improved Process and Mold for Casting Cores." Nov. 28, 1873.

,897.—J. P. Bass, Bangor, Penobscot, Me., U. S., assignee of H. C. Bucknam, Bricksport, Hancock county, Me., U. S. Improvement on the process or method of cleaning surface condensers, called "Bucknam's Pro-cess for Cleaning Surface Condensers." Nov. 28, 1873. 2,898.—F. H. Perry, Drummondville, Welland county, Ontario. Machine for washing textile fabrics, called "Perry's Hydraulic Washer." Nov. 28, 1873.

2,899.—Wm. C. Sillar, No. 1 St. Swithin's Lane, London Eng., R. G. Sillar, Lee, Kent county, Eng., and C. Rawson, No.1 St. Swithin's Lane, London, Eng. Improvement on deodorizing, purifying and utilizing wave night soil exercts and exerementitions and refuse matters, called " The Native Guano Company's Improvement on Deodorizing, Purifying and Utilizing Sewage, Urine, Night Soil, Excreta and Excremetitious and Refuse Matters." Dec. 5, 1873.

2.900.—S. Standish, Eureka, Lauder county, Nevada, U.S. Improvement on Brooms, called "Standish's Broom." Dec. 5, 1873.

2.901.-C. Stoner, Montreal, P.Q., assignee of I. Fisher. Boston, Mass., U.S. Improvement on mechanism for lighting gas burners, called "Fisher's Automatic Gas Lighter." Dec. 5, 1873.

2,902.-E. Moneau, San Francisco, Cal., U.S. Improvement on sewing machine, chiefly designed for embroi-dering and stitching button holes, called "The Eureka Button Hole Sewing Machine." Dec. 5, 1873.

903.—T. Baty, Westminster township, Middlesex county, Ontario. Useful fence, called "Baty's Farm Fence." Dec. 5, 1873.

2,904 .- I. Fréchette, St. Hyacinthe, P. Q. Ameliorations aux rateaux de moissonneuses, called "Rateaux de Moissonneuses Ameliorees." Dec. 5, 1873. Improvement on rakes for mowing machines.

2,905.—D. Heaton, Providence, R. I., U. S. Improvement in combination tools, called "The Imp." Dec. 5, 1873. 2.906 .- F. Rogers, Lvnn, Essex county, Mass., U.S. Improvement on the manufacture of shoes, called "Rog-

provements on sewing machines, called "Cole's Universal Feed Sewing Machine." Dec. 5, 1873. 2,908.—J. Miller, Perth, Lanark county, Ontario. Im-

provement on sewing machines, called "The Miller

provement on sewing machines, called "The Miller Sewing Machine." Dec. 5, 1873.
2,909.—J. H. Copping, Toronto, Ontario. Improvement on a machine for the rolling, printing and cutting of lozenges, called "Copping's Improvements on Lozenge machine." Dec. 5, 1972. machine." Dec. 5, 1873.

2,910.—H. J. Davies, Brooklyn, Kings county, N. Y., U.S. Improvements on machines for printing and embossing skirts and other articles, called "Davies' Machine for Printing and Embossing Skirts." Dec. 5, 1873.

2.911.-H. F. Knapp, New York, U.S. Improvements o means for raising and floating wrecks and sunken vessels, called "Knapp's Improved Means for Raising and Floating Wrecks." Dec. 5, 1873.

2,912.—J. Varney, Montreal. Improvement on washing machine, called "Varney's Washing Machine." Dec. 5, 1873.

-D.S. McKinnon, Carleton Place, Lanark county Ont. Improvement in sewing machine stands and covers, called "Mack's Sewing Machine Stand." Dec.

2,914.—P. D. Cummings, M. Smith and J. C. Jordan, all of Portland, Maine, U. S. Improvement in match slit-ting machine, called "Cummings, Smith and Jordan's

Match Slitting Machine." Dec. 5, 1873. 2,915.—T. A. Heintzmann, Toronto, Ont. Improvement

on planofortes, called "Heintzmann's Improved Bridge." Dec. 5, 1873. 2,916.—W. M. Fuller, New York, U. S. Improvement on heating apparatus, called "Fuller's Improved Heat'ng Apparatus." Dec. 5, 1873.

