

MILLIONS OF PINS.

HOW THEY ARE MADE IN THESE DAYS OF MACHINERY.

An Interesting Manufacturing Process Which Originated in This Country and in Which We Are Still Pre-eminent

PIN making was one of the first mechanical industries which engaged the attention of our forefathers, for as early as 1775 the colony of Carolina offered prizes for native-made pins, and a factory was started in 1812, but failed. Twelve years later Mr. Lemuel W. Wright, a native of Massachusetts, was granted a patent in England for a pin making machine, but this, for some reason, was not introduced into the United States; and in 1842 Dr. John T. Howe, New York physician in charge of a hospital, whose convalescents occupied their time by making pins by hand, determined to introduce into America the manufacture by machinery of these small articles.

The ingots, or bars from which the pins are finally made, are cast in iron molds, and are about one and a half by three inches and six feet long, being a mixture of two parts copper to one part zinc. By continuous rolling and frequent annealing these bars are reduced to sheets about one-eighth of an inch thick, and then passed between rollers which slit them into small square strips ready for drawing. The process of drawing is well known, dies of different sizes being provided, and by continuous drawings and annealing the wire assumes the right diameter for pins.

When it reaches the pin department proper the wire must first be straightened, as on the small reels it takes a permanent set, which is not allowable in the pin machines. From the small reels it is wound to the standard pin machine reel, twenty-two inches in diameter, at the rate of over 1000 feet per minute, passing through a combination of horizontal and vertical straightening rolls, which effectually take out the kink and leave it ready for the pin machine. The reel is now placed on the rack beside the pin machine, and rollers draw the wire into the machine, where it is first cut off, then headed by three distinct blows, given by a cam and toggle.

The headed blanks are carried down on the surface of a vertical wheel, to horizontal disks below. Here they pass between the two disks and are revolved by one running much faster than the other, at the same time being moved to the left over revolving steel files, four in number, which make the points, finishing with an emery belt. These machines are speeded to make 160 pins per minute, and fifty machines work in one room. As these machines require practically no attention, they are run about fourteen hours a day, and the number of pins made, allowing for stoppages, will exceed 5,000,000 per diem, the aggregate weight being from 1200 to 1500 pounds, according to size; the different sizes varying in weight from 1100 to 18,000 to the pound.

The pins then travel to the tinning room, where they are tumbled with saw-dust for ten minutes to remove all oil and dirt, boiled for four hours with Banca tin, in a prepared solution, and after a bath of strong soap-suds to give them a smooth surface, a final tumbling with sawdust makes them ready for the sticking room. Once there, they are dumped into the hoppers of the sticking machines and thence pushed out by revolving fingers to an inclined bed with radial slots, or "runs," into which large numbers of the pins fall, some being caught by the head, others escaping through openings to a pan below to be replaced in the hopper at leisure.

The pins feed down these slots and drop in the "cutting-off" plate as it is moved slightly across the row, and when full the movement of a lever drives the small hammers down, forcing them into the paper, which is crimped at the same time and held for the sticking. These power sticking machines were designed by Mr. Naramore in 1884, and have as many runs as there are pins in the row, the ones for cut sheets having thirty pins to the row and twelve rows to the paper being used in this machine, the attendant sticking about 2400 sheets per hour.

Some of the sticking machines are adapted for the cheaper pins, which are stuck into continuous rolls at a rate of 100 rows a minute and cut up into the required lengths after leaving the machine. These machines need very little attention, filling the hopper and renewing the rolls being all that is required. About the only feature of the business which has not changed is the style of putting up the pins, the old numbers of fourteen rows of twenty each for cheaper pins and twelve rows of thirty each for the better grades still being used.

Fifty years ago when Mr. Joseph Naramore was a boy in the pin factory at Birmingham, Conn., the pins were put into the paper by hand, the creases being rolled in by a machine, and the pins and paper were taken home by the farmers to do evenings, being paid at the rate of six cents per dozen papers. Next came the hand machines, having a single slot or "run" in place of twenty or thirty, as are now used, and having a "cutting-off" plate and hammers much as in the latest machine, being operated by the levers at the side of the machine.

that two or more blows were necessary, and three has now become universally the practice.—Machinery.

An Athletic Piano Player.

