SURFACE HUNG MANHOLE ROLLER WITH PLATFORM
Installed from the street. When properly installed, the lower "V" of the roller should be at the top of the sewer pipe so the cable does not snub as it comes out of the sewer; yet high enough to permit free bucket passage. By means of a measuring rod this distance can be determined from street surface. Add sufficient extension pipe to the roller yoke to drop roller into proper position. Place platform firmly under legs of bucket machine. Lower assembly and fasten extension pipe in chain pipe vise holder.
Note chain vise pipe holder. Easily adjustable to pipe sizes or to grip pipe couplings.

SURFACE HUNG YOKE AND ROLLER
Available in 8", 12" and 15" sizes. All use 2" I.D. standard steel pipe. Extra wide flange to accommodate larger buckets. The pull strain is at 45 degrees to prevent strain on the pipe threads.
(Roller with yoke unit only does not include platform. Front side mount. Pipe furnished by purchaser.)

C. A. PIPE SCAPER
A collapsible, adjusting heavy-duty tool for breaking up hard deposits (boiler scale, saline deposits, hardened refining clays, etc.) The right tool to remove any deposit that must first be broken from the pipe wall.
Available in three sizes: small — for 8" to 16" pipe, inclusive, with two sets of blades; medium — for 10" to 22" pipe, inclusive, with three sets of blades; large — for 22" to 36" pipe, inclusive, with two sets of blades.

CULVERT SCAPER
Designed especially for storm drains and culverts (8" thru 36") where water is scant or unobtainable for flushing. Equally good for badly obstructed sewers where most of the deposit is of a sand or gravel nature.
4. Special Tools and Accessories

ALL STEEL WINCH
Perfect for plants and industrial complexes where bucket machines are too large to be used.

WEIGHT: The winch weighs (less the legs) only 198 lbs., but has more tensile pulling strength than a cast iron winch weighing 720 lbs. It can be easily loaded on your truck or trailer by two men.

CAPACITY: The cast steel drum holds 750 feet of 3/8" cable.

HAND BRAKE: To be used when free spooling, for holding tension, lowering equipment into manhole, etc.

LEG: Two-inch standard pipe size (not furnished with the winch). You can get these cut by your water department to exactly thirty inches or buy the same from your local pipe dealer.

CHAIN SPROCKETS: The all steel winch uses roller chains and sprockets, instead of gears, for power linkage. This construction permits a more compact unit, giving maximum easy turning power. Fast throw out collar for drum free spooling.

HANDLE: Swivel handles make hand turning easy.

FRAME: Steel welded construction, heavy 4" channel base rigidly cross ribbed to prevent distortion and bind under heaviest loads. Rabbeted split type link belt pillow blocks are used throughout. Chains and sprockets guarded to conform to all safety requirements. Convenient hand holds for easy handling at each end of frame.

MANHOLE LIFTER
New easy lift, long handled manhole cover remover is designed for greater leverage and safety. Helps prevent injuries and permits lifting of heavier covers. Various hook designs are available for all type manhole covers.

WINCH, POWER-DRIVE, AND UNIVERSAL POWER TAKEOFF
Eliminates hand cranking. One end of the power take off keys to the power drive turning shaft, and the other end engages the handle stud of the winch. With the power in low speed, turning on the 25 to 1 Ratio, 10,000 pounds pull can be developed.

SAND TRAPS
Always use a sand trap when cleaning a line. When sand builds up to the level of the top of the sand trap, stop operations and remove sand from manhole.

For pipe sizes 6" thru 18".
"Working our Flexible bucket machines every day sure beats making emergency calls."

Frank J. Stoma, Superintendent, Sanitary Sewer and Storm Drain Maintenance Division, Grand Rapids, Michigan.

Grand Rapids, Michigan, has an effective preventive maintenance program for over 1200 miles of lines. By scheduling continuous use of Flexible equipment, the city keeps ahead of possible emergencies.

Modification of a Truck-Loder bucket machine for operation with two buckets solved a problem for handling a 94" x 86" line. It cut cleaning time from 44 working days to 8 working days. Experienced crews added to the efficiency of the operation.

Five years of use under all kinds of conditions have proven the reliability of these Flexible machines and the economy of mechanical sewer cleaning methods.