2,917.-M. Thibault, Hull, Ottawa county, P. Q, and S. Benoit, of Ottawa, Carleton county, Ont. Improvement on machine for cutting nails, called "Thibault's

Improved Nail Cutter." Dec. 5, 1873. ,918.— D. M. Lamb, Strathroy, Middlesex county, Ont.

Improvement on filters for oil and other liquids, called "Lamb's Combined Oil Filter." Dec. 5, 1873.
2,919.—D. M. Lamb, Strathroy, Middlesex county, Ont. Manufacturing and treating vulcanizable gum and hydrocarbon oils, called "Lamb's Gum and Oil Process." Dec. 5, 1873.

2,920.-D. M. Lamb, Strathroy, Middlesex county, Ont. Compound vulcanizable gum, called "Lamb's Vulcanizable Waterproof Gum." Dec. 5, 1873.

HOW TO OBTAIN $oldsymbol{IN}$ $oldsymbol{CANADA}.$

ATENTS are now granted to inventors in Canada, without distinction as to the nationality of the applicant. The proceedings to obtain patents in Canada are nearly the same as in the United States. The applicant is required to furnish a model, with specification and drawings in dupliaffidavit to the originality of the invention.

The total expense, in ordinary cases, to apply for a Canadian patent, is \$75, U.S. currency. This includes the government fees for the first five years, and also our (Munn & Co.'s) charges for preparing drawings, specifications and papers, and attending to the entire business. The holder of the patent is entitled to two extensions of the patent, each for five years, making fifteen years

If the inventor assigns the patent, the assignee enjoys all the rights of the inventor.

A small working model must be furnished, made to any convenient scale. The dimensions of the model should not exceed twelve inches.

If the invention consists of a composition of matter, samples of the composition, and also of the several in gredients, must be furnished.

Persons who desire to apply for patents in Canada ar requested to send to us (MUNN & Co.). by express, a model with a description in their own language, show ing the merits and operation of the invention, remitting also the fees as above for such term for the patent as they may elect. We will then mmediately prepare the drawings and specification, and send the latter to the applicant for his examination, signature, and affidavit. It requires from four to twelve weeks' time, after completion of the papers, to obtain the decision of the Canadian Patent Office. Remit the fees by check, draft, or postal order. Do not send the money in the box with model. Give us your name in full, middle name included Inventions that have already been patented in the United States for not more than one year may also be patented in Canada.

On filing an application for a Canadian patent, the Commissioner causes an examination as to the novelty and utility of the invention. If found lacking in either of these particulars, the application will be rejected, in which case no portion of the fees paid will be returned to the applicant.

Inventors may temporarily secure their improve ments in Canada by filing caveats; expense thereof, \$35

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DURATURA TA TITLA TA VALUE OF PATENTS. And How to Obtain Them.

Practical Hints to Inventors.



ROBABLY no investment of a small sum of money brings a greater return than the expense incurred in obtaining a patent, even when the invention is but a small one. Large inventions are found to pay correspondingly well. The names of Blanchard, Morse, Bigelow, Colt, Ericsson, Howe, McCormick, Hoe and others, who have amassed immense fortunes from their inventions, are well known. And there are thousands of others who have realized large sums from their patents.

More than FIFTY THOUSAND inventors have availed themselves of the services of Munn & Co. during the TWENTY-SIX years they have acted as solicitors and Publishers of the Scientific American. They stand at the head in this class of business; and their large corps of assistants, mostly selected from the ranks of the 27,297.—RAILEOAD CAR COUCH.—E. C. Knight. Feb. 11. ers' Improved Shoe." Dec. 5, 1873.

27,803.—FasteningSaw Handles.—J.Neimeyer. Feb. 11. 2,907.—J. L. and D. H. Coles, New York city, U. S. Im-