London has had a new sensation in the 'amusement' line. A continental virtuoso named Berg has had an engagement at the Royal Aquarium, where he played the piano for thirty hours or more at a stretch. Berg is quite an athlete in appearance. He is tall and strongly built, and gets through his task with apparent ease. The conditions under which he plays require extraordinary powers of endurance and memory. There has to be no break in the music. He keeps his seat during the whole period of the task, playing with one hand while he feeds himself with the other. He drinks beer tea and eats light sandwiches at regular intervals and takes an occasional whiff of a cigarette. All the time one hand or the other is pounding the keys. Berg's repertoire is quite extensive and embraces many difficult pieces. Mendelssohn, Mozart, Beethoven, Weber, Schubert, glide one into the other, and sometimes the latest music hall ditties follow pathetic sonatas. Berg confesses to weariness at times during his performance and says he keeps up by sheer force of will. His selections number 400 and it is a great mental strain to remember them all. When he feels drowsy he drinks strong coffee or tea. He says he had no special training for the feat. He gave his first piano recital at the age of five, and had practiced ten hours a day regularly when not engaged in these exhibitions of endurance and skill.—Chicago Herald.

How Long is the Brooklyn Bridge?
From Park Row, New York, to Sands street, Brooklyn, the bridge is 2,830 feet long, or about one mile and a seventh; with the extensions the bridge is 5,537 feet, or nearly a mile and a quarter long. The river span is 1,592 feet, and on the Brooklyn side 971 feet, while the land spans of the bridge are each 930 feet long.

The "Disappearing Well."

The celebrated "disappearing well" is situated on a farm near Olympia, Wash. It was sunk in 1883, the workmen going down to a depth of twenty-three feet. About 1890 it was noticed that the platform was being gradually raised off the ground by the top layer of bricks, which had protruded above the ground, and before the end of the year had repeated the operation twelve different times, moving not less than two feet of the wall. Since the spring of 1891 the well has been entirely abandoned, the water having become unfit for use on account of some obnoxious gas escaping into it, and which can be smelled at a distance of 100 feet from the well. Since its abandonment nothing has been done towards removing the bricks which gradually, but surely, layer after layer, show themselves above the ground. At the present time the wall actually "sticks" out of the ground, like a huge circular chimney, its height above the surface being a few inches over ten feet. The bottom of the well is now only eleven feet from the surface, and it has been calculated that all the present rate of upheaval will actually rise to the surface level and entirely disappear by the end of 1893. Scientific inquiry proves that the phenomenon is of seismic origin and that it is really the showing of the lesser forces of an earthquake.—St. Louis Republic.

Disadvantage of Not Being Polite.

A want of politeness is a disadvantage at St. Petersburg, Russia. In one of the principal streets, writes our correspondent in that city, is a large fruit shop, belonging to a very wealthy merchant, who, besides selling fruit, keeps an elegant restaurant in the same building, and occupying a position directly behind the shop. Two young officers of the guard the other day entered, had lunch together, and, after paying their bill, both went out. They had, however, only proceeded a short distance when one of them missed his pocketbook and, thinking that he might have left it in the restaurant where he and his friend had lunched returned and asked politely if any one had seen it. The proprietor himself (a millionaire) came on the scene, and, after giving expression to some objectionable remarks, said that it might well be doubted whether the young officer possessed such an article as a pocket-book. The officer complained to the police and ultimately the matter reached the Prefect, who, regarding it as an insult to the Imperial uniform, caused the restaurant to be at once locked up, the doors sealed, and prohibits the proprietor from longer catering to the public taste.—London News.

The Highest Bridge.

The highest bridge of any kind in the world is said to be the Loo River viaduct, on the Antofagasta Railway, in Bolivia, South America. The place where this highest railway structure has been erected is over the Melo Rapids in the Upper Andes, and between the two sides of a canyon, which is situated 10,000 feet above the level of the rails, this celebrated bridge is exactly 635 feet in height. The length of the principal span is eighty feet, and the distance between abutments (total length of bridge) is 802 feet. The largest column is 314 feet two inches long, and the batter of the pier, which is known to bridge builders as "one in three." The gauge of the road is two feet six inches, and trains cross the bridge at the speed of thirty miles an hour.—Scientific American.

Strangulation and Hari-Kari Honorable.