For help in choosing pipe cleaning equipment best suited to your needs - sewer, water, telephone ducts or gas lines - write: Flexible Pipe Tool Division, Rockwell Manufacturing Company, 415 S. Zangs Blvd., Dallas, Texas 75208. In Canada: Francis Hankin & Co., Ltd., Montreal, Toronto, Calgary.
GENERAL PROCEDURE FOR ALL POWER DRIVE MODELS 
TO PREVENT ROD WHIP

The common practice is to drive two steel bars or pieces of pipe about 1 in. 
diameter at right angles into the ground at the street surface where rods enter 
the trench. This prevents the rods whipping as the rods are held down under the 
triangle formed by the steel bars or pipe.

For speed where a large amount of 
footage is to be done, we recommend 
that the user can make three or four 
horses as described at left. The rods 
can then be coupled in 30-to 40 ft. 
lengths before needed, which saves 
a great deal of time, and this distance 
can be cleaned without coupling and 
uncoupling. CAUTION: A leather or rubber 
lining should be nailed into a 2 inch 
hole bored through the two halves of 
the 2"x1"x1" wood pieces, as illustrated 
at left, (see BORE 2" HOLE). Horses are 
removed from the rods one at a time as 
the machine approaches the trench.

WATER FLOW WHILE CLEANING

Run about 1/4 pipe of water while cleaning to keep the tools and rods cool and to wash 
out cuttings. Too much water retards cutting. No water burns the tools. Many operators 
after a short while do not dis-connect meters, claiming the slight plumbing problems 
that follow do not warrant it. Our advice is to at least close meters for the first few 
runs and then use your best judgment.

WORK AGAINST FLOW

Work against the flow and continue to rotate the tool in withdrawing to bring out 
all cuttings. Reverse water flow when working in opposite direction, from the same 
cut to save street cuts. Keep the trench well pumped to prevent cuttings from 
collecting in the pipe while cleaning. Insert a pipe plug in discharge end of pipe 
to keep it clear.

FLUSHING AFTER CLEANING

After the line has been cleaned, by increasing the flushing water slowly to full 
force, you will find little inclination for the grit to lodge in service lines. It 
is with this technique properly developed that occasions no necessity to disconnect 
meters. You will learn each day by trial and error. The time, effort, and expense 
of gaining such knowledge is trivial compared to the expense saving benefits 
obtained.
I. FLEXIBLE HAND RODDING EQUIPMENT IS EASY TO OPERATE:

1. First determine the depth of the manhole by connecting lengths of 1 1/2" pipe to the Flexible Rod Guide so that its bell rests in the down flow pipe and the 1 1/2" guide pipe extends two or three inches above the manhole rim in a slanted position.

2. Set the Flexible EZY Rod Reel about 30 feet behind the working position at the manhole, remove rods and insert them to the proper depth in the 1 1/2" pipe and Rod Guide. Attach a proper size Corkscrew to the rods.

3. Lower the Rod Guide so that the bell part of it will enter the down stream pipe with the Corkscrew. When in position, push the rod down with one hand holding the guide in the other until the tool has been pushed a few feet into the pipe. Then shake the guide into a tight position and lock it with the Rod Guide Jack firmly against the manhole rim. If it will not become secure, the bell is not far enough in the pipe.

4. One man can then push rods into the guide pipe at the manhole while the other pulls them from the EZY Rod Reel. If the line is relatively clean, two men will have no difficulty pushing the rods to the down stream manhole.

Any obstruction will make the rods too hard to push and turning will become necessary. When this occurs, uncouple the rods at the reel. Engage two Rachet Turning Handles, on the rods with the pin and spring of the handles toward the manhole. Have two men rotate the rods by taking alternate strokes with the handles. A third man at the manhole controls the speed of the rotating rods entering the line a section at a time by engaging the Pull-out Tool behind a coupling and pushing.

Turn the rods into the obstruction until a reasonable amount of tension builds up. Pull back by reversing the Pull-out Tool on the coupling and when the obstruction is loosened, the water level will drop in the manhole. Rods can then be pulled out and another cleaning tool can be attached for a final cleaning run.