The most honorable death in China is by strangulation, and high officials condemned to death receive their sentences from the Emperor in the shape of a silken cord with which they hang themselves. As recently as 1861 the Japanese Minister of Foreign Affairs solemnly disemboweled himself in the presence of his retainers because the Government refused to adopt his policy with regard to foreign residents.—Atlanta Constitution.

MY WIFE'S NERVES

Are weak and she suffers terribly from nervousness, headache and loss of sleep. Such is the testimony of many a man. The poor, tired woman is suffering from impure and impoverished blood. Her food does not digest. She is living on her nerves, her strength is gone. Her nerves and muscles

NEED STRENGTHENING

By the use of Hood's Sarsaparilla which makes pure, rich blood, creates an appetite, and gives tone to all the organs of the body. This is not what you say, it is what Hood's Sarsaparilla does. "My wife began taking Hood's Sarsaparilla about three months ago. She has been in poor health for 15 years. Hood's is doing her good. Her appetite is better, she looks better and there has been improvement in every way." J. W. BOEBA, Greenfield, Tennessee.

Hood's Sarsaparilla

Be Sure to get Hood's Cures

Hood's Pills are the best after-dinner pills, assist digestion, prevent constipation.

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DO YOU EXPECT To Become a Mother?
If so, then permit us to say that Dr. Pierce's Favorite Prescription is indeed, "Mother's Friend," FOR IT MAKES Childbirth Easy by preparing the system for parturition, thus assisting Nature and shortening "Labor." The painful ordeal of childbirth is robbed of its terrors, and the dangers thereof greatly lessened, to both mother and child. The period of confinement is also greatly shortened, the mother strengthened and built up, and an abundant secretion of nourishment for the child promoted.
Send for cents for a large book (168 pages), giving all particulars. Address, WORLD'S DISPENSARY MEDICAL ASSOCIATION, 603 Main St., Buffalo, N. Y.

PAINE'S CHILDBIRTH.
Mrs. FRED HUNT, of Glenville, N. Y., says: "I read about Dr. Pierce's Favorite Prescription being so good for a woman with child, so I got two bottles last September, and December 13th I had a twelve pound baby girl. When I was confined I was not sick in any way. I did not suffer any pain, and when the child was born I walked into another room and went to bed. I keep your Extract of Smart-Weed on hand all the time. It was very cold weather and our room was very cold but I did not take any cold, and never had any after-pain or any other pain. It was all due to God and Dr. Pierce's Favorite Prescription and Compound Extract of Smart-Weed. This is the eighth living child and the largest of them all. I suffered everything that flesh could suffer with the other babies. I always had a doctor and then he could not help me very much, but this time my mother and my husband were alone with me. My baby was only seven days old when I got up and dressed and left my room and stayed up all day."

WORLD'S FAIR HIGHEST AWARD!
"SUPERIOR NUTRIMENT—THE LIFE!"
IMPERIAL GRANUM
THE GREAT MEDICAL FOOD
Has justly acquired the reputation of being **The Savior for INVALIDS and The Aged.**
AN INCOMPARABLE ALIMENT FOR THE GROWTH AND PROTECTION OF INFANTS AND CHILDREN
A superior nutritive in continued Fevers. And a reliable remedial agent in all gastric and enteric diseases; often in instances of constipation over patients whose digestive organs were reduced to such a low and sensitive condition that the IMPERIAL GRANUM was the only nourishment the stomach would tolerate when LIFE seemed depending on its retention;—And as a FOOD it would be difficult to conceive of anything more palatable.
Sold by DRUGGISTS. Shipping Depot, JOHN CARLE & SONS, New York.

THE FARQUHAR, ENGINES AND BOILERS
Of all Styles from 4 to 800 horse power.

Send for Catalogues to A. B. FARQUHAR CO., Ltd., York, Pa. Catalogues sent every where. \$10 a year made nearly. Address: Automatic Griddle Co., Homestead, Pa.

'Tis Strange But True.

We read of strange happenings and results sometimes, like that of a man who was caught by a revolving wheel and so thrashed against floor and ceiling his body turned blue from the bruises. A doctor writes of a man who fell from a ladder and was covered with bruises. He, the doctor, applied St. Jacobs Oil; in the morning, he says, all the blue spots had disappeared. There is another way of feeling blue all over, and that is after the endurance of pains and aches for a long time without relief. Use the great remedy for pain at once; it will cure and change the color of your woes.

The New York Central ran a train 430 miles in 425 minutes, the best long distance run on record.

Dr. Kilmer's Swamp-Root cures all Kidney and Bladder troubles. Pamphlet and Consultation free. Laboratory: Birmingham, N.Y.

An electric locomotive was built in 1851 and exhibited at the Mechanics' Fair in Boston.

Karl's Clover Root, the great blood purifier, gives freshness and clearness to the complexion and cures constipation. 25 cts. 50 cts. \$1.

Mrs. Winslow's Soothing Syrup for children teething, softens the gums, reduces inflammation, allays pain, cures wind colic, 25c a bottle.

There are said to have been five suicides in five years in Divinity Hall, Cambridge.
Average cost of locomotives is \$9,000.

A Cure That Cures is the kind most people desire. Such a cure is Ripans Tablets, but not a cure for everything. They are for all liver and stomach disorders and other tubercular relief.
Sleeping cars average a cost of 15,000 each.
I can recommend Pine's Cure for Consumption to sufferers from Asthma.—E. E. TOWNSEND, Ft. Howard, Wis., May 4, 1884.

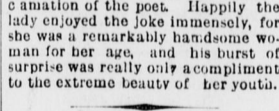
CORNER IN ELK TEETH.

A Montana Man Who Has More Than 80,000 of Them.
John D. Losekamp of Billings, Mont., practically holds the elk-tooth stock of the entire country, says Forest and Stream, and to his already enormous supply he is constantly adding, the Indians and hunters bringing teeth to him from all over the country. Not everyone knows that the elk teeth, or rather the tusks, of which only two are found in the mouth of the adult elk, have a practical commercial value. The teeth are used as jewelry, mostly as pendants and watch guards or as insigilia of the secret societies known as the Elks. The value of a tooth ranges from 50 cents to \$2.50, according to its size, color, and marking. Mr. Losekamp has now over 80,000 elk teeth deposited in safety vaults. Many of the old Indian dresses were highly ornamented with elk teeth, some of them being fairly covered with the teeth. Mr. Losekamp has lived on the frontier all his mature life and understands Indian trading perfectly, yet he has sometimes paid over \$100 for a single garment thus ornamented, caring of course for nothing but the teeth. The Indians drill the teeth to fasten them on their dresses and this does not injure the value of the teeth, but they have a much worse habit of sometimes staining the teeth a bright red. This dye cannot be extracted, and depreciates the value of the elk teeth for a white customer. The Indians do not dye the teeth so much now, since they have learned they can sell them for more in their natural state.

"What a Wreck!"
At a dinner-party at Bowdoin, Canon Bowles, then past sixty, was introduced to an elderly lady, with whom he sat chatting pleasantly about things of the day. Bowles was perfectly oblivious that this was the very lady to whom he had been engaged to be married when he had very little income besides his curacy. The lady, of course, was perfectly well aware that she was talking to her quondam lover; but her married name had in no way enlightened him as to her personality. After a time she said, having touched upon old days: "But, Mr. Bowles, don't you remember me?" "No, ma'am, I don't." Then she added, smiling: "You used to know me, and pretend to be very fond of me. I was Miss——" "Oh, what a wreck!" was the spontaneous exclamation of the poet. Happily the lady enjoyed the joke immensely, for she was a remarkably handsome woman for her age, and his burst of surprise was really only a compliment to the extreme beauty of her youth.

Necklace for a waite.
A large whale washed ashore on the coast of Labrador on Aug. 17 had a long anchor chain wrapped three times around his body. The anchor, which was still attached to the chain, weighed nearly a half ton.

The people pay more for love than for any other necessary evil on earth.



KNOWLEDGE

Brings comfort and improvement and tends to personal enjoyment when rightly used. The many who live better than others and enjoy life more, with less expenditure, by more promptly adapting the world's best products to the needs of physical being, will attest the value to health of the pure liquid laxative principles embraced in the remedy, Syrup of Figs. Its excellence is due to its presenting in the form most acceptable and pleasant to the taste, the refreshing and truly beneficial properties of a perfect laxative; effectually cleansing the system, dispelling colds, headaches and fevers and permanently curing constipation. It has given satisfaction to millions and met with the approval of the medical profession, because it acts on the Kidneys, Liver and Bowels without weakening them and it is perfectly free from every objectionable substance. Syrup of Figs is for sale by all druggists in 50c and \$1 bottles, but it is manufactured by the California Fig Syrup Co. only, whose name is printed on every package, also the name, Syrup of Figs, and being well informed, you will not accept any substitute if offered.