See pages 9 and 10 for details.
Flexible

MAKES TOOLS AND MACHINES
TO CLEAN ANY SIZE PIPE
FROM 1/2 INCH TO 35 FEET IN DIAMETER

FLEXIBLE WILL BUILD A MACHINE TO DO ANY JOB

I. FLEXIBLE HAND RODDING EQUIPMENT IS EASY TO OPERATE:

1. First determine the depth of the manhole by connecting lengths of 1\(\frac{1}{2}\)" pipe to the Flexible Rod Guide so that its bell rests in the down flow pipe and the 1\(\frac{1}{2}\)" guide pipe extends two or three inches above the manhole rim in a slanted position.

2. Set the Flexible EZY Rod Reel about 30 feet behind the working position at the manhole, remove rods and insert them to the proper depth in the 1\(\frac{1}{2}\)" pipe and Rod Guide. Attach a proper size Corkscrew to the rods.

3. Lower the Rod Guide so that the bell part of it will enter the down stream pipe with the Corkscrew. When in position, push the rod down with one hand holding the guide in the other until the tool has been pushed a few feet into the pipe. Then shake the guide into a tight position and lock it with the Rod Guide Jack firmly against the manhole rim. If it will not become secure, the bell is not far enough in the pipe.

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See pages 9 and 10 for details.
Flexible
INSTANT REVERSE POWER DRIVE

A SHIFT OF THE SAFETY LEVER REVERSES ROTATION OF RODS!

Speeds cleaning as a quick reverse will corkscrew the tool out of a tough stoppage quickly. Also, an occasional quick reverse tends to keep the rods on top of sand.

Mechanical Features:
1. SAFETY LEVER CONTROL—One handy lever controls starting, stopping, and direction of rod rotation.
2. HANDY OPEN TOOL BOX.
3. EASY TO PUSH AND MANEUVER.
4. HOLLOW ROD SHAFT—A string of rods can extend through the machine.

PATENTS: 2,505,277 and 2,884,796

Engine Features:
1. Briggs & Stratton 4 cycle, 3 h.p. air cooled engine.
2. Built in 6 to 1 reduction.
3. Automatic governor.
4. Oil Bath Cleaner.
5. Shock-free starter.

REGULAR POWER DRIVE

Same general features as PD-50-RL except there is no quick reverse feature.

HOW TO USE POWER DRIVES

After setting up stand 30 feet behind manhole and installing Rod Guide as described on page 29, push rods into sewer until obstruction is reached. Disconnect rods from reel and connect last coupling to Speedi-Chuck, as described below. If your Power Drive is equipped with pin and spring, insert coupling pin making sure spring engages locking slots on pin. As illustrated, the man at manhole pushes rods into the line while the Power Drive operator controls rotation, advancing slowly. While the rods are rotating, keep them moving in or out of the line using a Pull-Out Tool. Never grasp rods with either bare or gloved hands.

SPEEDI-CHUCK

OPTIONAL EQUIPMENT ON ALL FLEXIBLE POWER DRIVES. Speedi-Chuck can be installed on any Power Drive now in use, for 5/16" rods.

A speedy connection for engaging a string of rods to the Power Drive.
To use: 1. Pull Back Collar. 2. Insert Couplings. 3. Grooved Coupling makes instant positive connection. 4. To disengage, pull back Collar.

Shown installed on PD-50-RL above
PATENT PENDING
ADVANTAGES
1. Truck is freed for other jobs!
2. Fully loaded it can easily be pushed into place, on the job, by hand!
3. Light in weight so that it tows easily, at legal speeds, behind any car or truck!
4. Designed to carry a complete “Flexible” unit, including Power Drive, plus ample space for auxiliary equipment such as: Hose, Picks, Shovels, Buckets, Barricades, etc.
5. Eliminates returns to the yard for forgotten tools. These savings alone, plus Lost Tools, will more than pay for the Trailer in one year.