There is more Catarrh in this section of the country than all other diseases put together, and until the last few years was supposed to be incurable. For a great many years it has been pronounced a local disease, and prescribed local remedies, and by constantly falling to cure with local treatment, produced it incurable. Science has proven catarrh to be a constitutional disease and therefore requires constitutional treatment. Hall's Catarrh Cure, manufactured by F. J. Cheney & Co., Toledo, Ohio, is the only constitutional cure on the market. It is taken internally in doses from 10 drops to a teaspoonful. It acts directly on the blood and mucous surfaces of the system. They offer one hundred dollars for any case it fails to cure. Send for circulars and testimonials free. Address: F. J. CHENEY & CO., Toledo, O. Sold by Druggists, 75c.

KENNEDY'S MEDICAL DISCOVERY,

CHRONIC RHEUMATISM.

MONROE, IOWA, Nov. 25, 1894.
DEAR SIR, MR. KENNEDY:—In '64 I began taking your Discovery for Chronic Rheumatism; suffering so much pain till I used to call some one to sit on my limbs to lighten the pain. I had doctors for six years. No use. I then began with your Medical Discovery. The first bottle went to every joint and gave me pain. My husband said, "Keep on, till you see it spring the joints." So two and one-half bottles cured me so that I was able to walk two miles. Had not done it for six or seven years. I have kept it in the house ever since. I opened the 22d bottle today, for I take it instead of doctoring. I have never had a doctor since I have taken your Discovery. I am a widow 74 years of age, and a well woman.

Yours truly, MRS. ELIZABETH HILLS.

LLOYD, TEXAS, Oct. 5th, 1894.
DONALD KENNEDY, ROXBURY, MASS. KIND FRIEND:—I will now give you the particulars about my little girl. She was five years old the 2nd of last May. When she was less than a year old a kernel came under her right jaw on her neck. I asked the best doctor what to do, and he told me to grease it with old bacon grease, and it might rise and run which it did, and I tried everything, but it kept running for nearly two years. I came to Texas, and was at Aubrey, Texas, where I saw the present postmaster at Aubrey. I noticed his face had a bad scar, and I asked him the cause and how he got it cured. He said Scrofula was the cause and Kennedy's Medical Discovery cured it and if I would get some for my little girl it would surely cure her. I got one bottle and she was soon better. I picked white lumps out of her neck as big as peas, and almost as hard as a bone, and after being mashed up they looked like burnt bone crumbled up. In less than a week the swelling was gone, and had quit running. She is still taking it, but apparently she is as well as ever, and as gay as any child.

Yours truly, S. L. JACKSON.

CHICAGO, Oct. 15, 1894.
DONALD KENNEDY, DEAR SIR:—I know the worth of your Discovery, for three years ago, before I was married, I had the Catarrh in my head and throat very bad, and my mother, who always gave it to all of us, made me take three bottles, for which I am thankful to God, for it cured me and many others that we have recommended it to. MRS. ELLEN SEELEY, 217 39th St., Chicago.

FOR MOTHERS.

ELMIRA, N. Y., Oct. 25, 1894.
DR. KENNEDY, DEAR SIR:—I have taken your Medical Discovery all through my pregnancy, and our boy, now three months old is, and has been, in perfect health, while we have three other children, all of whom had eczema and sore mouths. Our attending physician speaks very highly of your Discovery.

Yours sincerely, MRS. G. W. HAMMOND.

HAUGHVILLE, IND., Nov. 21, 1894.
DONALD KENNEDY, DEAR SIR:—Your Medical Discovery has made a wonderful cure in a case of Dropsy of my neighbor, after four or five good doctors told him he could not get well. But your Discovery fixed him all right.

Yours truly, SAMUEL NUGENT.

ST. XAVIER, MONT., Nov. 12, 1894.
DR. KENNEDY, DEAR SIR:—I must inform you of the good effects of your famous Medical Discovery. One lady who was much afflicted with a constant Malarial Trouble declared herself relieved in a few days, and was entirely cured in a few weeks, and this is only one of many.

Yours gratefully, SISTER M. MAGDALEN.

KIDNEY TROUBLE.

NEW YORK CITY, May 9th, 1894.
DONALD KENNEDY, DEAR SIR:—In using your Medical Discovery I find it good for the general system and especially for the Kidney Trouble. And the reason I can speak for it is this: After coming from South America, in 1880, I was troubled with my back, which the doctors claimed was Kidney Disease. After using many different medicines—and I might just as well have drunk cold tea—I bought two bottles of Kennedy's Medical Discovery, and took it according to directions as given in your book, and my kidneys have not troubled me since.

Yours with thanks, CHAS. W. ALLYN, 26 East Fourth Street.

PRICE, \$1.50 PER BOTTLE, LASTING IN REGULAR DOSES, ONE MONTH.

SOLD EVERYWHERE AT LOCAL STORES AND BY EVERY WHOLESALE DRUGGIST IN THE U. S.

MANUFACTURED BY DONALD KENNEDY, ROXBURY, MASS.

SEND POSTAL CARD FOR BOOK.

Improved Revolver.

The new German revolver is not really a revolver at all, but it is a wonderful repeating pistol all the same. All you have to do is to drop eight cartridges into a magazine in the stock and then pull the trigger as often as you want to shoot until the ammunition is exhausted. The recoil of the shot when the pistol is first fired sets in motion mechanism which ejects the shell just fired, brings up a new one to the barrel, cocks the pistol, and locks the movable parts. Another touch on the trigger repeats the operation, and the eight charges have been fired in two seconds.

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Treat Your Stomach Well;

It's the driving wheel of the human machinery. Good wholesome food is what the stomach wants—nothing else. A suggestion for to-morrow's breakfast.

Hecker's BUCKWHEAT CAKES. Ready for the table at a moment's notice. LIGHT, DAINTY, DELICIOUS.



She is rather good looking But lacks sense! She dissipates A Rhinopines On her tongue Instead of Swallowing it whole. It does its work Elbow way. But the last is the way intended, Nevertheless.

LINEE COLLAR The "LINEE" are the Best and Most Economical Collars and Cuffs worn; they are made of fine cloth, both sides finished alike, and hence reversible; one collar is equal to two of any other kind. They fit well, wear well and look well. A Box of Ten Collars or Five Pairs of Cuffs for Twenty-Five Cents. A Sample Collar and Pair of Cuffs by mail for Six Cents. Name style and size. Address: REVERSIBLE COLLAR COMPANY, 77 Franklin St., New York. 27 Eddy St., Boston.

WALL ST. NEWS LETTER of value sent FREE to readers of this paper. Charles A. Baldwin & Co., 40 Wall St., N. Y.

PHYSICIAN'S BERRY TREATMENT For Croup, Asthma, Croup, etc. Our Latest and the best is sent Free and is well worth reading. Treatment by mail. Agents: J. S. Pennon Bureau, 101 Arch St., Philadelphia, Pa. Business Established in 1825.
DENISION JOHN W. MORRIS, Washington, D. C. Successfully Prosecutes Claims. Late Philadelphia and U. S. Pension Bureau. System last year, 15 adjudicating claims, fifty placed.
Wanted—Agents for Safety Odorous Betsches. The best article in the market for agents to make money selling. One agent reports 30 sold the first day another 25 in two days another 17 in ten days. Send 25c stamp for circular. H. H. V. & Co., Cincinnati, O.
NEWS LETTER of value sent FREE to readers of this paper. Charles A. Baldwin & Co., 40 Wall St., N. Y.

Be on Guard against imitations of Pearlina. When they are not dangerous, they are worthless. They are usually both. Pearlina does what nothing else can. It saves labor in washing, and insures safety to what is washed. It is cheap, thorough and reliable. Nothing else will "do as well;" it is just as well to have nothing else. Peddlers and some unscrupulous grocers will tell you "this is as good as" or "the same as" Pearlina." IT'S FALSE—Pearlina is never peddled, and if your grocer sends you something in place of Pearlina, do the honest thing—send it back. 254 JAMES FYLE, New York.

"Cleanliness is Nae Pride. Dirt's Nae Honesty." Common Sense Dictates the Use of SAPOLIO