SPECIFICATIONS
1. Angle steel frame heavily reinforced.
2. Mounted on two 670 x 15 pneumatic tires.
3. Swivel front rubber wheel for easy positioning.
4. Heavy Springs for fast easy trailing.
5. Adjustable towing tongue.
6. Solid Mounting Brackets for EZY Rod Reel and Stand.
7. Easy loading platform for Power Drive.
8. Large waterproof Tool Box with lock hasp.
9. Open tool box for bulky equipment.
**FEATURES**

- Uses truck motor power take off or self powered with 20 HP motor with 12V starter and alternator. 25 and 35 HP motors available at extra cost.
- Maximum reel capacities up to 2,000 feet of 3/8, or 1,500 feet of 3/4, or 1,200 feet of .461 diameter continuous spring steel rod.
- Drive head and reel mounted together in a single balanced two point bearing suspension carriage rotating on the same longitudinal axis.
- Lateral rod speed is independent of reel rotation.
- Spring loaded safety overload clutch.
- Straight line push-pull rod action prevents spiral set in rod.
- Pull Power up to 10,000 lbs.
- Instant reversing transmission develops speeds up to 230 FPM.
- Reel rotation up to 150 RPM—instant stop self-energized reel brake.
- Two footage meters.

**SIX DRIVE ROLLERS**

For all continuous rod machines. Roller pinion drive gears mounted outside of roller head prevents wear from sand and mud.
Flexible Working Tools

5/16" ROUND STOCK CORKSCREWS

These smaller sizes are invaluable in many places. For instance, in storm drains where mud cannot be moved, if a small hole can be bored through and the water begins to run through even a small hole, it will soon "soup up," and then, by flooding and working through the next size, and then the next, the drain can be entirely opened.


SPEARHEAD

The first tool to use in breaking up bottles, punching holes in cans. For small pipes with hard deposits, etc.

SIZE: 1 1/6" O.D. No. SP-1

DOUBLE CORKSCREW

For picking up and pulling out roots, rags, cans and other obstructions. This tool has much greater prong pulling strength than the Round Stock Corkscrew.

SIZES: 3" O.D. No. CS-7 4" O.D. No. CS-8 5" O.D. No. CS-9

SAND CORKSCREW

SIZE: 3" O.D. No. CS-6

SAND LEADER

SIZE: 3" O.D. No. SL-1

SAND CORKSCREW and SAND LEADER

It takes time and patience to bore through a sand line and there are many different types of sand. Some pack hard, some loose, the weight per cubic foot varies considerably. No one tool is best for boring through. The Sand Corkscrew is successful in many cases. In others the Sand Leader works faster. Note the hole near the point on the Sand Leader for bringing back Bucket Machine Cable.

FOR PIPE SIZES: 4" No. CS-11 6" No. CS-14
3" No. CS-10 5" No. CS-13 6" No. CS-15 7" No. CS-16

AUGERS

We have found the Augers to be most satisfactory in removing sand with aid of the Sand Cup, as shown on page 8. When rotating, the Auger has the same effect as a spade turning dirt over. This tool is also used where long stringy roots are encountered because it has a cutting edge on the front and back, and while the auger is rotating, it cuts its way into the root. We have also found this tool to be very practical in removing grease from a line. All our operations for the removal of roots and sand are worked with the flow of the water; but with grease, we have found it better to work from the lower manhole against the flow, allowing the grease to flow downstream.

FOR PIPE SIZES: 3" No. A-1 5" No. A-3

SQUAREBAR CORKSCREWS

Many cities, with only roots, hard grease and paper clogs to contend with, will need only Cork Screw Tools for 6-inch and 8-inch pipe. We consider these our best all-service tools. The use of this tool is described on page 3, Operation No. 3. These tools are made from Special Alloy High Carbon Tool Steel, too heavy and too tough to break. On the back top edge, concealed from harm, is a keen slanted cutting edge that cuts when the tool is pulled back.
SELECTO-BLADE—3 BLADE CUTTER

One Chuck Assembly and a set of blades for each size pipe from 4" up to 18", provides an efficient cutting tool at a nominal cost. Particularly recommended as a pull back tool. Can be quickly converted to a two blade cutter, by using the separator shown below.

CHUCK ASSY. COMP., LESS BLADES, Cat. No. 50-1

SELECTO-BLADE SETS
FOR PIPE SIZE
4" SD-3-4 SET OF 3 BLADES
6" SD-3-6 SET OF 3 BLADES
8" SD-3-8 SET OF 3 BLADES
10" SD-3-10 SET OF 3 BLADES
12" SD-3-12 SET OF 3 BLADES
14" SD-3-14 SET OF 3 BLADES
15" SD-3-15 SET OF 3 BLADES
16" SD-3-16 SET OF 3 BLADES
18" SD-3-18 SET OF 3 BLADES

SELECTO-BLADE—2 BLADE CUTTER

To use 2 blades in the chuck instead of three merely substitute the 2 blade separator.

RATCHET TYPE—Cat. No. 50-10

SELECTO-BLADE SOCKET WRENCHES

STANDARD TYPE
Cat. No. 50-7

ROOT SAWS

With coarse saw teeth on front and back edges of the blade, the Root Saw seems to be the answer to many stubborn root problems. Work it against the flow and it cuts roots to the consistency of shredded kraut. The Root Saw is not intended to EVER BE TURNED LEFT. Anything it will saw into, it will saw out of on a pull back.

MUST BE ROTATED BY POWER EQUIPMENT

HEAVY DUTY: 3" No. RT-0XX 8" No. RT-2X
(As Illustrated) 4" No. RT-0X 10" No. RT-3X
6" No. RT-1X 12" No. RT-4X
3" No. RT-01 8" No. RT-4
REGULAR: 4" No. RT-0 10" No. RT-3
6" No. RT-1 12" No. RT-4

PICK-UP TOOL (as used)

Used to retrieve a string of rods that might become lost in the line. The wide hook, as shown, will always contact the rods. A few turns will wind the rod to the center of the tool, where the diameter is smaller than the coupling. A pull hooks the tool against the coupling.

No. PU-1 Patent No. 2,249,254

25
ROUND ROD PULLER

CLOSED

OPEN

No. PT-3

This tool grips the rods at any place in the line and does not depend on the coupling as a pull stop. It is better for short bites in hard pulling when roots are heavy or when in heavily sanded lines. It cannot be used as a pusher or puller when rods are being turned.
FOR LIGHT CLEANING JOBS
Turning the Porcupine on a string of rods can often restore the Normal Flow quickly and simply. It is a good tool when deposits are light. (For medium or heavy deposits use Bucket Machines). To remove sand or silt, use water from a fire hose and work with the flow. Bristles churn deposits and jetting water washes them down the line. Grease and small roots can also be removed with the Porcupine.

AS A FINISHING TOOL
The Porcupine is made to the exact i.d so that it will clean the pipe to original capacity. Other cleaning tools such as Corkscrews and Buckets are undersized so that by using them for the heavy work and following with a Porcupine, you do a thorough cleaning job.

PULL TYPE PORCUPINES
For Use with Bucket Machines

For pipe sizes:
6" No. TP-1
8" No. TP-2
10" No. TP-3
12" No. TP-4

Can Also Be Used As A PULL TYPE
A shackle comes with the Turn Type Porcupine to replace the adaptor rod used for turning. (See illustration at left.)

TOUGH LONG LASTING BRISTLES
Bristles
Not A Mere Swab!

Bristles have plenty of scouring action. The 49 wire cable will not flatten out after a few passes through the sewer, as is the case with single wire bristles. When they are worn, the bristles can be replaced individually, or bristle plates can be changed.
Flexible MANHOLE LIFTER

Stuck manhole covers can now be lifted in a matter of minutes with the Flexible Manhole Lifters. Ask your representative for a demonstration.

For lifting covers below surface, corroded, frozen and other tough lift problems.

NEW • E-Z-LIFT • LONG HANDLED MANHOLE COVER REMOVER. Designed for greater leverage and safety ... prevents injuries and permits lifting of the heavier covers.

SAND TRAPS

When cleaning a line, always use a Sand Trap, placing same as shown below. When working roots, open the gates; and close them for sand. When sand builds up to level with the top of the Sand Trap, stop operations and remove sand from manhole.
Flexible C. A. PIPE SCRAPERS

A HEAVY DUTY TOOL FOR HARD DEPOSITS

SMALL C.A. PIPE SCRAPER
No. CA-1 For 8" to 16" pipe, inclusive, with two sets of blades.

MEDIUM C.A. PIPE SCRAPER
No. CA-2 For 10" to 22" pipe, inclusive, with three sets of blades.

LARGE C.A. PIPE SCRAPER
No. CA-3 For 22" to 36" pipe, inclusive, with two sets of blades.

Breaks Up Boiler Scale — Saline Deposits — Hardened Refining Clays

An excellent tool to remove any deposit that must first be broken from the pipe wall. Especially valuable for cleaning lines in and around oil refineries.

Effective for Hard Deposits Because:
1. Independent blade mounting on arms of spring steel cause blade oscillation which greatly increases cutting action.
2. It is almost impossible to stick or catch on rough joints

in the pipe because of the pitch of the blades and the independent spring action. The tool collapses on reverse pull so that if it does become stuck, it can be easily freed for another try.

3. Independent blade mounting permits the tool to work irregular shapes of pipe.

GOUGER BLADES (not illustrated)—When lines are considered past saving try Gouger Blades first. Replacing regular blades, they rip and cut the hardest deposit. Follow with regular blades to remove balance of material. See price list for size assortment.

"FLEXIBLE" HI-WAY CULVERT SCRAPER
For 8" to 36" Culverts or Storm Drains

Designed especially for storm drains and culverts where water is scant or unobtainable for flushing. Equally good for badly obstructed sewers where most of the deposit is of a sand or gravel nature.

Fool Proof: The scraper will always pull into the load in a collapsed manner. However, the twist of the cable might tend to turn the scraper bottom side up on the pull out, but on account of the compound leverage action, which opens the scraper in any position, the pull-out will make no difference in the removal of the load. Cable Swivel, page 39, is recommended.

Don't try to pull too large a load—The nature of the deposit will determine how much can be removed at one pull. More rock and gravel can be pulled than a finely packed sand. Measure your pull in by tying a string or wire around the cable for your distance mark. If you stick, pull back and forth a very short distance, but do not pick up more load until it is free to pull out.

FOR PIPE SIZES:

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<th>Size</th>
<th>No. HS-1</th>
<th>10&quot;</th>
<th>No. HS-2</th>
<th>20&quot;</th>
<th>No. HS-3</th>
<th>12&quot;</th>
<th>No. HS-4</th>
<th>16&quot;</th>
<th>No. HS-5</th>
<th>24&quot;</th>
<th>No. HS-6</th>
<th>18&quot;</th>
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<th>28&quot;</th>
<th>No. HS-8</th>
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<tr>
<td>8&quot;</td>
<td>No. HS-1</td>
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</table>

Making Up the Load

Pulling out the Load
PRICE LIST

"FLEXIBLE" SEWER BALLS

MARCH 1, 1968

INFLATABLE BLADDERS

Cat. No. 1B-1 6" Size $3.20
Cat. No. 1B-2 8" Size $4.10
Cat. No. 1B-3 10" Size $5.20
Cat. No. 1B-4 12" Size $6.10

Built in swivel rod prevents ball turning over in the line.

For customers who insist on a ball with an inflatable bladder, we can furnish ordinary Play Balls that will fit inside our ball. These can be easily repaired or replaced at a portion of the cost of a new Sewer Ball.

BALL TYPE

Manhole Jack

BMT-1 Price $41.50

For balling operations only. Easily lowered into manhole by rope. Points securely contact manhole walls.

HARNESS SEWER BALL

A heavy duty fabricated rubber ball with wire rope harness. Not Puncture Proof

Water Proof Swivel Rod available as illustrated.

BSR-1 Price $10.75

SEWER BALL HAZARDS

"Flexible" cannot conscientiously offer Sewer Balls without mentioning the hazards in their use. It is for the customer to determine whether the "claimed" advantages outweigh the hazards:

1. Balling puts water pressure on sewer joints. Loose joints and infiltration of sand can result. It is claimed that sewer infiltration is the cause of many caved in streets.
2. Low basements can be flooded and lawsuits could result.
3. Considerable water is wasted in propelling the ball.
4. If the line is plugged, considerable time can be lost attempting to unplug it by balling.

FLEXIBLE PIPE TOOL DIVISION
ROCKWELL MANUFACTURING COMPANY
415 S. ZANGS BLVD., DALLAS, TEXAS 75208
1085 SPENCERVILLE ROAD, LIMA, OHIO 45802
6029 SLAUSON AVE., CULVER CITY, CALIF. 90232

PRICES SUBJECT TO CHANGE WITHOUT NOTICE